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ACRONYM LIST

AMSL	Above Mean Sea Level
AST	Aboveground Storage Tank
BGS	Below Ground Surface
CSA	Comprehensive Site Assessment
CW	DOEE Tier 1 Risk-Based Soil Screening Levels for Construction Worker Surficial Soil – Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact
DCRBCA	District of Columbia Risk Based Corrective Action
DDOT	District of Columbia Department of Transportation
DOEE	Department of Energy and Environment
DRO	Diesel Range Organics
ESA	Environmental Site Assessment
GRO	Gasoline Range Organics
I	Hydraulic Gradient
K	Hydraulic Conductivity
MCL	Maximum Contaminant Level
NELAC	National Environmental Laboratory Accreditation Conference
NPDWR	National Public Drinking Water Regulations
OVA-PID	Organic Vapor Analyzer equipped with Photoionization Detector
OWS	Oil-Water Separator
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated Biphenyls
PEI	Preliminary Environmental Investigation
ppm	Parts per million
PSI	Professional Service Industries, Inc.
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RCRA	Resource Conservation and Recovery Act
ROW	Right-of-Way
SLG	Screening Level for Groundwater
SSL	Site Specific Screening Level
STV	STV Incorporated
SVOCs	Semi-Volatile Organic Compounds
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Top-of-Casing
TPH	Total Petroleum Hydrocarbons
USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
WMATA	Washington Metropolitan Area Transit Authority

1. INTRODUCTION

Professional Service Industries, Inc. (PSI), an Intertek company, has prepared this Supplemental Site Assessment (SSA) Report for the Washington Metropolitan Area Transit Authority (WMATA) Northern Bus Garage on behalf of STV Incorporated (STV) and Clark Construction (Clark). The project is located at 4615 14th Street NW in Washington, District of Columbia (D.C.). See Figure 1 for presentation of the site location as presented on a USGS Topographic Map and Figure 2 for a Site Layout Map presenting the approximate locations of various underground storage tanks (USTs), above-ground storage tanks (ASTs), floor drains, sumps, and other various appurtenances.

2. PURPOSE AND SCOPE

The investigation activities documented in this SSA Report are a continuation of assessment activities performed at the site prior to the upcoming, planned demolition of the on-site building/structures and construction of a new WMATA bus garage and maintenance facility. Historical soil and groundwater assessment activities performed have indicated the subject site has been impacted by polychlorinated biphenyls (PCBs), metals, petroleum-related compounds, and chlorinated solvent-related compounds at concentrations above their respective DOEE Tier 1 Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (Tier 1 - CW) criteria. As such, this SSA has been performed to provide additional information regarding the extent of previously identified impacts at the project site for use in the development of appropriate soil and groundwater management protocols to be utilized during the planned construction activities at the project site.

2.1 Environmental Assessment History

Previous investigations at the project site have been conducted by Versar, Inc., PSI, and others. A list of the reports prepared documenting various assessment activities performed at the site are listed below:

- Environmental Site Assessment (ESA) Report – Versar, 2003
- Preliminary Environmental Investigation Report – PSI, 2020
- Comprehensive Site Assessment Report – PSI, 2022
- Soil Remediation and Vapor Management Plan – PSI, 2022

Based on the assessment activities performed at the between 2003 and December 2021, the following summary of findings is provided below:

2.1.1 Soil Assessment Findings

- The on-site soil has been shown to contain levels of semi-volatile organic compounds (SVOCs) at concentrations above their respective DOEE Tier 1 – CW thresholds at four (4) soil sample locations on the subject property. All four (4) samples were collected from interior locations in the northern portion of the building on the subject site.

- Arsenic was identified at multiple locations and lead at a single sampling location exterior of the structure on the subject property and adjoining public spaces (rights-of-way). Based on the data collected and regional geologic information, the source of the elevated arsenic concentrations

appears to be the result of high background concentrations known to be present in the soil types at the subject property, while the elevated lead concentration in the area of soil sample SB-017SS appears to be the result of leaching of lead from a nearby leaded pipe within close proximity to the soil sample location. Based on the aforementioned, there are no indications that the source of the elevated arsenic or lead in soil concentrations is associated with the historic activities performed on the subject property.

- One soil sample located east of Arkansas Avenue NW (SB-015SS) was identified as containing gasoline range organics (GRO) at a concentration approaching the DOEE Tier 0 Soil Screening Level of 100 milligrams per kilogram (mg/kg). Based on the location, depth, and contaminant of concern (COC), the source of the presence of GRO in Soil Sample SB-015SS does not appear to be associated with the historical activities performed at the subject site.

2.1.2 Groundwater Assessment Findings

- The on-site groundwater has been shown to contain DRO at concentrations above its DOEE Screening Levels for Groundwater (SLGWs) at two (2) locations on the subject property.

- During previous assessment activities, light non-aqueous phase liquid (LNAPL, aka free-product) was identified in Temporary Monitoring Well TMW-06 in December 2019 and in existing Monitoring Well MW-003 in January 2022.

- Chlorinated solvents were identified in groundwater samples collected at both on-site and off-site locations, based on the soil and groundwater data collected to date; however, there appears to be no identifiable on-site source of the chlorinated solvents resulting in these identified impacts.

2.2 Supplemental Site Assessment Plans and Permits

Prior to implementation of the SSA activities, PSI prepared a Supplemental Site Assessment Work Plan for each of the on-site and off-site tasks for submittal to DOEE as part of the Wells and Borings Permit application process. With assistance from Interagency, Inc., the permits for the on-site (Interior Private Spaces - Permit #SB2200400) and off-site (public spaces – Permit #403106) activities were initially submitted on August 29, 2022 and September 2, 2022, respectively. Approval of both Wells and Borings Permits was granted on September 20, 2022. A copy of the approved permits is provided in Appendix A.

Additionally, in accordance with DOEE and DDOT requirements, for the drilling work being performed in the traffic right-of-way (ROW) along the east side of Arkansas Avenue NW, PSI obtained an occupancy permit (permit # PA403106).

2.3 Proposed Scope of Work

At the request of the DOEE, further assessment of petroleum and chlorinated solvent impacts identified during the preliminary environmental investigation in 2020 was proposed, approved, and executed. The following approved scope of work for this assessment is presented below.

2.3.1 Petroleum Impacted Areas

A. Collection of Off-Site Soil Sampling and Analysis

- Drill two (2) soil borings on the east side of Arkansas Avenue NW, located approximately 60 feet to the north and 60 feet to the south of Soil Boring SB-015.
- Drill a boring as far east of Boring SB-015 as is accessible and within the limits of the road Right-of-Way (ROW).
- Collect soil samples from a depth of 6 to 8 feet below ground surface (bgs) for analytical testing. The sampling depth of 6 to 8 feet was selected based on the previous analytical results of a soil sample collected from a depth of 6 to 8 feet in Boring SB-015SS, which resulted in slightly elevated concentrations of total petroleum hydrocarbons – gasoline range organics (TPH-GRO). Soil samples were obtained using techniques and equipment in general conformance with the industry standards.
- The soil samples will be submitted to a laboratory for analytical testing of TPH-GRO/Diesel Range Organics (DRO).

B. Collection of On-Site Soil Sampling and Analysis

- Drill Seven (7) borings inside of the building and collect soil samples for analytical testing.
- The collection of soil sampling will be at 2-foot intervals to depths extending to at least 2 feet into the groundwater table, or spoon refusal, whichever is encountered first. Each soil sample will be visually classified, and field screened for organic vapors, utilizing an OVA-PID. Based on field observation and OVA-PID screening responses, our field representative will collect up to two soil samples from each borehole. Also, the selection of the soil sampling depths will be based on field observations, historical data, and the field engineer's opinion on what is needed to better define the horizontal and vertical extent of petroleum impacts exceeding DOEE Tier 1 – CW criteria.
- Submit collected soil samples to the laboratory for analytical testing of SVOCs and TPH-GRO/DRO.
- Compare the analytical test results to the previously identified petroleum impacted soil areas within the northeastern area of the building and provide proper soil management protocols during construction.

2.3.2 Chlorinated Solvent Impacted Areas

A. Soil Sampling and Analysis

- Drill five (5) borings, collect and submit soil samples to the laboratory for analytical testing.
    - Drill four (4) of the five (5) soil borings along an east to west transect, approximately 75 to 130 feet north of previously sampled temporary monitoring well clusters TMW-013, TMW-006, and TMW-011.
    - Drill one (1) of the five (5) soil borings immediately to the east of the building area, within the ROW, and within proximity of previously drilled Boring 19BH080, where rock was encountered at its greatest depth.

- Collect soil samples at continuous 2-foot intervals to depths extending to auger refusal. Each soil sample will be visually classified, and field screened for organic vapors, utilizing an OVA-PID. Based on field observation and OVA-PID screening responses, our field personnel will collect one (1) soil sample from each borehole locations, where appears to have the highest likelihood of impact.
- Submit soil samples to the laboratory for analytical testing of VOCs and TPH-GRO/DRO.

B. Groundwater Sampling Points

- Collect groundwater samples from the five (5) borings discussed above. At each location, groundwater samples will be collected from two (2) depth intervals within the same proximity. The first sample will be collected at a depth that will allow the screened interval to intersect the top of groundwater table, while a second groundwater sample will be collected immediately from top of the bedrock, utilizing low-flow methodologies. Due to the field limitations encountered during previous sampling activities, PSI will install temporary monitoring wells to collect the groundwater samples. The temporary monitoring wells will be developed to clear the wells of suspended silts and/or sediments. At the time of sample collection, field readings for pH, specific conductance, temperature, dissolved oxygen, and turbidity will be collected to ensure the samples collected are representative of groundwater in the aquifer.

- Upon completion of well development and purging, collect groundwater samples for laboratory analytical testing for VOCs and TPH-GRO/DRO.

2.4 Variances from Approved Plans/Permits

The scope of work was performed in general accordance with the approved SSA Work Plans and permits. However, due to the site conditions encountered, some modifications were made to the scope of work as presented in the Work Plans. The two (2) variances are summarized below:

- TMW-19D – During drilling Boring SB-19SS, auger refusal was encountered at a depth of approximately 17 feet, with an initial estimated depth to groundwater of 9.5 feet bgs. With the same drill rig, auger refusal was also encountered at shallower depths than anticipated. As a result, a larger drill rig was mobilized to the site in an effort to drill the soil borings to greater depths. In the area of Boring SB-19SS/TMW-19S, the drill rig was too large to safely fit within the area and mobilizing in the sidewalk area had to be avoided. Therefore, for safety reasons and to avoid damage to the sidewalk, it was determined that a deeper well would not be installed at this location.
- TMW-23S - During the drilling of Boring SB-23SS, auger refusal was encountered at a depth of approximately 23 feet, with an initial estimated depth to groundwater of 12 feet bgs. Due to shallow auger refusal encountered, and based on the COC being solvent related, it was determined that only a single monitoring well would be installed at this location.

3. SUPPLEMENTAL SITE ASSESSMENT

Based on the results of our assessment activities performed at the subject site and subsequent approval of the SSA Work Plan, in November and December of 2022, PSI drilled, collected soil samples, installed temporary monitoring wells, collected groundwater samples, and measured depth to groundwater table. Soil cuttings generated during the drilling of the soil borings, groundwater generated during development and purging of the wells, sampling of the temporary/permanent monitoring wells, and decontamination water collected during deconning operations were placed into 55-gallon steel drums and stored on-site for subsequent disposal to a properly licensed disposal facility. Historical analytical data was provided to the environmental contractor providing waste disposal for approval prior to removal from the site for disposal. A copy of the Non-Hazardous Waste Manifest for the disposal of 17 55-gallon drums of investigative derived waste at the Ace Environmental Holdings, LLC disposal facility located at 4420 East Eager Street in Baltimore, Maryland is provided in Appendix B.

3.1 Soil Assessment Activities and Findings

3.1.1 Soil Boring Screening and Sampling

PSI field personnel observed the drilling of 12 soil borings and used hand auger, Geoprobe (macro-core), and standard penetration test (SPT) procedures to collect soil samples. Macro-core sampling (Borings SB-61 through SB-67), and SPT sampling (BoringsSB-19SS through SB-23SS) methodologies, using Diedrich (SPTs) drill rigs, were used to collect soil samples. In addition, three (3) soil borings were drilled on the east side of Arkansas Avenue NW within the right-of-way, using hand auger, air knife, and vacuum excavation techniques due to limited access issues and debris present in the subsurface soils.

The on-site soil borings were drilled to where auger refusal was encountered. Refusal was encountered at a minimum depth of 10 feet bgs at Boring SB-61, while Borings SB-20 and SB-21 were drilled to depths of 40 and 39.3, respectively.

Off-site Borings SB-68, SB-69, and SB-70 were drilled to a depth of 8 feet bgs based on the previous soil sample collected at a depth of 8 feet bgs in soil boring SB015SS drilled in December 2021.

Based on historical and recent assessment activities, groundwater was encountered at depths ranging from 5 to 17 feet bgs at the on-site boring locations and approximately 10 feet bgs in the assessment area east of Arkansas Avenue NW (vicinity of groundwater sampling location TMW-015S in January 2022).

Soil samples were collected from each soil boring on approximate 1- to 2-foot intervals for field observation and screening purposes. Based on field observations (visual and olfactory) and soil screening responses, utilizing an organic vapor analyzer equipped with a photoionization detector (OVA-PID), PSI collected 20 soil samples for laboratory analysis as follows:

Area of Assessment	Soil Sample I.D.	Analytical Testing Performed
On-Site Petroleum Area (North)	SB-61SS(2'), SB-61SS(10'), SB-62SS(6'), SB-62SS(14-16'), SB-63SS(6'), SB-63SS(14'), SB-64SS(6'), SB-64SS(14-15'), SB-65SS(10'), SB-66SS(10'), SB-67SS(4'), and SB-67AS(8-10')	EPA Method 8270E (SVOCs) and EPA Method 8015D (DRO, GRO, and TPH)
On-Site Solvent Area (South)	SB-19SS(4-6'), SB-20SS(2-4'), SB-21SS(2-4'), SB-22SS(2-4'), and SB-23SS(8-9.5')	EPA Method 8260D (VOCs) and EPA Method 8015D (DRO, GRO, and TPH)
Off-Site Petroleum (East of Arkansas Avenue NW)	SB-68(6-8'), SB-69(2-4'), and SB-70(6-8')	EPA Method 8015D (DRO, GRO, and TPH)

3.1.2 Soil Sample Analysis and Findings

Laboratory analytical results for the soil samples collected during the November 2022 environmental field assessment indicated the presence of similar concentrations of petroleum- and solvent-related contaminants as previously identified at the site; however, none of the analyzed samples indicated the presence of test parameters at concentrations above their respective DOEE Tier 1 - CW. Laboratory analysis of the three (3) soil samples collected on the east side of Arkansas Avenue NW were found to have no constituents identified in exceedance of their respective laboratory reporting limits.

Table 1 presents summary of the soil analytical data and results for 2022 sampling, sample depths, and corresponding OVA-PID responses.

Table 2 presents the historical analytical data for 2021 sampling.

Table 3 presents the analytical data for 2019 sampling.

Figure 3 illustrates the soil screening locations for all soil borings performed as part of all known assessment activities at the subject property to date, along with a presentation of the historical data points exhibiting an exceedance of the DOEE Tier 1 - CW soil criteria and new data collected as part of the October 2022 soil sampling activities.

Figure 4 illustrates the field screening findings, soil sample depths for field screening and laboratory analyses of collected samples, and determinations as to whether the analytical results for soil samples collected for the laboratory analysis exceed their respective DOEE Tier I – CW criteria. The borings presented on Figure 4 are limited to the northern area of the site where petroleum-related impacts were identified.

A copy of the Soil OVA Sample Data sheets, soil sample date, soil screening depths, OVA-PID responses, field observations, a lithologic description, and Field Instrument Calibration Records associated with the October 2022 soil sampling event is included in Appendix C. A complete copy of the soil analytical data results and chain of custody documentation is included in Appendix D.

3.1.3 Soil Boring Abandonment

Upon completion, each soil boring was properly abandoned in accordance with DOEE guidance.

3.2 Groundwater Assessment Activities and Findings

3.2.1 Temporary Monitoring Well Installation Activities

Based on previous assessment activities performed at the subject site, PSI installed four (4) shallow temporary 2-inch diameter monitoring wells and four (4) deep, point of auger refusal monitoring wells. The depths for installation were determined based on access limitations, depth to groundwater, and depth of auger refusal. Based on these factors, a shallow and a deep well cluster was installed at three (3) locations within the building, one (1) shallow well was installed outside, between of the east wall of the building and Arkansas Avenue NW, and one (1) deep well was installed in the central area of the building to the depth of refusal. One of the deep monitoring wells (TMW-020D) was installed at the lowest point of refusal identified on the subject property.

The shallow temporary monitoring wells were constructed with a 10 feet section (except TMW-21S, which was installed with a 5-feet section of screen due to its shallow installation depth) of 2-inch diameter schedule 40 polyvinyl chloride (PVC) 0.010-inch factory pre-packed and slotted screen coupled to a 2-inch diameter solid PVC riser and placed so that the well screen bracketed the groundwater table (except TMW-19S, which was installed where the screened interval fell slightly below the groundwater surface as the depth to groundwater observed during performance of the soil boring was approximately 3 feet below the depth to groundwater after the temporary monitoring well was installed). A filter pack was then placed around the screen interval followed by fine sand and a hydrated bentonite seal. The deep (point of refusal) monitoring wells were similarly installed/constructed except they were installed with a 5-feet screened interval (except TMW-20D which was installed with a 10-feet section of screen).

Table 4 presents a summary of the temporary monitoring well construction details. A copy of the Monitoring Well Construction Data forms for each well is included in Appendix C.

3.2.2 Monitoring Well Development

Subsequent to installation of the temporary monitoring wells, PSI field personnel developed the wells, utilizing a centrifugal pump with disposable polyethylene tubing in and conjunction with a surge block as a means of removing fine sediment from the well screen and filter pack. Once visual observations indicated a significant reduction in sediment, well development activities were discontinued. All development water was placed into 55-gallon steel drums and stored on-site for subsequent proper disposal.

3.2.3 Groundwater Sample Analysis and Findings

On November 2 and 11, 2022, PSI field personnel collected groundwater samples from the eight (8) temporary monitoring wells for laboratory testing as follows. A copy of the field equipment calibration forms and groundwater sampling logs is included in Appendix C.

Area of Assessment	Groundwater Sample I.D.	Analytical Testing Performed
On-Site Solvent Area (South)	TMW-19S, TMW-20S, TMW-20D, TMW-21S, TMW-21D, TMW-22S, TMW-22D, and TMW-23D	EPA Method 8260 (VOCs) and EPA Method 8015D (DRO, GRO, and TPH)

TPH-GRO was identified in three (3) of the groundwater samples collected. TPH-DRO was identified in one (1) of the groundwater samples collected. However, no parameters identified in excess of laboratory reporting limits were reported at concentrations exceeding their respective DOEE Tier 1 Screening Levels for Groundwater criteria.

Light non-aqueous phase liquids (LNAPL, aka free-product) was previously identified at two locations (temporary monitoring well TMW-06 in December 2019 and existing monitoring well MW-003 in January 2022) during the performance of assessment activities at the site. Temporary monitoring well TMW-06 was abandoned soon after completion of assessment activities performed at that time. Free-product was again observed in existing monitoring well MW-003 on December 14, 2022.

Chlorinated solvents were identified in groundwater samples collected from the newly installed temporary monitoring wells at similar concentrations to those identified in on-site and off-site locations during previous assessment activities. These additional groundwater results do not provide any identifiable on-site source of the chlorinated solvents identified to date.

Table 5 presents the summary of groundwater analytical data and results for November 2022 sampling, sample depths, and corresponding OVA-PID responses.

Table 6 presents the historical groundwater analytical data for January 2022 Sampling.

Table 7 presents the groundwater analytical data for December 2019 Sampling.

Figure 5 presents the locations for all temporary and permanent monitoring wells installed as part of all known assessment activities performed at the site to date, along with a presentation of the historical data points exhibiting an exceedance of the DOEE Tier 1 Screening Levels for Groundwater criteria along with new data collected as part of the November 2022 groundwater sampling activities.

A copy of the Field Instrument Calibration Records for the November 2022 groundwater sampling event is included in Appendix C. A complete copy of the groundwater analytical data results and chain of custody documentation is included in Appendix E.

3.2.4 Groundwater Flow Determination

On December 14, 2022, PSI field personnel measured the depth to groundwater below top of casing from all on-site permanent/temporary monitoring wells for use in calculating groundwater flow direction at the site. The groundwater levels were collected within a 24-hour period and were measured from top-of-casing (TOC) and recorded to the nearest 0.01 of a foot.

Utilizing TOC elevation and measured depth-to-groundwater from the existing (based on previous top of casing elevation survey performed during CSA activities) and temporary monitoring wells installed as part of this SSA (surveyed by Precision Survey and Mapping on December 7, 2022), groundwater elevations were calculated by subtracting the depth-to-groundwater measurements from the TOC elevations for each well. Based on these calculations, the groundwater flow direction in the shallow and deep aquifer on December 14, 2022, was determined to be towards the east to southeast. The shallow and deep aquifer groundwater flow direction appear to be generally consistent with historic assessments.

Figures 6 and 7 preset groundwater elevation and maps for the shallow and deep (point of auger refusal) wells, respectively.

Table 8 presents a summary of the top of casing elevations, and measured depth to groundwater table.

3.2.5 Monitoring Well Abandonment

Upon completion of these supplemental assessment activities, all temporary monitoring wells were properly abandoned in accordance with DOEE guidance. The existing monitoring wells remain in place and will only be abandoned in the event that construction activities warrant the need for proper abandonment.

3.3 Soil and Groundwater Management and Monitoring Plan

Based on the historical and recent data, PSI has prepared a Soil and Groundwater Management and Monitoring Plan (SGMMP) to provide guidance for the proper testing and handling of the on-site soil and groundwater during the upcoming, planned construction phase of the project. The SGMMP will be provided under separate cover.

3.4 Sentinel Well Installation and Sampling

At the request of DOEE, for the purpose of monitoring the groundwater concentrations following the construction activities, four (4) sentinel monitoring wells will be installed in downgradient positions on the subject property. Three (3) of the sentinel wells will be installed to depths of approximately 20 feet bgs to allow for the monitoring of the shallow groundwater on the site, while the fourth will be installed in the approximate area of TMW-20D to a depth of 40 to 45 feet bgs in the area where auger refusal was encountered. The four (4) sentinel monitoring wells, along with the existing monitoring wells (MW-001 through MW-004), will be sampled by WMATA for laboratory testing for VOCs (EPA Method 8260) and for DRO (EPA Method 8015D), or as ultimately agreed upon by DOEE, until such time that DOEE determines such sampling and testing is no longer required. Following DOEE approval, all monitoring and

sentinel wells shall be properly abandoned in accordance with DOEE regulations. A report of findings shall be submitted to DOEE by WMATA following each bi-annual groundwater sampling event. Figure 8 presents the locations of the existing monitoring wells and sentinel wells.

4. CONCLUSIONS

Based on the extent and concentrations of the impacts identified in previous assessment and these SSA assessment activities, the identified soil and groundwater impacts do not represent a significant threat to the properties in the vicinity of the site property. Additionally, the chlorinated solvent groundwater plume concentrations appear to be consistent with historic environmental assessments performed at the site property, and the groundwater impact plume appears to be stable in size indicating little/no migration.

Based on the assessment activities performed between 2003 and December 2022, including these SSA activities, the following summary of findings is provided below:

Soil Assessment Findings

- The on-site soil has been shown to contain levels of SVOCs at concentrations above their respective DOEE Tier I – Construction Worker thresholds at four (4) locations on the subject property. All four (4) samples were collected from interior locations in the northern portion of the building on the subject site.

- Arsenic was identified at multiple locations and lead at a single sampling location exterior of the structure on the subject property and adjoining public spaces (rights-of-way). Based on the data collected and regional geologic information, the source of the elevated arsenic concentrations appears to be the result of high background concentrations known to be present in the native soil types at the subject site, while the elevated lead concentration in the area of soil sample SB-017SS appears to be the result of leaching of lead from a leaded pipe located within close proximity to the soil sample location. Therefore, there are no indications the source of the elevated arsenic or lead in soil concentrations identified are associated with the historic activities performed on the subject property.

- One soil sample located east of Arkansas Avenue NW (SB-015SS) was identified as containing GRO at a concentration approaching the DOEE Tier 0 Soil Screening Level of 100 mg/kg. The laboratory analysis of three (3) additional soil samples collected from locations to the north, south, and east of SB-015SS during the SSA activities indicated the presence of no GRO above its laboratory reporting limit. Based on the location, depth, and COC, the source of the GRO identified in Soil Sample SB-015SS does not appear to be associated with the historical activities performed at the subject site.

Groundwater Assessment Findings

- The on-site groundwater has been shown to contain DRO at concentrations above their respective DOEE SLGWs at two (2) locations on the subject property.

- Light non-aqueous phase liquids (LNAPL, aka free-product) was previously identified at two locations (temporary monitoring well TMW-06 in December 2019 and existing monitoring well

MW-003 in January 2022) during the performance of assessment activities at the site. Temporary monitoring well TMW-06 was abandoned soon after completion of assessment activities performed at that time. Free-product was again observed in existing monitoring well MW-003 on December 14, 2022.

- Although chlorinated solvents were identified in groundwater samples collected at both on-site and off-site locations, based on the soil and groundwater data collected to date, there appears to be no identifiable on-site source of the chlorinated solvents resulting in these impacts.

As indicated in Section 3.3, PSI has prepared a SGMMP (provided under separate cover) to provide guidance for the proper testing and handling of the on-site soil and groundwater during the upcoming, planned construction phase of the project. This document also provides details regarding the installation and sampling of replacement monitoring wells and sentinel wells for the purpose of monitoring the on-site groundwater in a down-gradient position until DOEE determines they are no longer required, at which point they will be properly abandoned in accordance with DOEE guidance.

TABLES

Table 1
Soil Analytical Data (2022 Sampling Event)
WMATA Northern Bus Facility

Boring/Sample ID		SB-61SS(2')	SB-61SS(10')	SB-62SS(6')	SB-62SS(14-16')	SB-63SS(6')	SB-63SS(14')	SB-64SS(6')	SB-64SS(14-15')	SB-65SS(10')	SB-66SS(10')	SB-67SS(4')	SB-67AS(8-10')	SB-68(6-8')	SB-69(2-4')	SB-70(6-8')	SB-19SS(4-6')	SB-20SS(2'-4')	SB-21SS(2-4')	SB-22SS(2-4')	SB-23SS(8-9.5')
Sample Date		10/14/22	10/14/22	10/10/22	10/10/22	10/10/22	10/10/22	10/10/22	10/10/22	10/14/22	10/14/22	10/14/22	10/10/22	11/10/22	11/10/22	11/07/22	10/14/22	11/07/22	10/13/22	10/13/22	10/24/22
Sample depth collected (feet BLS)		2	10	6	14-16	6	14	6	14-15	10	10	4	8-10'	6-8'	2-4'	6-8'	4 - 6	2 - 4	2 - 4	2 - 4	8 - 9.5
OVA-PID reading at sample depth (ppm)		48	100+	0.5	217.3	0.7	163.1	1.0	9.2	1.1	1.8	28	2.4	0.5	51.0	0.2	84.0	99.6	25.7	70.3	380.3
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
Priority Pollutant Metals																					
Mercury	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated biphenyls																					
Aroclor (Total)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1262	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1268	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds																					
1,1'-Biphenyl	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2**	ND	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	-	**0.28**	**0.19**	ND	ND	ND	ND	**0.042**	**12**	ND	ND	**14**	ND	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol (4,6 dinitro-o-cresol)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol (p-chloro-m-cresol)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline (P-chloroaniline)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	37,100	**0.19**	ND	ND	**0.092**	ND	**0.17**	**0.18**	ND	ND	**0.50**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	-	ND	ND	ND	**0.087**	**0.048**	**0.24**	**0.061**	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	186,000	**0.34**	ND	**0.041**	**0.39**	**0.14**	**0.52**	**0.31**	ND	**0.81**	**1.6**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]anthracene	59.2	**1.1**	ND	**0.13**	**1.7**	**0.46**	**1.8**	**0.87**	ND	**2.5**	**4.3**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]pyrene	5.92	**1.1**	ND	**0.12**	**1.6**	**0.43**	**1.7**	**0.74**	ND	**2.5**	**4.1**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[b]fluoranthene	59.2	**1.6**	ND	**0.19**	**2.1**	**0.56**	**2.7**	**1.1**	**1.3**	**3.3**	**5.6**	**0.26**	**0.054**	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[g,h,i]perylene	20,200	**0.72**	ND	**0.10**	**0.94**	**0.35**	**0.99**	**0.41**	ND	**1.5**	**2.5**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[k]fluoranthene	580	**0.44**	ND	**0.047**	**0.69**	**0.22**	**0.74**	**0.27**	ND	**1.3**	**1.4**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA

Table 1
Soil Analytical Data (2022 Sampling Event)
WMATA Northern Bus Facility

Boring/Sample ID		SB-61SS(2')	SB-61SS(10')	SB-62SS(6')	SB-62SS(14-16')	SB-63SS(6')	SB-63SS(14')	SB-64SS(6')	SB-64SS(14-15')	SB-65SS(10')	SB-66SS(10')	SB-67SS(4')	SB-67AS(8-10')	SB-68(6-8')	SB-69(2-4')	SB-70(6-8')	SB-19SS(4-6')	SB-20SS(2'-4')	SB-21SS(2-4')	SB-22SS(2-4')	SB-23SS(8-9.5')
Sample Date		10/14/22	10/14/22	10/10/22	10/10/22	10/10/22	10/10/22	10/10/22	10/10/22	10/14/22	10/14/22	10/14/22	10/10/22	11/10/22	11/10/22	11/07/22	10/14/22	11/07/22	10/13/22	10/13/22	10/24/22
Sample depth collected (feet BLS)		2	10	6	14-16	6	14	6	14-15	10	10	4	8-10'	6-8'	2-4'	6-8'	4 - 6	2 - 4	2 - 4	2 - 4	8 - 9.5
OVA-PID reading at sample depth (ppm)		48	100+	0.5	217.3	0.7	163.1	1.0	9.2	1.1	1.8	28	2.4	0.5	51.0	0.2	84.0	99.6	25.7	70.3	380.3
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
bis(2-Chloroisopropyl)ether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	-	ND	ND	ND	**0.095**	ND	ND	**0.20**	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	5,780	**1.1**	ND	**0.13**	**1.6**	**0.47**	**1.7**	**0.80**	ND	**2.3**	**3.7**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo[a,h]anthracene	-	**0.19**	ND	ND	**0.27**	**0.081**	**0.27**	**0.11**	ND	**0.45**	**0.69**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	-	**0.11**	**0.12**	**0.0094**	**0.057**	**0.022**	**0.12**	**0.12**	**0.59**	**0.23**	**0.40**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (Dibutyl Phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate (Di-n-octyl phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	24,800	**2.3**	ND	**0.25**	**2.9**	**0.81**	**3.1**	**1.7**	**2.2**	**4.3**	**7.5**	**0.29**	**0.056**	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	24,800	**0.23**	ND	ND	**0.14**	ND	**0.27**	**0.20**	ND	ND	**0.51**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	-	**0.62**	ND	**0.085**	**0.91**	**0.29**	**0.91**	**0.39**	ND	**1.4**	**2.2**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	4,160	**0.11**	ND	**0.011**	**0.024**	**0.019**	**0.054**	**0.085**	ND	ND	**0.14**	**3.4**	**0.021**	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	20,200	**1.3**	**0.36**	**0.16**	**1.1**	**0.47**	**1.4**	**1.5**	**1.8**	**3.3**	**5.0**	**0.33**	ND	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	18,600	**2.0**	ND	**0.23**	**2.5**	**0.79**	**2.7**	**1.5**	**2.7**	**4.0**	**6.8**	**0.28**	**0.049**	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons																					
Gasoline Range Organics	1,040,000,000	**160**	**150**	ND	**260**	ND	ND	ND	**5,700**	**49**	ND	**79**	ND	ND	ND	ND	ND	ND	ND	ND	**83**
Diesel Range Organics	127,000,000	**1,400**	**8,800**	ND	**140**	**140**	**2,800**	**190**	**8,300**	**780**	**320**	**6,900**	ND	ND	ND	ND	**90**	**480**	ND	ND	**1200**
Total Petroleum Hydrocarbons	-	**2,000**	**12,000**	ND	**270**	**420**	**4,300**	**540**	**15,000**	**1,300**	**610**	**7,300**	**140**	ND	ND	ND	**160**	**1800**	ND	ND	**1300**
Volatile Organic Compounds																					
1,1,1-Trichloroethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,1-Dichloroethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,1-Dichloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,2-Dibromoethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,2-Dichloroethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
1,4-Dioxane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2-Butanone (methyl ethyl ketone)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
2-Hexanone	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (Methyl isobutyl ketone)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Acetone	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	**0.034**
Benzene	691	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Bromochloromethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Bromodichloromethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Bromoform	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Bromomethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Carbon disulfide	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Carbon tetrachloride	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Chlorobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Chloroethane (ethyl chloride)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Chloroform	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Chloromethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND

Table 1
Soil Analytical Data (2022 Sampling Event)
WMATA Northern Bus Facility

Boring/Sample ID		SB-61SS(2')	SB-61SS(10')	SB-62SS(6')	SB-62SS(14-16')	SB-63SS(6')	SB-63SS(14')	SB-64SS(6')	SB-64SS(14-15')	SB-65SS(10')	SB-66SS(10')	SB-67SS(4')	SB-67AS(8-10')	SB-68(6-8')	SB-69(2-4')	SB-70(6-8')	SB-19SS(4-6')	SB-20SS(2'-4')	SB-21SS(2-4')	SB-22SS(2-4')	SB-23SS(8-9.5')
Sample Date		10/14/22	10/14/22	10/10/22	10/10/22	10/10/22	10/10/22	10/10/22	10/10/22	10/14/22	10/14/22	10/14/22	10/10/22	11/10/22	11/10/22	11/07/22	10/14/22	11/07/22	10/13/22	10/13/22	10/24/22
Sample depth collected (feet BLS)		2	10	6	14-16	6	14	6	14-15	10	10	4	8-10'	6-8'	2-4'	6-8'	4 - 6	2 - 4	2 - 4	2 - 4	8 - 9.5
OVA-PID reading at sample depth (ppm)		48	100+	0.5	217.3	0.7	163.1	1.0	9.2	1.1	1.8	28	2.4	0.5	51.0	0.2	84.0	99.6	25.7	70.3	380.3
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
Cyclohexane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	**0.0050**
Dibromochloromethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Dichlorodifluoromethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Ethylbenzene	3,180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	**0.0011**	ND	ND	ND
Isopropylbenzene (cumene)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	**0.027**
m&p-Xylenes	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Methyl Acetate	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Methylcyclohexane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	**0.037**
Methylene chloride	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.0034**	ND	ND	**0.0073**	**0.0056**
Methyl-t-butyl ether (MTBE)	8,490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
o-Xylene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Styrene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	**0.0025**	ND
Toluene	64,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Trichloroethene (TCE)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Trichlorofluoromethane	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Vinyl chloride	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Xylenes (Total)	23,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND
Total Solids (%)	NA	90	91	94	82	78	77	86	80	86	89	84	78	80	83	82	85	79	89	89	88

Notes:

ID = identification
BLS = below land surface
DC DOEE = Department of Energy and Environment
DCRBCA = District of Columbia Risk Based Corrective Action Screening Levels, Ju- 2011
µg/L = micrograms per liter or parts per billion (ppb)
mg/L = milligrams per liter or parts per million (ppm)

NA = Analyte not analyzed
ND = Analyte not detected above the laboratory minimum detection level (LMDL) for specified analyte
Bold = Value detected above LMDL
Orange highlighted values exceed DOEE RBCA Tier 1 soil screening levels

Table 2
Soil Analytical Data (2021 Sampling Events)
WMATA Northern Bus Facility

Boring/Sample ID		SB-001SS	SB-002SS1	SB002SS2	SB-003SS	SB-004 SS	SB-005SS	SB-006SS	SB-007SS	SB-008 SS	SB-009SS	SB-010SS	SB-011SS	SB-012SS	SB-013SS	SB-014SS	SB-015SS	SB-016 SS	SB-017 SS	SB-018 SS
Sample Date		10/18/21	10/18/21	10/18/21	10/19/21	10/14/21	10/15/21	10/15/21	10/19/21	12/06/21	12/07/21	12/07/21	12/07/21	12/08/21	12/08/21	12/09/21	12/17/21	12/16/21	12/16/21	12/16/21
Sample depth collected (feet BLS)		4 - 6	16 - 18	18 - 20	6 - 8.5	8 - 10	2 - 4	14 - 16	4 - 6	20-22	8 - 10	4 - 6	10 - 12	6 - 8	8 - 10	8 - 10	6 - 8	8 - 10	6 - 8	8 - 10
OVA-PID reading at sample depth (ppm)		3.3	823	NA	5.4	1.6	870.3	0.4	1,350	1.0	0.3	1.8	1,668	0.2	13.1	0.8	16.1	0.3	0.4	0.3
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
Priority Pollutant Metals																				
Mercury	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	-	NA	NA	NA	**30**	**16**	**37**	**20**	**33**	**6.3**	**14**	**22**	**16**	**11**	**12**	**12**	**13**	**15**	**13**	**6.1**
Copper	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead/TCLP Lead	-	NA	NA	NA	**10**	**270**	**15**	**64**	**9.3**	ND	**6.1**	**7.4**	**7.1**	**26**	**28**	**150**	**10**	**9.9**	**860/ND**	**35**
Nickel	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	-	NA	NA	NA	**1.9**	**5.8**	**2**	**2.9**	**1.8**	**1**	**3.3**	**3.3**	**5.9**	**7.7**	**4.3**	**3.6**	**3.1**	**3.5**	**8.1**	**1.9**
Beryllium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	-	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated biphenyls																				
Aroclor (Total)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1262	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1268	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds																				
1,1'-Biphenyl	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	-	ND	ND	**0.31**	ND	ND	ND	ND	ND	ND	ND	ND	**0.092**	ND	ND	**0.32**	ND	ND	ND	ND
2-Methylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol (4,6 dinitro-o-cresol)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol (p-chloro-m-cresol)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline (P-chloroaniline)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2
Soil Analytical Data (2021 Sampling Events)
WMATA Northern Bus Facility

Boring/Sample ID		SB-001SS	SB-002SS1	SB002SS2	SB-003SS	SB-004 SS	SB-005SS	SB-006SS	SB-007SS	SB-008 SS	SB-009SS	SB-010SS	SB-011SS	SB-012SS	SB-013SS	SB-014SS	SB-015SS	SB-016 SS	SB-017 SS	SB-018 SS
Sample Date		10/18/21	10/18/21	10/18/21	10/19/21	10/14/21	10/15/21	10/15/21	10/19/21	12/06/21	12/07/21	12/07/21	12/07/21	12/08/21	12/08/21	12/09/21	12/17/21	12/16/21	12/16/21	12/16/21
Sample depth collected (feet BLS)		4 - 6	16 - 18	18 - 20	6 - 8.5	8 - 10	2 - 4	14 - 16	4 - 6	20-22	8 - 10	4 - 6	10 - 12	6 - 8	8 - 10	8 - 10	6 - 8	8 - 10	6 - 8	8 - 10
OVA-PID reading at sample depth (ppm)		3.3	823	NA	5.4	1.6	870.3	0.4	1,350	1.0	0.3	1.8	1,668	0.2	13.1	0.8	16.1	0.3	0.4	0.3
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
Acenaphthene	37,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.039**	ND	**1.2**	ND	ND	ND	ND
Acenaphthylene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.33**	ND	ND	ND	ND
Acetophenone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	186,000	ND	ND	ND	ND	**0.22**	ND	**0.16**	ND	ND	ND	ND	ND	**0.095**	ND	**2.3**	ND	ND	**0.053**	ND
Atrazine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	59.2	ND	ND	ND	ND	**0.84**	**0.058**	**0.74**	ND	ND	**0.087**	ND	ND	**0.18**	**0.12**	**4.8**	**0.058**	ND	**0.25**	ND
Benzo[a]pyrene	5.92	ND	ND	ND	ND	**0.71**	**0.06**	**0.66**	ND	ND	**0.092**	ND	ND	**0.16**	**0.14**	**4.4**	**0.063**	ND	**0.2**	ND
Benzo[b]fluoranthene	59.2	ND	ND	ND	ND	**0.98**	**0.086**	**0.87**	ND	ND	**0.11**	ND	ND	**0.22**	**0.2**	**5.6**	**0.088**	ND	**0.32**	ND
Dibenzo[a,h]anthracene	-	ND	ND	ND	ND	ND	ND	**0.12**	ND	ND	ND	ND	ND	ND	ND	**0.64**	ND	ND	ND	ND
Dibenzofuran	-	ND	**0.066**	**0.076**	ND	ND	ND	**0.016**	ND	ND	ND	ND	ND	**0.035**	ND	**0.95**	ND	ND	ND	ND
Diethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate (Dibutyl Phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate (Di-n-octyl phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	24,800	ND	ND	ND	ND	**1.6**	**0.1**	**1.2**	ND	ND	**0.14**	ND	ND	**0.4**	**0.17**	**10**	**0.071**	ND	**0.45**	**0.039**
Fluorene	24,800	ND	**0.12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.98**	ND	ND	ND	ND
Hexachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	-	ND	ND	ND	ND	**0.44**	**0.04**	**0.4**	ND	ND	**0.057**	ND	ND	**0.094**	**0.099**	**2.6**	**0.042**	ND	**0.11**	ND
Isophorone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	4,160	ND	ND	ND	ND	ND	**0.034**	ND	ND	ND	ND	ND	**0.025**	ND	ND	**0.65**	ND	ND	ND	ND
Nitrobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	20,200	ND	ND	ND	ND	**0.86**	**0.048**	**0.46**	ND	ND	**0.069**	ND	ND	**0.38**	**0.071**	**9.1**	ND	ND	**0.25**	ND
Phenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	18,600	ND	ND	ND	ND	**1.3**	**0.11**	**1.1**	ND	ND	**0.15**	ND	ND	**0.36**	**0.18**	**9.8**	**0.071**	ND	**0.44**	**0.044**
Total Petroleum Hydrocarbons																				
Gasoline Range Organics	1,040,000,000	ND	**870**	**2000**	ND	ND	**120**	ND	**220**	ND	ND	ND	**330**	ND	ND	**110**	**79**	ND	ND	ND
Diesel Range Organics	127,000,000	ND	**130**	**390**	**680**	ND	**370**	ND	ND	ND	ND	ND	**5400**	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons	-	ND	**880**	**2000**	ND	**97**	**150**	ND	**270**	ND	ND	ND	**470**	ND	ND	**240**	**78**	ND	**120**	ND
Volatile Organic Compounds																				
1,1,1-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (methyl ethyl ketone)	-	ND	**0.039**	**0.021**	ND	ND	**0.0059**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 2
Soil Analytical Data (2021 Sampling Events)
WMATA Northern Bus Facility

Boring/Sample ID		SB-001SS	SB-002SS1	SB002SS2	SB-003SS	SB-004 SS	SB-005SS	SB-006SS	SB-007SS	SB-008 SS	SB-009SS	SB-010SS	SB-011SS	SB-012SS	SB-013SS	SB-014SS	SB-015SS	SB-016 SS	SB-017 SS	SB-018 SS
Sample Date		10/18/21	10/18/21	10/18/21	10/19/21	10/14/21	10/15/21	10/15/21	10/19/21	12/06/21	12/07/21	12/07/21	12/07/21	12/08/21	12/08/21	12/09/21	12/17/21	12/16/21	12/16/21	12/16/21
Sample depth collected (feet BLS)		4 - 6	16 - 18	18 - 20	6 - 8.5	8 - 10	2 - 4	14 - 16	4 - 6	20-22	8 - 10	4 - 6	10 - 12	6 - 8	8 - 10	8 - 10	6 - 8	8 - 10	6 - 8	8 - 10
OVA-PID reading at sample depth (ppm)		3.3	823	NA	5.4	1.6	870.3	0.4	1,350	1.0	0.3	1.8	1,668	0.2	13.1	0.8	16.1	0.3	0.4	0.3
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
2-Hexanone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (Methyl isobutyl ketone)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	-	ND	**0.24**	**0.11**	ND	ND	**0.041**	**0.012**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	691	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	**0.0057**	ND	ND	**0.0033**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane (ethyl chloride)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.1**	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	3,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (cumene)	-	ND	**0.0062**	ND	ND	ND	**0.012**	ND	ND	ND	ND	ND	**11**	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	**0.014**	**0.038**	ND	ND	**0.0021**	ND	ND	ND	ND	ND	**17**	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	-	**0.0022**	**0.0051**	**0.0031**	ND	ND	**0.0036**	**0.0027**	**0.0034**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0025**	**0.0027**
Methyl-t-butyl ether (MTBE)	8,490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	-	ND	ND	ND	**0.74**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	64,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	23,900	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Solids (%)	NA	93	87	77	74	89	89	84	89	87	88	86	84	86	83	90	85	82	81	93

Notes:
ID = identification
BLS = below land surface
DC DOEE = Department of Energy and Environment
DCRBCA = District of Columbia Risk Based Corrective Action Screening Levels, Ju- 2011
µg/L = micrograms per liter or parts per billion (ppb)
mg/L = milligrams per liter or parts per million (ppm)
NA = Analyte not analyzed
ND = Analyte not detected above the laboratory minimum detection level (LMDL) for specified analyte
Bold = Value detected above LMDL
Orange highlighted values exceed DOEE RBCA Tier 1 soil screening levels

Table 3
Soil Analytical Data (2019 Sampling Event)
WMATA Northern Bus Facility

Boring/Sample ID		SB-01	SB-02	SB-04	SB-05	SB-06	SB-08	SB-11	SB-12	SB-14	SB-15	SB-16	SB-17	SB-17	SB-28	SB-29	SB-30	SB-32	SB-33	SB-34	SB-36	SB-40	SB-43	SB-43A	SB-46	SB-51	SB-59	SB-60
Sample Date		11/25/19	11/25/19	12/04/19	12/02/19	11/26/19	11/22/19	11/21/19	12/26/19	12/27/19	12/27/19	12/03/19	11/26/19	11/26/19	12/02/19	12/02/19	12/04/19	11/21/19	12/03/19	11/22/19	12/03/19	11/21/19	11/22/19	12/03/19	11/21/19	11/20/19	11/20/19	11/20/19
Sample depth collected (feet BLS)		11'	11'	7'	9'	11'	9'	1'	17'	5'	3'	1'	3'	11'	9'	1'	7'	1'	3'	10'	17'	19'	11'	1'	22'	10'	1'	5'
OVA-PID reading at sample depth (ppm)		1.6	0.9	0.0	6.9	2.8	11.7	102.2	300.3	2.3	10.4	0.0	20.5	0.5	13.9	318	107.8	3.5	3.7	66.1	1.7	12.7	552.4	0.7	8.3	1483	6.7	1123
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
Priority Pollutant Metals																												
Mercury	-	ND	ND	**0.51**	ND	ND	ND	ND	ND	ND	ND	ND	**0.16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.98**	ND	ND	ND	ND
Barium	-	**38**	**72**	**160**	**28**	**150**	**72**	**51**	**110**	**40**	**18**	**74**	**93**	**61**	**100**	**83**	**91**	**110**	**130**	**80**	**81**	**110**	**49**	**57**	**60**	**95**	**100**	**140**
Chromium	-	**16**	**41**	**38**	**7.7**	**17**	**27**	**27**	**24**	**35**	**20**	**37**	**18**	**11**	**24**	**19**	**26**	**22**	**25**	**31**	**26**	**36**	**27**	**22**	**25**	**43**	**38**	**46**
Copper	-	**22**	**30**	**330**	**6.6**	**54**	**17**	**26**	**38**	**9**	**7.6**	**18**	**50**	**57**	**70**	**75**	**38**	**46**	**57**	**32**	**35**	**24**	**29**	**25**	**23**	**37**	**80**	**49**
Lead	-	**71**	**26**	**1,000**	**75**	**29**	**6.1**	**47**	**7.5**	**17**	**8.1**	**11**	**250**	**27**	**410**	**190**	**41**	**51**	**530**	**10**	**6.9**	**12**	**14**	**34**	**10**	**9.2**	**14**	**12**
Nickel	-	**5.6**	**24**	**39**	**6**	**8.8**	**30**	**26**	**30**	**37**	ND	**15**	**14**	**6.1**	**13**	**19**	**24**	**17**	**16**	**33**	**28**	**23**	**20**	**17**	**15**	**41**	**54**	**49**
Zinc	-	**56**	**62**	**1,200**	**44**	**160**	**77**	**60**	**81**	**27**	ND	**46**	**110**	**31**	**300**	**180**	**82**	**120**	**250**	**87**	**71**	**62**	**52**	**64**	**40**	**94**	**160**	**120**
Antimony	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	-	**1.3**	**1.2**	**8.5**	**2.6**	**1.2**	**0.70**	**2.5**	**1.9**	**1.8**	**0.84**	**1.5**	**3.7**	**2.6**	**5.9**	**2.9**	**1.5**	**1.7**	**5.3**	**1.3**	**1.6**	**1.5**	**15**	**2.7**	**1.5**	**2.2**	**1.4**	**1.7**
Beryllium	-	**0.28**	**0.72**	**0.29**	**0.23**	ND	**1.1**	**0.86**	**2**	ND	ND	**0.38**	**0.64**	**0.23**	**0.44**	ND	**0.86**	**0.34**	**1.4**	**1.6**	**1.2**	**0.46**	**12**	**1.4**	**1.0**	**1.4**	**1.3**	**1.1**
Cadmium	-	ND	ND	**1.7**	ND	ND	ND	ND	ND	ND	ND	ND	**0.6**	ND	**0.93**	**0.53**	ND	ND	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	-	ND	ND	ND	ND	ND	ND	**2.9**	**3.5**	ND	ND	**2.7**	ND	ND	ND	ND	**2.4**	ND	**3.8**	**3.3**	**4.2**	ND	**3.4**	**4.6**	ND	**3.2**	**4.6**	**4.6**
Silver	-	ND	ND	ND	ND	ND	ND	**0.28**	ND	ND	ND	ND	ND	ND	ND	**0.28**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.7**	ND	ND	ND	ND	ND	ND	ND
Polychlorinated biphenyls																												
Aroclor (Total)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.068**	ND	ND
Aroclor-1016	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1221	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1232	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1242	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1248	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1254	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.068**	ND	ND
Aroclor-1260	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1262	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1268	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds																												
1,1'-Biphenyl	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	-	**2.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.98**	ND	**5.6**	**3.9**	ND	ND	ND	ND	ND	ND	**0.30**	ND	ND	**1.1**	ND	**0.15**
2-Methylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.12**	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol (4,6 dinitro-o-cresol)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol (p-chloro-m-cresol)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline (P-chloroaniline)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	37,100	**3.9**	**0.31**	**0.62**	ND	**0.1**	ND	ND	ND	ND	ND	ND	**3.9**	ND	**18**	ND	ND	ND	**0.26**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	-	ND	ND	ND	ND	**0.06**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	186,000	**5.2**	**1**	**1.9**	**0.056**	**0.35**	ND	**0.11**	ND	**0.043**	ND	ND	**11**	ND	**33**	ND	**0.083**	**0.56**	**0.82**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Atrazine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	59.2	**11**	**2.1**	**8.5**	**0.28**	**0.77**	ND	**0.29**	ND	**0.16**	ND	ND	**26**	**1.3**	**49**	**0.5**	**0.34**	**1.3**	**2.2**	ND	ND	ND	ND	**0.042**	ND	ND	ND	ND
Benzo[a]pyrene	5.92	**9.9**	**2.1**	**8.8**	**0.31**	**0.67**	ND	**0.29**	ND	**0.14**	ND	ND	**20**	**1.3**	**39**	**0.59**	**0.36**	**1.2**	**2.1**	ND	ND	ND	ND	**0.04**	ND	ND	ND	ND
Benzo[b]fluoranthene	59.2	**12**	**2.6**	**12**	**0.41**	**0.86**	ND	**0.40**	ND	**0.19**	**0.04**	ND	**27**	**1.7**	**50**	**0.78**	**0.49**	**1.6**	**2.8**	ND	ND	ND	ND	**0.057**	ND	ND	ND	ND
Benzo[g,h,i]perylene	20,200	**4.4**	**0.91**	**6.1**	**0.26**	**0.36**	ND	**0.21**	ND	**0.1**	ND	ND	**9.1**	**0.71**	**19**	**0.54**	**0.26**	**0.83**	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	580	**4.3**	**0.98**	**3.3**	**0.13**	**0.3**	ND	**0.11**	ND	**0.054**	ND	ND	**9.6**	**0.65**	**15**	**0.21**	**0.15**	**0.55**	**0.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Soil Analytical Data (2019 Sampling Event)
WMATA Northern Bus Facility

Boring/Sample ID		SB-01	SB-02	SB-04	SB-05	SB-06	SB-08	SB-11	SB-12	SB-14	SB-15	SB-16	SB-17	SB-17	SB-28	SB-29	SB-30	SB-32	SB-33	SB-34	SB-36	SB-40	SB-43	SB-43A	SB-46	SB-51	SB-59	SB-60
Sample Date		11/25/19	11/25/19	12/04/19	12/02/19	11/26/19	11/22/19	11/21/19	12/26/19	12/27/19	12/27/19	12/03/19	11/26/19	11/26/19	12/02/19	12/02/19	12/04/19	11/21/19	12/03/19	11/22/19	12/03/19	11/21/19	11/22/19	12/03/19	11/21/19	11/20/19	11/20/19	11/20/19
Sample depth collected (feet BLS)		11'	11'	7'	9'	11'	9'	1'	17'	5'	3'	1'	3'	11'	9'	1'	7'	1'	3'	10'	17'	19'	11'	1'	22'	10'	1'	5'
OVA-PID reading at sample depth (ppm)		1.6	0.9	0.0	6.9	2.8	11.7	102.2	300.3	2.3	10.4	0.0	20.5	0.5	13.9	318	107.8	3.5	3.7	66.1	1.7	12.7	552.4	0.7	8.3	1483	6.7	1123
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
bis(2-Chloroethoxy)methane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	-	ND	ND	ND	ND	ND	**0.25**	**0.078**	**0.041**	ND	ND	ND	ND	ND	ND	ND	**0.074**	ND	ND	ND	ND	ND	ND	ND	ND	**3.7**	ND	**0.22**
Butylbenzylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	-	**1.4**	ND	**0.72**	ND	**0.09**	ND	ND	ND	ND	ND	ND	**5.3**	ND	**13**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	5,780	**11**	**1.9**	**7.9**	**0.29**	**0.7**	ND	**0.29**	ND	**0.16**	ND	ND	**24**	**1.2**	**45**	**0.42**	**0.30**	**1.2**	**2.1**	ND	ND	ND	ND	**0.044**	ND	ND	ND	ND
Dibenzo[a,h]anthracene	-	**1.3**	**0.24**	**1.4**	**0.063**	**0.11**	ND	**0.050**	ND	ND	ND	ND	**3.1**	ND	**5.8**	ND	**0.054**	**0.20**	**0.33**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	-	**3.3**	**0.2**	**0.31**	**0.011**	**0.054**	ND	**0.032**	ND	**0.016**	ND	ND	**3**	ND	**14**	ND	**0.042**	**0.10**	**0.2**	**0.11**	ND	ND	**0.34**	ND	ND	ND	ND	ND
Diethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate (Dibutyl Phthalate)	-	ND	ND	**0.14**	ND	**0.019**	ND	ND	**0.023**	ND	ND	ND	ND	ND	ND	ND	**0.017**	ND	ND	ND	ND	**0.015**	ND	ND	ND	**0.016**	ND	**0.014**
Di-n-octylphthalate (Di-n-octyl phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.22**	ND	ND	ND
Fluoranthene	24,800	**22**	**3.8**	**14**	**0.37**	**1.4**	ND	**0.62**	ND	**0.39**	**0.042**	ND	**45**	**2.1**	**96**	**0.77**	**0.54**	**2.3**	**3.8**	ND	ND	ND	ND	**0.064**	ND	ND	ND	ND
Fluorene	24,800	**3.0**	**0.36**	**0.68**	ND	**0.12**	ND	**0.057**	ND	ND	ND	ND	**5.5**	ND	**21**	ND	ND	ND	**0.25**	**0.25**	ND	ND	**0.43**	ND	ND	ND	ND	ND
Hexachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	-	**4.2**	**0.85**	**5.0**	**0.21**	**0.33**	ND	**0.17**	ND	**0.08**	ND	ND	**9**	**0.65**	**19**	**0.42**	**0.21**	**0.68**	**1.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	4,160	**5.4**	**0.053**	**0.075**	**0.016**	**0.036**	ND	**0.031**	ND	ND	ND	ND	**1**	ND	**10**	**1.1**	ND	ND	**0.048**	ND	ND	ND	ND	ND	ND	ND	ND	**0.041**
Nitrobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	20,200	**21**	**2.2**	**7.0**	**0.18**	**1.2**	ND	**0.22**	ND	**0.33**	ND	ND	**45**	**1.2**	**120**	**1.1**	**0.14**	**1.5**	**2.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	18,600	**21**	**3.7**	**14**	**0.38**	**1.2**	ND	**0.64**	ND	**0.33**	**0.061**	ND	**45**	**2.1**	**85**	**1.2**	**0.56**	**2.1**	**5**	ND	ND	ND	ND	**0.06**	ND	ND	ND	ND
Total Petroleum Hydrocarbons																												
Gasoline Range Organics	1,040,000,000	ND	ND	ND	ND	ND	ND	ND	**210**	ND	ND	ND	ND	ND	**170**	**550**	**52**	ND	**29**	**75**	ND	ND	**470**	ND	ND	**5,400**	ND	**830**
Diesel Range Organics	127,000,000	**580**	**160**	**570**	ND	**68**	**1,300**	**510**	**2,000**	ND	**73**	ND	**1,300**	**360**	**2,600**	**7,200**	**670**	**150**	**2,500**	**4,400**	ND	ND	**2,700**	**210**	ND	**2,500**	ND	**78**
Total Petroleum Hydrocarbons	-	**910**	**360**	**1,500**	**110**	**140**	**2,400**	**790**	**2,000**	**150**	**130**	ND	**2,400**	**1,500**	**5,200**	**8,000**	**860**	**340**	**3,600**	**5,600**	ND	ND	**2,900**	**270**	ND	**3,300**	ND	**110**
Volatile Organic Compounds																												
1,1,1-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (methyl ethyl ketone)	-	ND	ND	ND	ND	ND	**0.021**	**0.0060**	ND	ND	ND	ND	ND	ND	**0.015**	**0.0057**	**0.0052**	**0.035**	**0.0061**	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (Methyl isobutyl ketone)	-	ND	ND	ND	ND	ND	**0.0023**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	-	**0.0130**	**0.011**	ND	ND	ND	**0.11**	**0.043**	ND	ND	ND	ND	**0.013**	ND	**0.063**	**0.035**	**0.040**	**0.025**	**0.027**	ND	ND	ND	ND	**0.017**	ND	ND	ND	ND
Benzene	691	ND	ND	ND	ND	ND	ND	ND	ND	**0.0021**	ND	ND	ND	ND	ND	**0.0054**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	**0.0029**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane (ethyl chloride)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3
Soil Analytical Data (2019 Sampling Event)
WMATA Northern Bus Facility

Boring/Sample ID		SB-01	SB-02	SB-04	SB-05	SB-06	SB-08	SB-11	SB-12	SB-14	SB-15	SB-16	SB-17	SB-17	SB-28	SB-29	SB-30	SB-32	SB-33	SB-34	SB-36	SB-40	SB-43	SB-43A	SB-46	SB-51	SB-59	SB-60
Sample Date		11/25/19	11/25/19	12/04/19	12/02/19	11/26/19	11/22/19	11/21/19	12/26/19	12/27/19	12/27/19	12/03/19	11/26/19	11/26/19	12/02/19	12/02/19	12/04/19	11/21/19	12/03/19	11/22/19	12/03/19	11/21/19	11/22/19	12/03/19	11/21/19	11/20/19	11/20/19	11/20/19
Sample depth collected (feet BLS)		11'	11'	7'	9'	11'	9'	1'	17'	5'	3'	1'	3'	11'	9'	1'	7'	1'	3'	10'	17'	19'	11'	1'	22'	10'	1'	5'
OVA-PID reading at sample depth (ppm)		1.6	0.9	0.0	6.9	2.8	11.7	102.2	300.3	2.3	10.4	0.0	20.5	0.5	13.9	318	107.8	3.5	3.7	66.1	1.7	12.7	552.4	0.7	8.3	1483	6.7	1123
Constituent	**Tier 1 DOEE Risk-Based Soil Screening Levels for Construction Worker Surficial Soil - Ingestion, Inhalation (Vapor emissions and particulates) and Dermal Contact (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**	**Results (mg/kg)**
Chloroform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0050**	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.062**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.2**	ND	**6.1**
Dibromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	3,180	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0059**	**0.061**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**8.0**
Isopropylbenzene (cumene)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0039**	**0.14**	ND	ND	ND	ND	ND	ND	**0.98**	ND	ND	**7.9**	ND	**1.7**
m&p-Xylenes	-	**0.0015**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0012**	ND	**0.0046**	**0.11**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.0**
Methyl Acetate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.017**	**0.38**	ND	ND	**0.0022**	ND	ND	ND	**0.78**	ND	ND	**18**	ND	**22**
Methylene chloride	-	**0.021**	**0.012**	**0.0056**	**0.005**	**0.012**	**0.014**	**0.0045**	ND	**0.02**	**0.016**	**0.016**	**0.019**	**0.0052**	**0.015**	**0.0065**	**0.031**	**0.0061**	**0.0098**	ND	**0.021**	**0.013**	ND	**0.04**	**0.0099**	ND	**0.010**	ND
Methyl-t-butyl ether (MTBE)	8,490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	-	**0.0014**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0023**	**0.055**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.27**	ND	ND	**0.016**	ND	**0.10**	ND
Toluene	64,600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0015**	**0.016**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.010**	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (Total)	23,900	**0.0029**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.0012**	ND	**0.0069**	**0.16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.0**
Total Solids (%)	NA	94	79	78	94	91	94	87	85	85	88	82	88	92	84	89	87	93	88	83	89	84	81	87	84	84	88	91

Notes:
ID = identification
BLS = below land surface
DC DOEE = Department of Energy and Environment
DCRBCA = District of Columbia Risk Based Corrective Action Screening Levels, Ju- 2011
µg/L = micrograms per liter or parts per billion (ppb)
mg/L = milligrams per liter or parts per million (ppm)
NA = Analyte not analyzed
ND = Analyte not detected above the laboratory minimum detection level (LMDL) for specified analyte
Bold = Value detected above LMDL
Orange highlighted values exceed DOEE RBCA Tier 1 soil screening levels

Table 4
Temporary Monitoring Well Construction Details
WMATA Northern Bus Facility

Temporary Monitoring Well	Well Diameter (in.)	Total Well Depth (feet BLS)	Screened Interval (feet BLS)	Installation Date	Filter Pack Type	Slot Size (in.)	Surface Completion	TOC Elevation (feet)
TMW-19S	2	17	7 - 17	10/14/22	Well Gravel Pack	0.010	Flush mount	161.053
TMW-20S	2	22.5	12.5 - 22.5	11/10/22	Well Gravel Pack	0.010	Flush mount	172.725
TMW-20D	2	40.0	30 - 40	11/07/22	Well Gravel Pack	0.010	Flush mount	170.818
TMW-21S	2	12.2	7.2 - 12.2	10/13/22	Well Gravel Pack	0.010	Flush mount	172.718
TMW-21D	2	40.4	35.4 - 40.4	10/27/22	Well Gravel Pack	0.010	Flush mount	172.094
TMW-22S	2	13.2	3.2 - 13.2	10/26/22	Well Gravel Pack	0.010	Flush mount	172.104
TMW-22D	2	28.3	23.3 - 28.3	10/26/22	Well Gravel Pack	0.010	Flush mount	172.205
TMW-23D	2	25.4	20.4 - 25.4	10/24/22	Well Gravel Pack	0.010	Flush mount	172.417

NOTES:

1. BLS = Below Land Surface.
2. TOC = Top of Casing.
3. NS = TOC not surveyed for stated monitoring well.

Table 5
Groundwater Analytical Data (November 2022 Sampling Event)
WMATA Northern Bus Facility

Well ID		TMW-19S	TMW-20S	TMW-20D	TMW-21S	TMW-21D	TMW-22S	TMW-22D	TMW-23D
Sample Date		11/02/22	11/11/22	11/11/22	11/02/22	11/02/22	11/02/22	11/02/22	11/02/22
Total Well Depth BLS (Feet)		17	22.5	39.9	12.2	40.4	13.2	28.3	25.3
Ground Water Level BLS (Feet)		6.2	14.7	14.5	7.2	9.6	6.15	6.3	12
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
Metals (Total)									
Mercury	-	NA	NA	NA	NA	NA	NA	NA	NA
Barium	-	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	-	NA	NA	NA	NA	NA	NA	NA	NA
Copper	-	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	-	NA	NA	NA	NA	NA	NA	NA	NA
Silver	-	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	-	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	-	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	-	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	-	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	-	NA	NA	NA	NA	NA	NA	NA	NA
Lead	-	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	-	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	-	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated biphenyls									
Aroclor (Total)	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1262	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1268	-	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds									
1,1'-Biphenyl	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4,5-Tetrachlorobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	-	NA	NA	NA	NA	NA	NA	NA	NA

Table 5
Groundwater Analytical Data (November 2022 Sampling Event)
WMATA Northern Bus Facility

Well ID		TMW-19S	TMW-20S	TMW-20D	TMW-21S	TMW-21D	TMW-22S	TMW-22D	TMW-23D
Sample Date		11/02/22	11/11/22	11/11/22	11/02/22	11/02/22	11/02/22	11/02/22	11/02/22
Total Well Depth BLS (Feet)		17	22.5	39.9	12.2	40.4	13.2	28.3	25.3
Ground Water Level BLS (Feet)		6.2	14.7	14.5	7.2	9.6	6.15	6.3	12
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
2,6-Dinitrotoluene	-	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	-	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	-	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	-	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	-	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	-	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	-	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	-	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol (4,6 dinitro-o-cresol)	-	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	-	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol (p-chloro-m-cresol)	-	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline (P-chloroaniline)	-	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	-	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	-	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	-	NA	NA	NA	NA	NA	NA	NA	NA
Acetophenone	-	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	-	NA	NA	NA	NA	NA	NA	NA	NA
Atrazine	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzaldehyde	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]anthracene	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[a]pyrene	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[b]fluoranthene	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[g,h,i]perylene	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo[k]fluoranthene	-	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	-	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	-	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	-	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	-	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	-	NA	NA	NA	NA	NA	NA	NA	NA
Caprolactam	-	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	-	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	-	NA	NA	NA	NA	NA	NA	NA	NA

Table 5
Groundwater Analytical Data (November 2022 Sampling Event)
WMATA Northern Bus Facility

Well ID		TMW-19S	TMW-20S	TMW-20D	TMW-21S	TMW-21D	TMW-22S	TMW-22D	TMW-23D
Sample Date		11/02/22	11/11/22	11/11/22	11/02/22	11/02/22	11/02/22	11/02/22	11/02/22
Total Well Depth BLS (Feet)		17	22.5	39.9	12.2	40.4	13.2	28.3	25.3
Ground Water Level BLS (Feet)		6.2	14.7	14.5	7.2	9.6	6.15	6.3	12
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
Dibenzo[a,h]anthracene	-	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	-	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	-	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	-	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate (Dibutyl Phthalate)	-	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate (Di-n-octyl phthalate)	-	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	-	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	-	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	-	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	-	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	-	NA	NA	NA	NA	NA	NA	NA	NA
Indeno[1,2,3-cd]pyrene	-	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	-	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	730	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	-	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	-	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	-	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	-	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	-	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	-	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	-	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons									
Gasoline Range Organics (C6-C10) GRO	7,300	ND	ND	ND	ND	ND	**710**	**540**	**440**
Diesel Range Organics (C10-C28) DRO	3,570	ND	ND	ND	ND	ND	ND	ND	**1,200**
Total Petroleum Hydrocarbons (C8-C40) TPH	-	ND	ND	ND	ND	ND	ND	ND	**1,100**
Volatile Organic Compounds									
1,1,1-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND

Table 5
Groundwater Analytical Data (November 2022 Sampling Event)
WMATA Northern Bus Facility

Well ID		TMW-19S	TMW-20S	TMW-20D	TMW-21S	TMW-21D	TMW-22S	TMW-22D	TMW-23D
Sample Date		11/02/22	11/11/22	11/11/22	11/02/22	11/02/22	11/02/22	11/02/22	11/02/22
Total Well Depth BLS (Feet)		17	22.5	39.9	12.2	40.4	13.2	28.3	25.3
Ground Water Level BLS (Feet)		6.2	14.7	14.5	7.2	9.6	6.15	6.3	12
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
1,2-Dibromoethane	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	-	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (methyl ethyl ketone)	-	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	-	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (Methyl isobutyl ketone)	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	-	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane (ethyl chloride)	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	-	ND	ND	ND	ND	ND	ND	**1.2**	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	-	ND	**14**	**11**	**15**	**5.8**	**4.1**	**2.0**	ND
cis-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	-	ND	ND	ND	ND	ND	ND	ND	**3.6**
Dibromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	ND	ND	ND	ND	ND	ND	ND	**1.3**
Isopropylbenzene (cumene)	-	ND	ND	ND	ND	ND	**1.4**	ND	**3.5**
m&p-Xylenes	-	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	ND	ND	ND	ND	ND	ND	**7.8**
Methylene chloride (Dichloromethane)	-	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether (MTBE)	50	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	-	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	-	ND	ND	ND	ND	ND	ND	ND	ND

Table 5
Groundwater Analytical Data (November 2022 Sampling Event)
WMATA Northern Bus Facility

	Well ID	TMW-19S	TMW-20S	TMW-20D	TMW-21S	TMW-21D	TMW-22S	TMW-22D	TMW-23D
	Sample Date	11/02/22	11/11/22	11/11/22	11/02/22	11/02/22	11/02/22	11/02/22	11/02/22
	Total Well Depth BLS (Feet)	17	22.5	39.9	12.2	40.4	13.2	28.3	25.3
	Ground Water Level BLS (Feet)	6.2	14.7	14.5	7.2	9.6	6.15	6.3	12
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
Tetrachloroethene (PCE)	-	ND	**300**	**260**	**150**	**470**	**160**	**290**	**1.6**
Toluene	1,000	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	-	ND	**4.3**	**2.4**	**2.0**	ND	ND	ND	ND
trans-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	-	ND	**24**	**17**	**24**	**18**	**28**	**5.1**	ND
Trichlorofluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	-	ND	**1.4**	ND	**3.2**	ND	ND	ND	ND
Xylenes (Total)	10,000	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ID = identification
BLS = below land surface
DC DOEE = Department of Energy and Environment
DCRBCA = District of Columbia Risk Based Corrective Action Screening Levels, Ju- 2011
µg/L = micrograms per liter or parts per billion (ppb)
mg/L = milligrams per liter or parts per million (ppm)
NA = Analyte not analyzed
ND = Analyte not detected above the laboratory minimum detection level (LMDL) for specified analyte
Bold = Value detected above LMDL
Orange highlight indicates exceedances of DOEE Tier 1 Screening Levels for Groundwater criteria.

Table 6
Groundwater Analaytical Summary Table
(January 2022 Sampling Event)
WMATA Northern Bus Facility

Well ID		MW-001	MW-002	MW-004	TMW-002	TMW-004S	TMW-004D	TMW-006S	TMW-006D	TMW-008S	TMW-008D	TMW-009S	TMW-009D	TMW-011	TMW-012S	TMW-012D	TMW-13S	TMW-13D	TMW-14S	TMW-014D	TMW-015	TMW-016	TMW-017	TMW-018
Sample Date		01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22
Total Well Depth BLS (Feet)		27.6	28.3	38.6	18.8	25.7	26.9	25.7	28.5	19.4	24.5	20.0	23.8	13.6	19.6	25.5	15.8	21.2	15.0	19.9	18.6	18.6	16.8	17.7
Ground Water Level BLS (Feet)		16.3	14.7	18.2	15.0	14.2	13.9	13.6	12.7	13.6	14.3	17.8	21.2	8.9	11.2	11.9	5.4	8.4	10.6	12.7	12.1	11.0	10.7	13.2
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
Metals (Total)																								
Mercury	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	-	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	-	**3.2**	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	-	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	-	ND	**3.4**	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Polychlorinated biphenyls																								
Aroclor (Total)	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1016	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1262	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1268	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds																								
1,1'-Biphenyl	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetrachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,3,4,6-Tetrachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3&4-Methylphenol	-	ND	ND	ND	ND	ND	ND	ND	ND	**25**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.76**	ND	**0.62**
3,3'-Dichlorobenzidine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol (4,6 dinitro-o-cresol)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl-phenylether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol (p-chloro-m-cresol)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline (P-chloroaniline)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl-phenylether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetophenone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Atrazine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzaldehyde	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]pyrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6
Groundwater Analaytical Summary Table
(January 2022 Sampling Event)
WMATA Northern Bus Facility

Well ID		MW-001	MW-002	MW-004	TMW-002	TMW-004S	TMW-004D	TMW-006S	TMW-006D	TMW-008S	TMW-008D	TMW-009S	TMW-009D	TMW-011	TMW-012S	TMW-012D	TMW-13S	TMW-13D	TMW-14S	TMW-014D	TMW-015	TMW-016	TMW-017	TMW-018
Sample Date		01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22
Total Well Depth BLS (Feet)		27.6	28.3	38.6	18.8	25.7	26.9	25.7	28.5	19.4	24.5	20.0	23.8	13.6	19.6	25.5	15.8	21.2	15.0	19.9	18.6	18.6	16.8	17.7
Ground Water Level BLS (Feet)		16.3	14.7	18.2	15.0	14.2	13.9	13.6	12.7	13.6	14.3	17.8	21.2	8.9	11.2	11.9	5.4	8.4	10.6	12.7	12.1	11.0	10.7	13.2
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
bis(2-Chloroisopropyl)ether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butylbenzylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate (Dibutyl Phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate (Di-n-octyl phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	730	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.6**	**5.2**
Pyrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons																								
Gasoline Range Organics (C6-C10) GRO	7,300	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diesel Range Organics (C10-C28) DRO	3,570	**660**	**4,400**	**990**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons (C8-C40) TPH	-	**770**	**4,900**	**1,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds																								
1,1,1-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (methyl ethyl ketone)	-	ND	ND	ND	ND	ND	ND	ND	ND	**12**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (Methyl isobutyl ketone)	-	ND	ND	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	-	ND	ND	ND	ND	ND	ND	ND	ND	**39**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	**1.1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane (ethyl chloride)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	-	ND	ND	ND	ND	**14**	**17**	**90**	**170**	ND	ND	ND	ND	**24**	**15**	**68**	ND	**22**	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 6
Groundwater Analaytical Summary Table
(January 2022 Sampling Event)
WMATA Northern Bus Facility

	Well ID	MW-001	MW-002	MW-004	TMW-002	TMW-004S	TMW-004D	TMW-006S	TMW-006D	TMW-008S	TMW-008D	TMW-009S	TMW-009D	TMW-011	TMW-012S	TMW-012D	TMW-13S	TMW-13D	TMW-14S	TMW-014D	TMW-015	TMW-016	TMW-017	TMW-018
	Sample Date	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/07/22	01/11/22	01/11/22	01/11/22	01/11/22	01/11/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22	01/10/22
	Total Well Depth BLS (Feet)	27.6	28.3	38.6	18.8	25.7	26.9	25.7	28.5	19.4	24.5	20.0	23.8	13.6	19.6	25.5	15.8	21.2	15.0	19.9	18.6	18.6	16.8	17.7
	Ground Water Level BLS (Feet)	16.3	14.7	18.2	15.0	14.2	13.9	13.6	12.7	13.6	14.3	17.8	21.2	8.9	11.2	11.9	5.4	8.4	10.6	12.7	12.1	11.0	10.7	13.2
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
Cyclohexane	-	ND	**1.3**	**1.4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**62**	ND	ND	ND	ND	ND	**5**	ND	ND	ND	ND
Dibromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (cumene)	-	ND	**1.6**	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**90**	ND	ND	ND	ND	ND	**4.9**	ND	ND	ND	ND
m&p-Xylenes	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	**2.2**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**100**	ND	ND	ND	ND	ND	**15**	ND	ND	ND	ND
Methylene chloride (Dichloromethane)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-t-butyl ether (MTBE)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.74**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	-	ND	ND	ND	ND	**520**	**690**	**100**	**98**	ND	ND	ND	ND	ND	**66**	**160**	ND	**33**	ND	ND	ND	ND	ND	ND
Toluene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	-	ND	ND	ND	ND	ND	ND	**4.5**	**6.2**	ND	ND	ND	ND	**2**	**43**	**58**	ND	**7.7**	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	-	ND	ND	ND	ND	**38**	**48**	**150**	**33**	ND	ND	ND	ND	**1.8**	**21**	**220**	ND	**21**	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	-	ND	ND	ND	ND	ND	ND	**9.2**	**22**	ND	ND	ND	ND	**43**	**2.5**	**5.3**	ND	**4.7**	ND	ND	ND	ND	ND	ND
Xylenes (Total)	10,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
ID = identification
BLS = below land surface
DC DOEE = Department of Energy and Environment
DCRBCA = District of Columbia Risk Based Corrective Action Screening Levels, Ju- 2011
µg/L = micrograms per liter or parts per billion (ppb)
mg/L = milligrams per liter or parts per million (ppm)
NA = Analyte not analyzed
ND = Analyte not detected above the laboratory minimum detection level (LMDL) for specified analyte
Bold = Value detected above LMDL
Orange highlight indicates exceedances of DOEE Tier 1 screening levels for groundwater.

Table 7
Groundwater Analaytical Summary Table
(December 2019 Sampling Event)
WMATA Northern Bus Facility

Well ID		TMW-01		TMW-02		TMW-03		TMW-04		TMW-05		TMW-08		TMW-10		TMW-11		TMW-16	
Sample Date		12/11/19		12/13/19		12/11/19		12/11/19		12/09/19		12/12/19		12/06/19		12/06/19		12/12/19	
Total Well Depth		25.0'		24.3'		19.1'		17.5'		20.05'		15.18'		25.37'		20.8'		10'	
Ground Water Level BLS		18.1'		14.2'		16.3'		7.7'		13.01'		11.03'		16.38'		8.96'		4.2'	
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**		**Results (µg/L)**		**Results (µg/L)**		**Results (µg/L)**		**Results (µg/L)**		**Results (µg/L)**		**Results (µg/L)**		**Results (µg/L)**		**Results (µg/L)**	
Metals		Filtered	Total	Filtered	Total	Filtered	Total	Filtered	Total	Filtered	Total	Filtered	Total	Filtered	Total	Filtered	Total	Filtered	Total
Mercury	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	-	**360**	**370**	**280**	**300**	**130**	**130**	**110**	**100**	-	**260**	**340**	**340**	**91**	**98**	**130**	**160**	**310**	**300**
Chromium	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Antimony	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	-	**2.6**	**3.4**	**2**	**2.1**	ND	ND	ND	ND	-	**4.1**	ND	ND	ND	ND	**3.4**	**6.4**	ND	ND
Beryllium	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	-	ND	**15**	ND	**10**	ND	ND	ND	ND	-	**9.9**	ND	ND	ND	**3.7**	ND	**8.9**	ND	ND
Selenium	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	-	ND	ND	ND	ND	ND	ND	ND	ND	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated biphenyls																			
Aroclor (Total)	-	**0.64**		ND		ND		ND		ND		ND		ND		ND		**0.44**	
Aroclor-1016	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aroclor-1221	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aroclor-1232	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aroclor-1242	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aroclor-1248	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aroclor-1254	-	**0.64**		ND		ND		ND		ND		ND		ND		ND		**0.44**	
Aroclor-1260	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aroclor-1262	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Aroclor-1268	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Semi-Volatile Organic Compounds																			
1,1'-Biphenyl	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,2,4,5-Tetrachlorobenzene	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,3,4,6-Tetrachlorophenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,5-Trichlorophenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-Trichlorophenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dichlorophenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dimethylphenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrophenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-Dinitrotoluene	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-Dinitrotoluene	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chloronaphthalene	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Chlorophenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Methylnaphthalene	-	ND		ND		ND		**41**		**13**		**3.9**		ND		ND		ND	
2-Methylphenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitroaniline	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-Nitrophenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
3&4-Methylphenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
3,3'-Dichlorobenzidine	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
3-Nitroaniline	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,6-Dinitro-2-methylphenol (4,6 dinitro-o-cresol)	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Bromophenyl-phenylether	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloro-3-methylphenol (p-chloro-m-cresol)	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chloroaniline (P-chloroaniline)	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Chlorophenyl-phenylether	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitroaniline	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-Nitrophenol	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acenaphthene	-	ND		ND		ND		**0.39**		ND		ND		ND		ND		ND	
Acenaphthylene	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Acetophenone	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Anthracene	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Atrazine	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzaldehyde	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	
Benzo[a]anthracene	-	ND		ND		ND		ND		ND		ND		ND		ND		ND	

Table 7
Groundwater Analaytical Summary Table
(December 2019 Sampling Event)
WMATA Northern Bus Facility

	Well ID	TMW-01	TMW-02	TMW-03	TMW-04	TMW-05	TMW-08	TMW-10	TMW-11	TMW-16
	Sample Date	12/11/19	12/13/19	12/11/19	12/11/19	12/09/19	12/12/19	12/06/19	12/06/19	12/12/19
	Total Well Depth	25.0'	24.3'	19.1'	17.5'	20.05'	15.18'	25.37'	20.8'	10'
	Ground Water Level BLS	18.1'	14.2'	16.3'	7.7'	13.01'	11.03'	16.38'	8.96'	4.2'
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
Benzo[a]pyrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[g,h,i]perylene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethoxy)methane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroethyl)ether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Chloroisopropyl)ether	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
bis(2-Ethylhexyl)phthalate	-	ND	ND	ND	ND	ND	**11**	ND	ND	**170**
Butylbenzylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Caprolactam	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo[a,h]anthracene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	-	ND	ND	ND	**3.3**	ND	ND	ND	ND	ND
Diethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethylphthalate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butylphthalate (Dibutyl Phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octylphthalate (Di-n-octyl phthalate)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	-	ND	ND	ND	**2.3**	ND	ND	ND	ND	ND
Fluorene	-	ND	ND	ND	**4.9**	ND	ND	ND	ND	ND
Hexachlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno[1,2,3-cd]pyrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	730	ND	ND	ND	**2.6**	ND	ND	ND	ND	ND
Nitrobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso-di-n-propylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	-	ND	ND	ND	**9.8**	ND	ND	ND	ND	ND
Phenol	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons										
Gasoline Range Organics (C6-C10) GRO	7,300	ND	ND	ND	ND	ND	**1,200**	**280**	**310**	ND
Diesel Range Organics (C10-C28) DRO	3,570	**2,300**	**3,400**	**3,200**	**3,100**	**28,000**	**890**	**590**	ND	ND
Total Petroleum Hydrocarbons (C8-C40) TPH	-	**2,700**	**4,000**	**3,800**	**3,400**	**35,000**	**1,100**	**660**	ND	ND
Volatile Organic Compounds										
1,1,1-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	-	ND	ND	ND	ND	ND	ND	ND	**5.5**	ND
1,2,3-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene (p-Dichlorobenzene)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (methyl ethyl ketone)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (Methyl isobutyl ketone)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	5	ND	ND	ND	**0.92**	ND	**2.1**	ND	ND	ND

Table 7
Groundwater Analaytical Summary Table
(December 2019 Sampling Event)
WMATA Northern Bus Facility

	Well ID	TMW-01	TMW-02	TMW-03	TMW-04	TMW-05	TMW-08	TMW-10	TMW-11	TMW-16
	Sample Date	12/11/19	12/13/19	12/11/19	12/11/19	12/09/19	12/12/19	12/06/19	12/06/19	12/12/19
	Total Well Depth	25.0'	24.3'	19.1'	17.5'	20.05'	15.18'	25.37'	20.8'	10'
	Ground Water Level BLS	18.1'	14.2'	16.3'	7.7'	13.01'	11.03'	16.38'	8.96'	4.2'
Constituent	**DOEE Tier 1 Screening Levels for Ground Water (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**	**Results (µg/L)**
Bromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane (ethyl chloride)	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	-	ND	ND	ND	ND	ND	**1.5**	**4.7**	**190**	ND
cis-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	-	ND	**1.6**	ND	ND	**2.6**	**23**	**9.3**	ND	ND
Dibromochloromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (cumene)	-	ND	**8.5**	ND	**13**	**5.8**	**41**	**8.6**	ND	ND
m&p-Xylenes	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylcyclohexane	-	ND	**3.6**	ND	**1.3**	**5.3**	**64**	**19**	ND	ND
Methylene chloride (Dichloromethane)	-	ND	ND	ND	**3.0**	ND	ND	ND	ND	ND
Methyl-t-butyl ether (MTBE)	50	**1.3**	**2.2**	ND	ND	ND	ND	ND	ND	**0.54**
o-Xylene	-	ND	ND	ND	ND	**1.4**	ND	ND	ND	ND
Styrene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	-	ND	ND	ND	ND	ND	ND	**2.5**	**47**	ND
Toluene	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	-	ND	ND	ND	ND	ND	ND	**1.4**	**10**	ND
trans-1,3-Dichloropropene	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	-	ND	ND	ND	ND	ND	ND	**11**	**76**	ND
Trichlorofluoromethane	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	-	ND	ND	ND	ND	ND	**4.5**	**4.1**	**150**	ND
Xylenes (Total)	10,000	ND	ND	ND	ND	**1.4**	ND	ND	ND	ND

Notes:
ID = identification
BLS = below land surface
DC DOEE = Department of Energy and Environment
DCRBCA = District of Columbia Risk Based Corrective Action Screening Levels, Ju- 2011
µg/L = micrograms per liter or parts per billion (ppb)
mg/L = milligrams per liter or parts per million (ppm)
NA = Analyte not analyzed
ND = Analyte not detected above the laboratory minimum detection level (LMDL) for specified analyte
Bold = Value detected above LMDL
Orange highlight indicates exceedances of DOEE Tier 1 screening levels for groundwater.

Table 8
Groundwater Elevation Data Summary
WMATA Northern Bus Facility

	EXISTING MONITORING WELL I.D.											
	MW-001			MW-002			MW-003			MW-004		
DIAMETER (in)	2			2			2			2		
WELL DEPTH (ft)	27.60			28.30			27.90			38.60		
SCREEN INTERVAL	17.6 - 27.6			18.3 - 28.3			17.9 - 27.9			28.6 - 38.6		
TOC ELEVATION	169.88			169.80			169.33			169.63		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
1/5/2022	153.83	16.05	---	155.40	14.40	---	152.33	17.00	0.25	151.73	17.90	---
12/14/22	153.63	16.25	---	154.54	15.26	---	150.33	19.00	1.25	151.11	18.52	---

	TEMPORARY MONITORING WELL I.D.											
	TMW-19S			TMW-20S			TMW-20D			TMW-21S		
DIAMETER (in)	2			2			2			2		
WELL DEPTH (ft)	17			22.5			40			12.2		
SCREEN INTERVAL	7 - 17			12.5 - 22.5			30 - 40			7.2 - 12.2		
TOC ELEVATION	161.05			172.73			170.82			172.72		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
12/14/22	---	NM	---	156.01	16.72	---	157.33	13.49	---	165.60	7.12	---

	TEMPORARY MONITORING WELL I.D.											
	TMW-21D			TMW-22S			TMW-22D			TMW-23D		
DIAMETER (in)	2			2			2			2		
WELL DEPTH (ft)	40.4			13.2			28.30			25.35		
SCREEN INTERVAL	35.4 - 40.4			3.2 - 13.2			23.3 - 28.3			20.35 - 25.35		
TOC ELEVATION	172.09			172.10			172.21			172.42		
DATE	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**	**ELEV**	**DTW**	**FP**
12/14/22	162.35	9.74	---	166.00	6.10	---	165.96	6.25	---	160.10	12.32	---

Notes:

in = inch
ft = feet
ELEV = Elevation
DTW - Depth to Water (feet below top of casing)
FP = Free product (thickness mesaured in feet)
NM = No measurement taken

FIGURES

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Environmental Services

2930 Eskridge Road,
Fairfax, Virginia 22031
Tel (703) 698-9300

Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

USGS Topographic Map

Drawn By:

Steven Dier

Project Manager:

Jeffrey Martineau

Figure Legend:

NORTH

0 500' 1000'
APPROXIMATE SCALE IN FEET

Project Number:

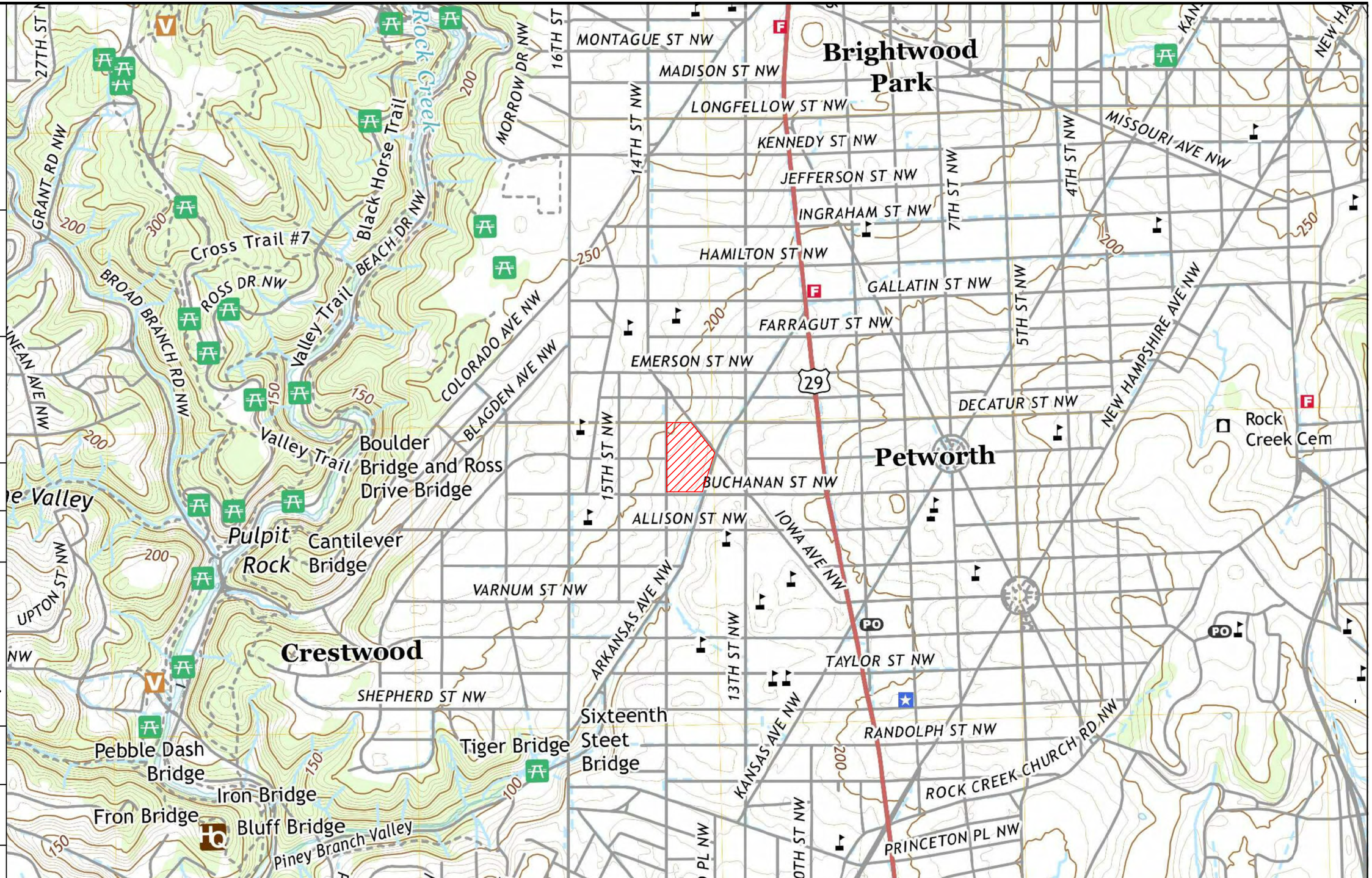
0444100

Figure Date:

11-9-2022

Figure Number:

1



LEGEND:

SUBJECT PROPERTY

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Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Site Layout Map – Existing Conditions

Drawn By:

Steven Dier

Project Manager:

Jeffrey Martineau

Figure Legend:

NORTH

FIGURE NOT TO SCALE

Project Number:

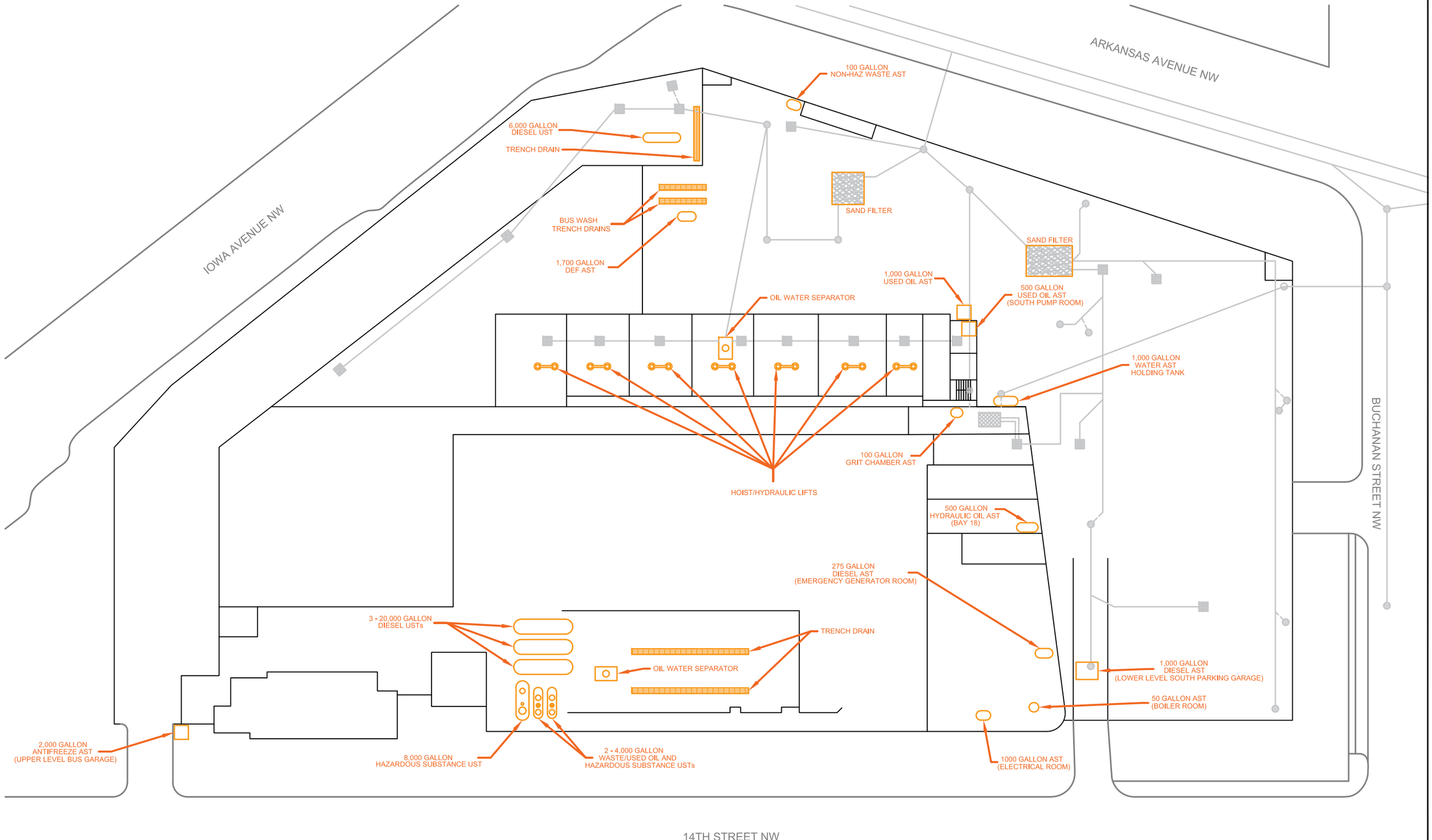
0444100

Figure Date:

08-11-2022

Figure Number:

2



NOTE: All locations are approximate and must be field verified.

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Tel (703) 698-9300

Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Soil Sample Location & Exceedance Map

Drawn By:

Steven Dier

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

0 50' 100'
APPROXIMATE SCALE IN FEET

Project Number:

0444100

Figure Date:

11-02-2022

Figure Number:

3

LEGEND:

- FENCING
- RIGHT OF WAY EASEMENT
- HISTORICAL SOIL SAMPLING LOCATIONS - VERSAR, INC. (JULY/SEPTEMBER 2002)
- SOIL BORING/SAMPLE LOCATIONS (2019)
- SOIL BORING/TEMPORARY MONITORING WELL LOCATIONS (2021)
- SOIL BORING/SAMPLE LOCATION (2022)
- (172.28) TOP OF CONCRETE ELEVATION
- APPROXIMATE EXTENT OF METALS AND/OR PETROLEUM-RELATED SOIL IMPACTS ABOVE DOEE TIER 1 SCREENING LEVELS FOR CONSTRUCTION WORKERS (OCTOBER/DECEMBER 2021 DATA)

SB-04	
12/04/19	SAMPLE ID
7'	SAMPLE DATE
1,000	SAMPLE DEPTH (ft BLS)
8.5	LEAD (mg/kg)
8.5	ARSENIC (mg/kg)
8.8	BENZO(a)ANTHRACENE (mg/kg)
12	BENZO(a)PYRENE (mg/kg)
1.4	BENZO(b)FLUORANTHENE (mg/kg)
	DIBENZO(a,h)ANTHRACENE (mg/kg)

MAGENTA VALUES EXCEED DOEE RBCA TIER 1 SOIL SCREENING LEVELS

*PLEASE NOTE ONLY SOIL SAMPLE LOCATIONS THAT CONTAIN CONSTITUENTS WHICH EXCEED THESE VALUES WERE PROVIDED A SOIL ANALYTICAL DATA SUMMARY.

Note 1: For soils located within the structure highlighted as exceeding established criteria, due to data being limited to discrete sample locations and depths from each boring, the soil excavated shall either be assumed to exceed established criteria from the surface to a minimum depth of the laboratory sample, or the soils can be inspected and screened in the field and verified with laboratory analysis as detailed in the section of this report titled Excavation of Soil without Documented COC Exceedances

SB-28
12/2/19
9'
410
5.9
49
39
50
5.8

SB-65
10/14/22
10'
NA
NA
2.5
2.5
3.3
0.45

SB-64	SB-64
10/10/22	10/10/22
6'	14'-15'
NA	NA
NA	NA
0.87	ND
0.74	ND
1.1	1.3
0.11	ND

SB-01
11/25/19
11'
71
1.3
11
9.9
12
1.3

SB-04
12/04/19
7'
1,000
8.5
8.5
8.8
12
1.4

SB-17
11/26/19
3'
250
3.7
26
20
27
3.1

SB-62	SB-62
10/10/22	10/10/22
6'	14'-16'
NA	NA
NA	NA
0.13	1.7
0.12	1.6
0.19	2.1
ND	0.27

SB-68
11/10/22
6'-8'
NA
NA
NA
NA
NA
NA

SB-69
11/10/22
2'-4'
NA
NA
NA
NA
NA
NA

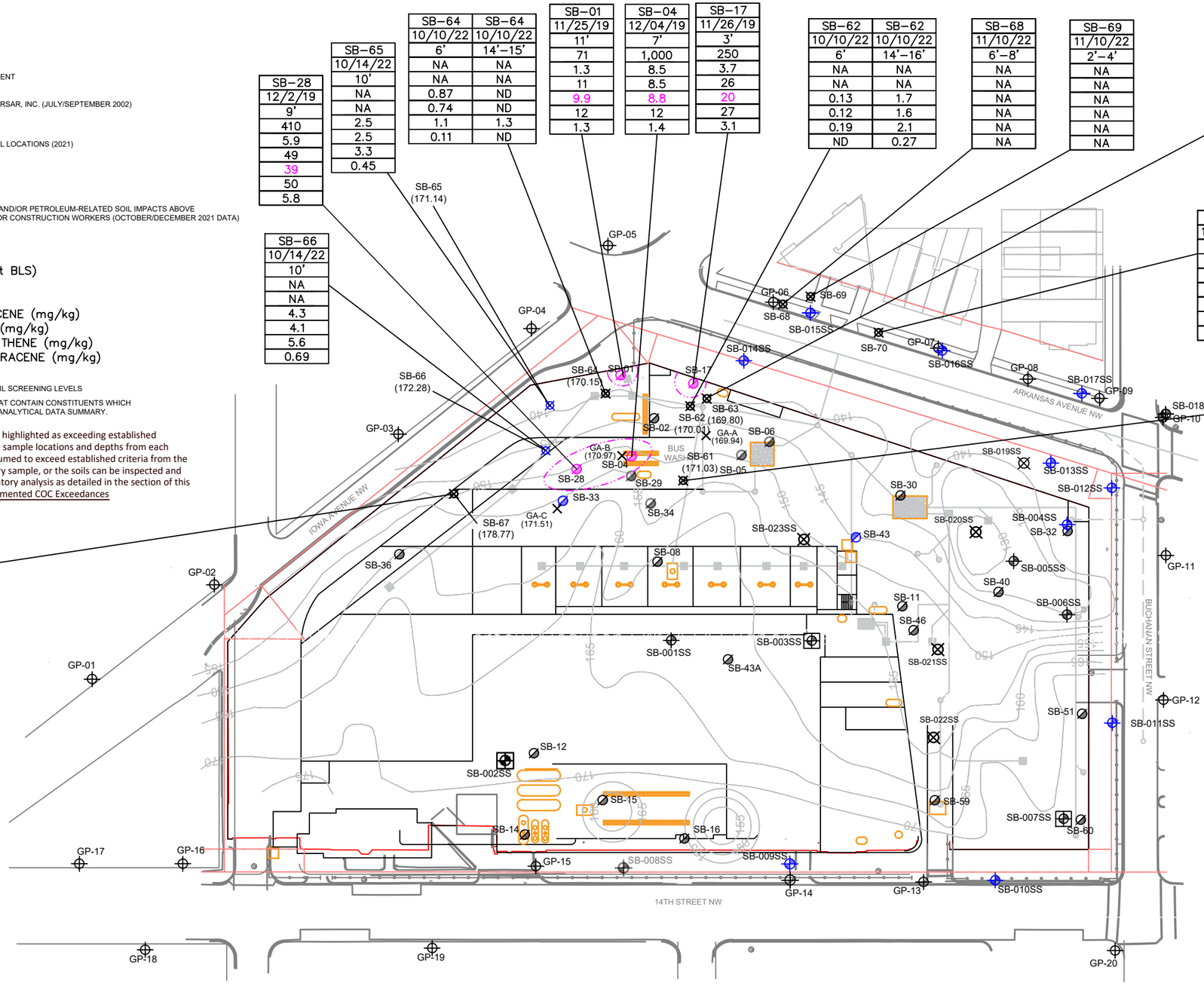
SB-63	SB-63
10/10/22	10/10/22
6'	14'
NA	NA
NA	NA
0.46	1.8
0.43	1.7
0.56	2.7
0.081	0.27

SB-66
10/14/22
10'
NA
NA
4.3
4.1
5.6
0.69

SB-70
11/07/22
6'-8'
NA
NA
NA
NA
NA
NA

SB-61	SB-61
10/14/22	10/14/22
2'	10'
NA	NA
NA	NA
1.1	ND
1.1	ND
1.6	ND
0.19	ND

SB-67	SB-67
10/14/22	10/10/22
4'	8'-10'
NA	NA
NA	NA
ND	ND
ND	ND
0.26	0.054
ND	ND



Note 2: For soils located outside of the structure, due to data being limited to discrete sample locations and depths from each boring, the soil excavated shall either be assumed to exceed established criteria from the surface to a minimum depth of the laboratory sample. Additional soil samples can be collected from those areas requiring handling or removal as part of proposed construction activities. Any soil identified as containing arsenic concentrations exceeding DOEE Tier 1 Construction Worker should be handled as detailed in Section 5 of the SGMMP.

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Tel (703) 698-9300

Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Soil Boring Impact Data

Drawn By:

Steven Dier

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

Project Number:

0444100

Figure Date:

11-30-2022

Figure Number:

4

Soil Boring Impact Data

SB-01 — 11/25/2019

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
	0.1	N
165'	0.3	N
	0.8	N
	0.7	N
160'	0.6	N
SB-01(11')	1.6	Y
	1.0	N
155'	1.2	N
	231.8	Y
150'	379.0	Y

SB-02 — 11/25/2019

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
	0.7	N
165'	0.9	N
	0.6	N
	0.6	Y
160'	0.7	N
SB-02(11')	0.9	N
155'	167.8	Y
	123.5	Y
	1.7	Y
150'	113.1	Y

SB-04 — 12/01/2019

Elevation 171'	OVA-PID Response	Stain/Odor (Y/N)
170'		
	0.3	N
	0.1	N
165'		
SB-04(7')	0.0	N
	0.0	N
160'	0.0	N
	187.5	Y
155'	198.9	Y
	336.0	Y
	153.6	Y
151'	79.8	Y

SB-05 — 12/02/2019

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
	0.8	N
165'	0.1	N
	0	N
SB-05(9')	0.2	N
160'	6.9	N
	147.0	N
155'	142.2	Y
	127.3	Y
	162.6	Y
150'	111.6	Y

SB-06 — 11/26/2019

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
	0.0	N
165'	0.0	N
	0.0	N
	0.1	N
160'	0.6	N
SB-06(11')	2.8	Y
155'	74.2	Y

SB-17 — 11/26/2019

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
	0.1	N
SB-17(3')	20.5	N
165'		
	0.2	N
	0.4	N
160'	0.5	N
	0.5	N
155'	0.6	N
	0.0	N
150'	95.5	Y

SB-28 — 12/02/2019

Elevation 171'	OVA-PID Response	Stain/Odor (Y/N)
170'		
	1.1	Y
	3.9	Y
165'	1.7	Y
	13.1	Y
SB-28(9')		
160'	13.9	Y
	11.2	Y
	31.4	Y

SB-29 — 12/02/2019

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
SB-29(1')		
	311.0	Y
165'	144.4	Y
	242.9	Y
	256.9	Y
160'	265.6	Y
	363.6	Y
155'	60.5	Y

SB-61 — 10/07/2022

Elevation 171'	OVA-PID Response	Stain/Odor (Y/N)
170'		
SB-61SS(2')	48	Y
	4	N
165'	0	N
	0	N
161'		
SB-61SS(10')	100+	Y

SB-62 — 10/07/2022

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
	0.1	N
	0.1	N
165'		
SB-62SS(6')	0.5	N
	0.2	N
	0.1	N
160'	0.5	N
	0.9	Y
155'		
SB-62SS(14-16')	217.3	Y
	Wet	Y
150'	Wet	Y

SB-63 — 10/07/2022

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
	0.9	N
	0.6	N
165'		
SB-63SS(6')	0.7	N
	0.9	N
	0.8	N
160'	0.8	N
SB-63SS(14')	102.8	Y
155'		
	163.1	Y
	240.7	Y
150'	Wet	Y

SB-64 — 10/07/2022

Elevation 170'	OVA-PID Response	Stain/Odor (Y/N)
	0.1	N
	0.1	N
165'		
SB-64SS(6')	1.0	N
	0.5	N
	0.4	N
160'	1.1	Y
	0.7	Y
155'		
SB-64SS(14-15')	9.2	Y

SB-65 — 10/07/2022

Elevation 171'	OVA-PID Response	Stain/Odor (Y/N)
170'		
	0.7	N
	1.2	N
165'		
SB-65SS(10')	1.1	N
160'		
156'	1.2	N

SB-66 — 10/07/2022

Elevation 172'	OVA-PID Response	Stain/Odor (Y/N)
	1.6	Y
170'		
	1.7	N
165'		
SB-66SS(10')	1.8	N
160'		
157'	1.4	N

SB-67 — 10/07/2022

Elevation 179'	OVA-PID Response	Stain/Odor (Y/N)
	8	N
175'		
SB-67SS(4')	28	N
	8	Y
165'		
	2.4	N
170'		
SB-67SS(8-10')		
165'		
	3	N
	1.4	N
160'		
	1.3	N

Sample ID in red indicates exceedance of Tier 1 - Construction Worker
Groundwater table (estimated based on presence of wet soils)
Soil sample collection zone

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Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Groundwater Sample Location & Exceedence Map

Drawn By:

Steven Dier

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

0 40' 80'
APPROXIMATE SCALE IN FEET

Project Number:

0444100

Figure Date:

11-22-2022

Figure Number:

5

MW-002	
01/07/22	TWD 28.3'
bis(2-Ethylhexl)phthalate	ND
Diesel Range Organics	4,400
cis-1,2-Dichloroethene	ND
Tetrachloroethene (PCE)	ND
Trichloroethene (TCE)	ND
Vinyl chloride	ND
Aroclor (Total)	NA

TMW-05	
12/09/19	TWD 20.05'
bis(2-Ethylhexl)phthalate	ND
Diesel Range Organics	28,000
cis-1,2-Dichloroethene	ND
Tetrachloroethene (PCE)	ND
Trichloroethene (TCE)	ND
Vinyl chloride	ND
Aroclor (Total)	ND

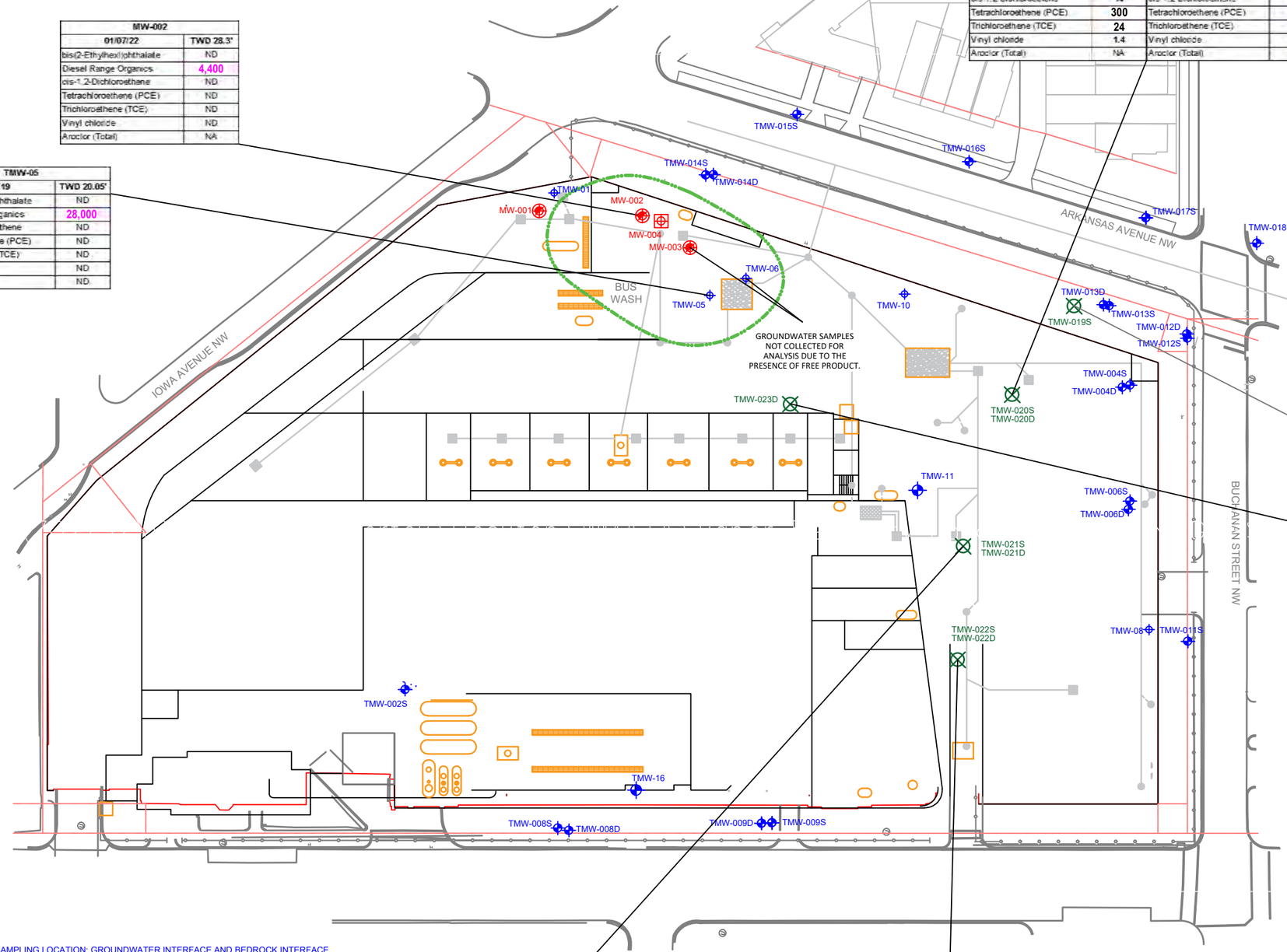
TMW-20S		TMW-20D	
11/11/22	TWD 22.5'	11/11/22	TWD 39.9'
bis(2-Ethylhexl)phthalate	NA	bis(2-Ethylhexl)phthalate	NA
Diesel Range Organics	ND	Diesel Range Organics	ND
cis-1,2-Dichloroethene	14	cis-1,2-Dichloroethene	11
Tetrachloroethene (PCE)	300	Tetrachloroethene (PCE)	260
Trichloroethene (TCE)	24	Trichloroethene (TCE)	17
Vinyl chloride	1.4	Vinyl chloride	ND
Aroclor (Total)	NA	Aroclor (Total)	NA

TMW-19S	
11/02/22	TWD 17'
bis(2-Ethylhexl)phthalate	NA
Diesel Range Organics	ND
cis-1,2-Dichloroethene	ND
Tetrachloroethene (PCE)	ND
Trichloroethene (TCE)	ND
Vinyl chloride	ND
Aroclor (Total)	NA

TMW-23D	
11/02/22	TWD 25.3'
bis(2-Ethylhexl)phthalate	NA
Diesel Range Organics	1,200
cis-1,2-Dichloroethene	ND
Tetrachloroethene (PCE)	1.6
Trichloroethene (TCE)	ND
Vinyl chloride	ND
Aroclor (Total)	NA

TMW-21S		TMW-21D	
11/02/22	TWD 12.2'	11/02/22	TWD 40.4'
bis(2-Ethylhexl)phthalate	NA	bis(2-Ethylhexl)phthalate	NA
Diesel Range Organics	ND	Diesel Range Organics	ND
cis-1,2-Dichloroethene	15	cis-1,2-Dichloroethene	5.8
Tetrachloroethene (PCE)	150	Tetrachloroethene (PCE)	470
Trichloroethene (TCE)	24	Trichloroethene (TCE)	18
Vinyl chloride	3.2	Vinyl chloride	ND
Aroclor (Total)	NA	Aroclor (Total)	NA

TMW-22S		TMW-22D	
11/02/22	TWD 13.2'	11/02/22	TWD 28.3'
bis(2-Ethylhexl)phthalate	NA	bis(2-Ethylhexl)phthalate	NA
Diesel Range Organics	ND	Diesel Range Organics	ND
cis-1,2-Dichloroethene	4.1	cis-1,2-Dichloroethene	2.0
Tetrachloroethene (PCE)	160	Tetrachloroethene (PCE)	290
Trichloroethene (TCE)	28	Trichloroethene (TCE)	5.1
Vinyl chloride	ND	Vinyl chloride	ND
Aroclor (Total)	NA	Aroclor (Total)	NA



LEGEND:

- FENCING
- MONITORING WELL DIRECT WATER SAMPLING LOCATION; GROUNDWATER INTERFACE AND BEDROCK INTERFACE
- PERMANENT SHALLOW MONITORING WELL LOCATION; 2"; MAX 15' BLS
- PERMANENT DEEP MONITORING WELL LOCATION; 2"; MAX 30' BLS
- TEMPORARY MONITORING WELL LOCATIONS (2022)
- APPROXIMATE EXTENT OF PETROLEUM-RELATED GROUNDWATER IMPACTS ABOVE DOEE TIER 1 SCREENING LEVELS FOR GROUNDWATER AND/OR PRESENCE OF FREE-PHASE PRODUCT

ALL ANALYTICAL DATA RESULTS PRESENTED IN MICROGRAMS PER LITER (ug/L)

MAGENTA VALUES EXCEED DOEE TIER 1 SCREENING LEVELS FOR GROUND WATER

*PLEASE NOTE ONLY GROUNDWATER SAMPLE LOCATIONS THAT CONTAIN CONSTITUENTS WHICH EXCEED THESE VALUES WERE PROVIDED A GROUNDWATER ANALYTICAL DATA SUMMARY IN ug/L.

TWD - TOTAL WELL DEPTH.

intertek psi

Environmental Services

2930 Eskridge Road,
Fairfax, Virginia 22031
Tel (703) 698-9300

Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Groundwater Elevation Countour Map – Shallow (November 14, 2022)

Drawn By:

Steven Dier

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

0 40' 80'
APPROXIMATE SCALE IN FEET

Project Number:

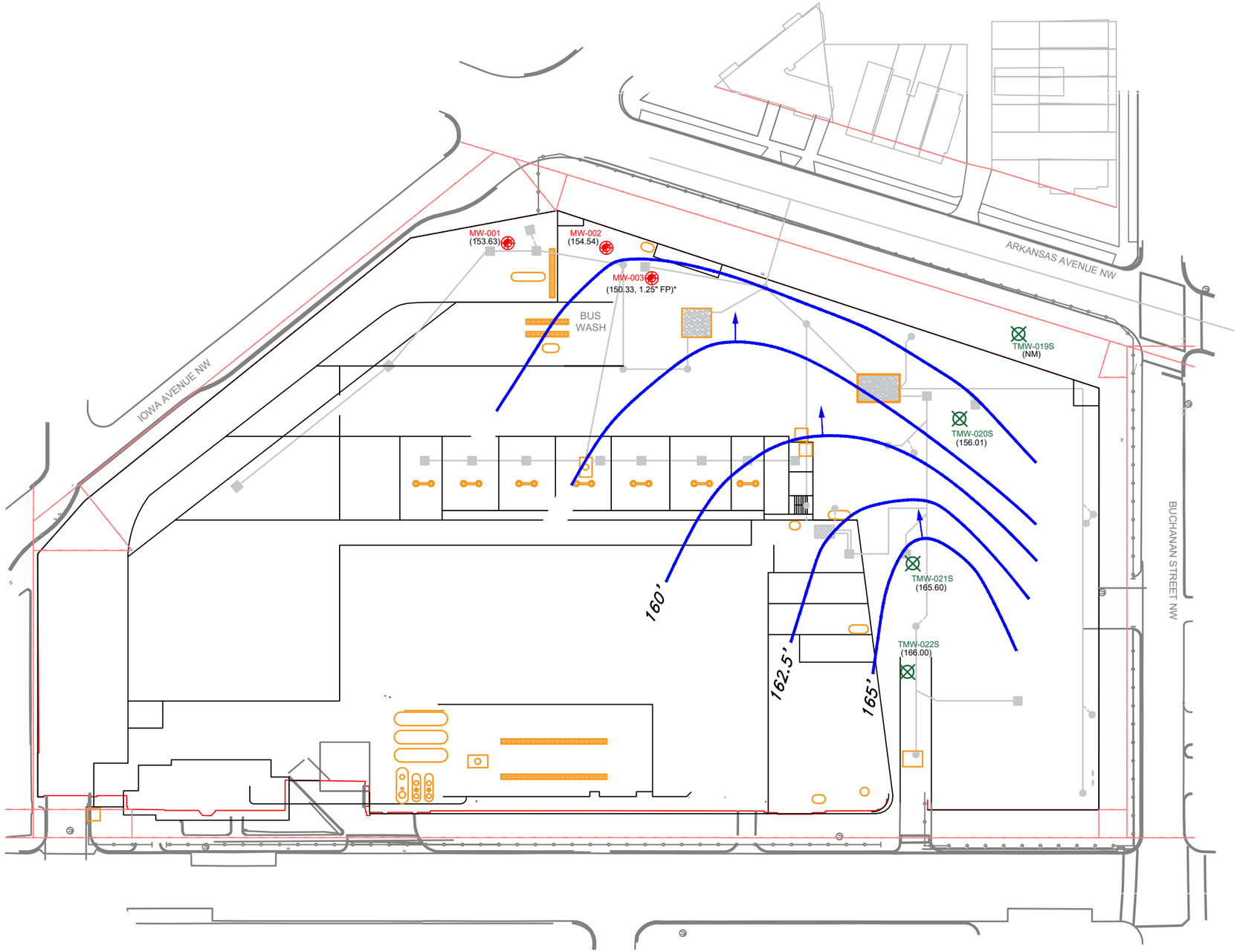
0444100

Figure Date:

12-16-2022

Figure Number:

6



LEGEND:

- FENCING
- EXISTING SHALLOW MONITORING WELL LOCATION
- TEMPORARY SHALLOW MONITORING WELL LOCATIONS (NOVEMBER 2022)
- (91.67) RELATIVE GROUNDWATER ELEVATION (IN FEET)
- 95.90 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- * DATA NOT USED IN CONTOUR
- FP FREE PRODUCT (PETROLEUM)

intertek psi

Environmental Services

2930 Eskridge Road,
Fairfax, Virginia 22031
Tel (703) 698-9300

Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Groundwater Elevation Contour Map – Deep (November 14, 2022)

Drawn By:

Steven Dier

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

0 40' 80'
APPROXIMATE SCALE IN FEET

Project Number:

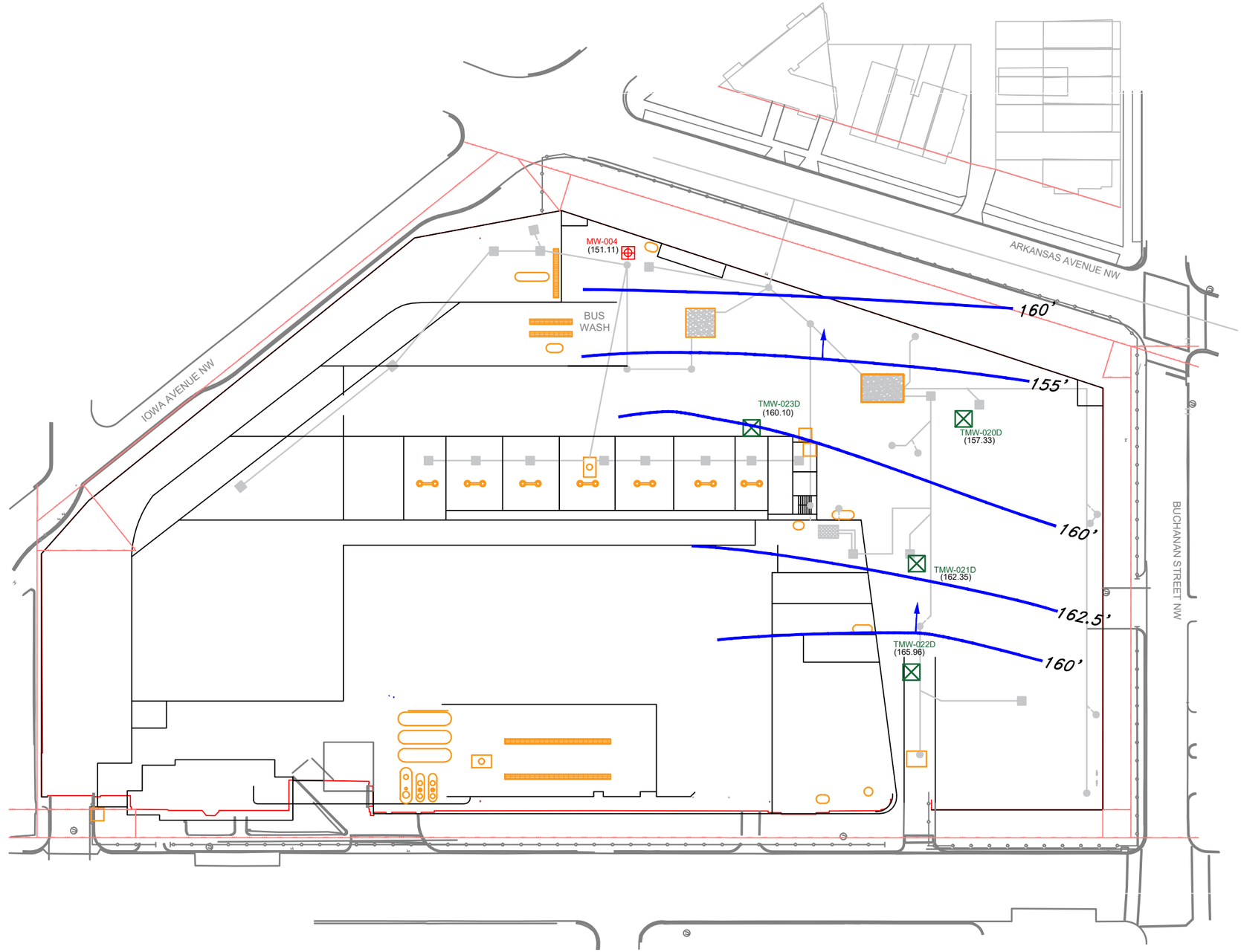
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Figure Date:

12-16-2022

Figure Number:

7



LEGEND:

- FENCING
- EXISTING DEEP MONITORING WELL LOCATION
- TEMPORARY DEEP MONITORING WELL LOCATIONS (NOVEMBER 2022)
- (91.67) RELATIVE GROUNDWATER ELEVATION (IN FEET)
- 95.90 GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

intertek psi

Environmental Services

2930 Eskridge Road,
Fairfax, Virginia 22031
Tel (703) 698-9300

Project Name:

WMATA Northern
Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Proposed Sentinel Monitoring Well Location Plan

Drawn By:

Steven Dier

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

0 40' 80'
APPROXIMATE SCALE IN FEET

Project Number:

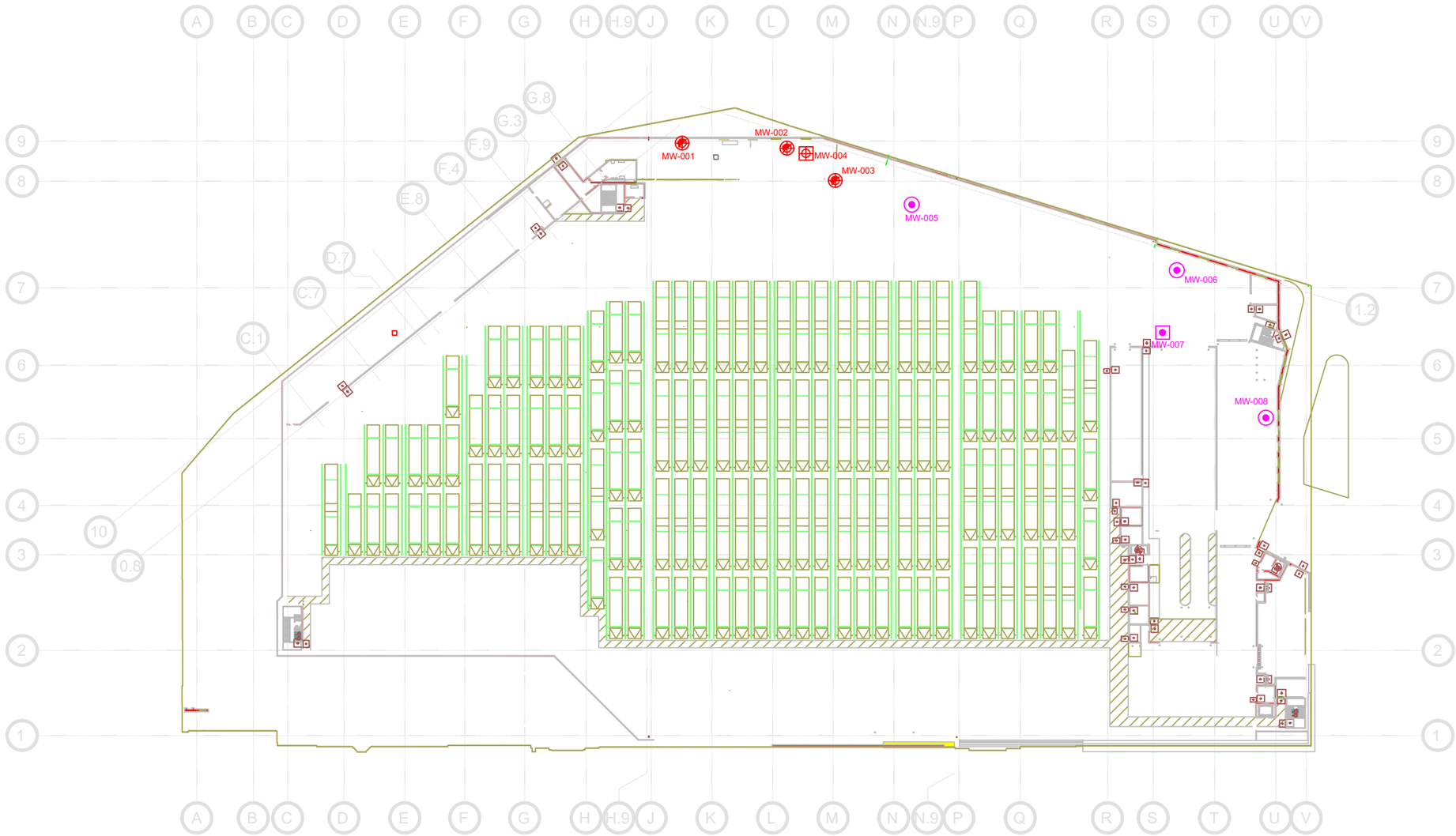
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Figure Date:

2-23-2023

Figure Number:

8



LEGEND:

- FENCING
- EXISTING SHALLOW MONITORING WELL LOCATION (TO BE ABANDONED)
- EXISTING DEEP MONITORING WELL LOCATION (TO BE ABANDONED)
- PROPOSED SENTINEL WELL - SHALLOW
- PROPOSED SENTINEL WELL - DEEP

APPENDICES

APPENDIX A

DOEE Wells and Soil Borings Permits

The following stamps were applied via the Water Resources Data base. Each stamp was signed electronically at the indicated time.



WELLS AND SOIL BORINGS PERMIT

Permit number	SB2200400
Submission Date	8/29/2022
Address of project	4615 14th Street NW
Square	2811
Lot	0802

Number of borings	17	Type of borings	Geotechnical Soil Boring;Monitoring well - Flush Mount

Applicant Information

Name	Monling Lee
Company	Interagency Inc.
Email	monling.lee@interagency.biz
Phone number	(301) 310-8772

Driller Information

Company	E2CR, Inc.
License number	410512000317
Email	email@e2cr.com
Phone number	(410) 737-9100

Reviewer Information

Name	KiDon Cho
Email	kidon.cho@dc.gov
Phone number	(202) 535-1936

Well and soil boring permit conditions

This confirms that information has been submitted by Monling Lee in the Surface and Groundwater system to support your Permit on 8/29/2022 6:16:00 PM, permit number SB2200400 & registration number MBt-SB2200400-025- for Construction Permit form located at 4615 14th Street NW.

I understand and acknowledge that by checking the boxes below, I am legally agreeing to the conditions listed in this document

☒ All drill cuttings and investigation derived wastes from potentially contaminated sites or known contaminated sites **shall be containerized and laboratory tested for offsite disposal**.

☒ In addition to standard disposal testing, soils with **suspected petroleum contamination** shall be tested using USEPA Method 8015M and shall **not be used as backfill or placed on the ground** if the concentrations exceed standards for soil quality stated in 20 DCMR 6208.1. Non-hazardous soils with Total Petroleum Hydrocarbons concentrations less than 100 ppm may be used as backfill or placed on the site. Soils shall **not be stockpiled** but spread in a manner consistent with DC Erosion and Sediment Control Standards.

☒ **Ground water** and/or any liquid **wastes generated by the boring or well drilling and testing** activities (such as decontamination water, purge water, well development water, dewatering effluent and mud slurries) **shall be laboratory tested** for chemical analytes known or suspected to be at the site and the results compared to the DC Ground Water Standards (21 DCMR 11) and the DC Underground Storage Tank Regulation for Total Petroleum Hydrocarbons in ground water [20 DCMR 6209.1(b)]. If these values are not exceeded, the water may be slowly placed on the ground surface in such a manner as to **not produce ponding or a discharge** onto adjacent properties or into nearby surface water bodies or into a storm drain or stormwater catchment basin. To be permitted to discharge to the storm sewer system, groundwater sampling must be conducted, and the results submitted to DOEE. For additional information and work plan approval, contact The Department of Energy and Environment, Regulatory Review Division (DOEE RRD) MS4DischargeAuthorization@dc.gov.

☒ A well shall be grouted as soon as possible but not later than twenty-four (24) hours after the well casing has been set in place unless otherwise permitted in writing from DOEE RRD. If construction activities halt before the well is grouted, the open annular space shall be covered and protected from contamination from any source, including surface water drainage, and the well casing capped.

☒ In accordance with DC Law § 8-103.13a, **wells or borings shall be drilled/installed, maintained and abandoned in a manner to prevent contamination of ground water resources and cross-contamination of ground water aquifers** (also see DOEE's **Well Construction Requirements**). **Five (5) days** of advanced notice of drilling activities shall be given to DOEE. **Within 60 days** of installation, well owner(s) contact information, the horizontal locations of the wells or borings using either the Maryland State Plane Coordinate System or latitude and longitude, vertical elevations including the reference datum used, well construction details and lithologic boring **logs shall submitted to DOEE RRD, well.permits@dc.gov.**

☒ **Prior to sealing a well**, the owner shall ensure that all obstructions which may interfere with the effective sealing operations are removed. Appurtenant structures, including terminal structures and any well casing shall be removed. If removal of the casing is not possible, the casing shall be ripped or perforated.

☒ **Abandoned wells and boreholes shall be filled using bentonite slurry (two pounds bentonite powder to one gallon water).** Sealing materials must be introduced at the bottom of the well or borehole and placed progressively upward. The owner shall **report any abandoned wells within 60 days of abandonment to the DOEE RRD, well.permits@dc.gov.**

☒ **Vertical, closed-loop ground source heat pump wells shall be constructed** using **high density polyethylene pipes (HDPE)**, an **anti-freeze solution,** preferably < 20% propylene glycol and, inert **bentonite or thermally-enhanced low permeability grout** that would not allow groundwater flow through the grout to exceed $1x10^{-7}$ cm/s. Geothermal systems shall not be abandoned without first obtaining approval from DOEE RRD.

Signature: Monling Lee

DEPARTMENT OF ENERGY & ENVIRONMENT

Well Construction Permit Application/Registration Form

Well Permit # **SB2200400**

Well Registration # **MBt-SB2200400-017-1**

Use this form for all wells excluding geothermal, dewatering and supply wells.
Attach Well Construction Work Plan; DOEE Schematic; site plan; supporting documents, such as lithological or geophysical boring logs, geotechnical reports, environmental site assessments, and any additional reports or relevant information.

Section A: Well Owner Information

A1-1	Property Owner(s):	**James Ashe**	*A1-2*	Agent for Owner (name):	**Monling Lee**
A2-1	Title/Company:		*A2-2*	Title/Company:	**Interagency Inc.**
A3-1	Mailing Address:	**James Ashe** **4615 14TH Street NW** **WASHINGTON, DC 20011**	*A3-2*	Mailing Address:	**Monling Lee** **80 M Street Se** **Suite 200** **Washington, DC 20003**
A4-1	City, State, ZIP:		*A4-2*	City, State, ZIP:	
A5-1	Phone:	**(202) 400-1550**	*A5-2*	Phone:	**(301) 310-8772**
A6-1	Email:	**jashe@wmata.com**	*A6-2*	Email:	**monling.lee@interagency.biz**

Section B: Driller / Company Responsible for Drilling / Installing the Well

B1-1	Name(s):	**E2CR, Inc.**	*B1-2*	Name (POC):	
B2-1	Mailing Address:	**1405-A Parker Road, Baltimore, Maryland 21227**	*B2-2*	Mailing Address:	
B3-1	City, State, ZIP:		*B3-2*	City, State, ZIP:	
B4-1	Phone:	**(410) 737-9100**	*B4-2*	Phone:	
B5-1	Email:	**email@e2cr.com**	*B5-2*	Email:	

B6	DCRA Business License No. (Provide Copy):	**410512000317**	Exp. Date:	**5/31/2024**
B7	State Driller License No. (Provide Copy):	**48046**	Exp. Date:	**11/30/2021**

Section C: General Well Information

C1	Is this a Due Diligence[1] Permit Application?	
C2	Type of Well (check one): (If different type of wells are considered to be installed, use separate forms)	**Geotechnical Soil Boring;Monitoring well - Flush Mount**
C3	Number of Wells:	**17**
C4	Limits of disturbance:	sqft
C5	Area of excavation:	**cuyd/cuft**
C6	Name and Overall purpose of the project and all intended well uses:	**Supplemental Soil and Ground Water Testing**
C7	SWPP required?	**No**
C8	Are wells required as part of a regulatory action?	**Yes**

Section D: Well Location Information

D1	Well Owner[2] if different from property owner):			
D2	Physical Address of Well(s):	**4615 14th Street NW**		
D3	Square, Suffix, & Lot (SSL):	Square: **2811**	Suffix:	Lot: **0802**
D4	Topography (check one):	**Flat**		
D5	Geology (check one):	**Unconsolidated**		

DEPARTMENT OF ENERGY & ENVIRONMENT

D6	Geologic Formation (if known):	
D7	Aquifer penetrated (check one):	**Single**
D8	Aquifer names (if known):	
D9	Drilling method (check all applicable):	**Direct push**
D10	Will drilling fluids/muds include additives other than potable water?	**No**
D11	Will the following be placed in the well (please attach specifications & features) (check all applicable)?	**None**
D12	Previous environmental or geotechnical work done at the site?	**Yes Soil borings and wells for groundwater samples and environmental testing performed under SB2100374**
D13	Recognized environmental concern on site or within 500 feet of site:	Yes Open case: Yes
D14	Outer casing to be used (check all that apply) and Material :	**N/A** **PVC**
D15	Outer casing purpose (specify for each type of casing used)*:	
D16	Will derived waste be containerized, laboratory tested, & taken offsite for proper disposal?	**Yes**
D17	Will drilling equipment be decontaminated between holes?	**Yes Clean water rinse/alconox wash/Clean water rinse (on-site); Hollow-stem - Clean water pressure wash rinse/alconox wash/Clean water rinse (off-site).**
D18	FOR INFILTRATION WELLS: • If only intended for Stormwater BMP evaluation, will potable water be used? • For contaminant remediation, complete D19. • For other infiltration purposes, will the quality of the infiltrate always not exceed the Groundwater Quality Standards (21 DCMR 11)? Also, identify: o The water source(s) and quality o Current, historic and new site use o The duration of infiltration o The timing of infiltration (e.g., frozen ground, wet season, dry season, etc.) o The rate of infiltration o The site lithology (provide boring logs) o The receiving soil hydraulic conductivity o The topographic gradient o The depth to groundwater o The hydraulic gradient o The direction of groundwater flow o Impacts to groundwater level and flow o Impact to onsite or nearby Recognized Environmental Conditions o Impact to onsite or nearby property and environmentally-sensitive environments	

DEPARTMENT OF ENERGY & ENVIRONMENT

D19	FOR INJECTION WELLS *Chemical or Biological Injection Used for Remedial Purposes* (Attach DOEE In-Situ Chemical Oxidation Form and supporting documentation) • UIC Permit received from EPA? • List all materials to be injected. Provide details including SDS and Manufacturer's Specifications. • List all the expected byproducts and degradates produced by the proposed reaction(s) • What is the normal environmental fate of the injected materials/reactants and their byproducts and degradates? • What are the start and end dates of injection? • How long is the chemical and/or biological reaction expected to occur after injection? • After the reaction ends, will any introduced materials or their byproducts or degradates expected to exceed Groundwater Quality Standards? • If applicable, how will these exceedances be addressed? • Will the migration of pollutants, including chemical or biological reactants, byproducts and degradates extend beyond the property line? • Are there nearby utilities, structures, operations, sensitive environments, resources, or populations that may be impacted by the proposed injection? • Are there any other onsite pollutants not targeted for treatment by this injection? • Will there be any negative impact to the natural degradation of a pollutant not targeted for treatment by the injection system? • Were Pilot and/or Bench Tests conducted? • Is the proposed injection a part of a phased approach?	

DEPARTMENT OF ENERGY & ENVIRONMENT

D20	FOR OTHER TYPES OF WELLS for which specific standards were not developed in 21 DCMR 18 including wells used for geotechnical, and geophysical purposes; and data collection from instruments, such as extensometers, inclinometers, vibrating wire piezometers and cone penetrometers: • Provide details of proposed well construction • Identify any design features that do not comply with the general well construction standards of 21 DCMR 18, especially at contaminated sites • Describe an alternative Special Standard(s) with supporting documentation that will provide protection at least equal to the general well construction standards of 21 DCMR 18 • Identify any conflicts that could result with the well maintenance, use and abandonment requirements for all wells in 21 DCMR 18 and how these could be resolved • If for instrument data collection, how long is instrument installation required?	

Section E: Comments

Any answers to questions that contain an asterisk (*) must be explained here. Add additional sheets if necessary.

Section F: Declaration & Signature

I understand that the above registered wells will be deemed constructed unless any unused registration tags are returned or the wells abandoned according to 21 DCMR 18. Constructed wells shall be maintained and registered as required.

I certify that I have read and understand the requirements for well construction application requirements and well registration and that any representations I made here are true and accurate to the best of my knowledge. If I fail to follow the requirements of this application, I acknowledge that this application, and any permits and registrations issued as a result of it, may be revoked under the District authority and discretion. I acknowledge that I have been advised that failure to obtain a well permit before I start well construction activities may subject me to criminal and/or civil penalties.

Name (print) **Monling Lee** Signature **Monling Lee** Date **9/15/2022 4:19:00 PM**

Owner ☐ Agent for owner ☒ Well Driller Performing Work ☐

If contact information is not listed in Sections A or B, please provide here:

Position/Company: Name (print):

Address: Phone: Email:

Upon approval, each well will be constructed and used in accordance with the DCRA or DDOT permit and approved workplan. The well identification tags and DOEE assigned numbers will be used and applied in accordance with 21 DCMR 1821. Unused tags and tags from abandoned wells will be returned to DOEE. A Well Construction Completion Report will be submitted to DOEE within 60 days of construction of each well.

[1] A well that is installed to assess the environmental conditions on a site as part of a property transfer and/or transactions. These wells are also often temporary wells installed and sampled as part of a Phase II Environmental Site Assessment, if Recognized Environmental Conditions are identified during a Phase I Environmental Site Assessment.

2 In the District, the property owner typically is the well owner. However, in rare circumstances, they may not be the same person, such as when conducting an investigation on a neighboring property, or on public space, or when there is a transfer of land ownership of a contaminated site, but, the liability involving well construction and operation stays with the previous owner.

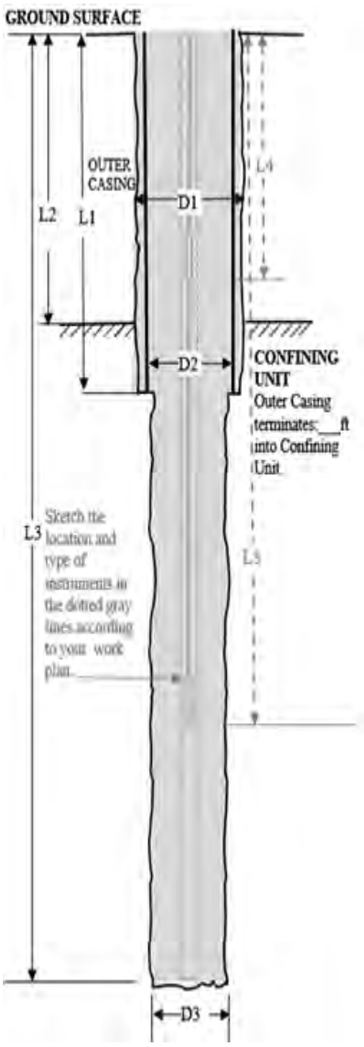
DEPARTMENT OF ENERGY & ENVIRONMENT

SOIL/GEOTECHNICAL/GEOPHYSICAL/BORING SCHEMATIC
Outer Casing Inserted into Confining Unit

District of Columbia
Regulatory Review
Division

SB2200400

Check one: Application ☒ *As-Built* ☐



1	**Type of boring**	**Geotechnical Soil Borings SB61-SB67**
2	**Borehole diameter (D1) (inches)**	**3**
3	**Outer casing (use if area is contaminated)**	
3.1	Temporary or permanent?	
3.2	Material	**PVC**
3.3	Diameter D2 (inches)	**2**
3.4	Length (L1) (feet)	
3.5	Casing terminates 10 feet into confining unit?	
3.6	Thickness of confining unit (feet)	
3.7	Depth to the top of the confining unit (L2) (feet)	
4	**Grout around outer casing**	
4.1	Material	**Bentonite/Neat cement**
4.2	Ratio of solids to solids (if applies) (pounds : pounds)	**150 lbs/94 lbs**
4.3	Ratio solids to water (pounds : gallons)	**244 lbs/82 gal**
4.4	Hydraulic conductivity (cm/s)	
5	**Grout around well pipe (ignore if same as outer casing's grout)**	
5.1	Material	
5.2	Ratio of solids to solids (if applies) (pounds : pounds)	
5.3	Ratio of solids to water (pounds : gallons)	
5.4	Hydraulic conductivity (cm/s)	
5.5	Tremie-grouted from bottom of borehole?	**Yes**
5.6	Using a positive displacement pump?	**Yes**
6	**If instrumentation will be installed, provide description and depths**	
7	**If soil boring is not completed or in use, describe how it will be covered and protected (21 DCMR 1812.3-4)**	**A filter pack will be placed around screen up to 2 feet above screened interval, followed by a fine sand seal and bentonite/neat cement to surface. Wells will be installed via Geoprobe push technology.**
8	**Will boring be abandoned within 30 days of construction /completion?**	**No**
8.1	If yes, attach the Abandonment Work Plan	
9	**Is the borehole intended to reach the bedrock?**	**No**
9.1	If yes, depth to top of competent rock (feet)	**40**
9.2	Depth to top of weathered rock (feet)	
10	**Depth to bottom of borehole** (L3) (feet)	**22**
11	**Borehole diameter** (D3) (inches):	**3**

WELL ID'S: **SB-61 ; SB-62 ; SB-63 ; SB-64 ; SB-65 ; SB-66 ; SB-67**

REGISTRATION NUMBER (S): **MBt-SB2200400-017-1-Bt021 ; Bt022 ; Bt023 ; Bt024 ; Bt025 ; Bt026 ; Bt027**

PERMIT NUMBER: **SB2200400**

WELL ADDRESS: **4615 14th Street NW**

SSL: **2811 , & 0802**

WELL OWNER: **James Ashe**

OWNER ADDRESS: **James Ashe**

4615 14TH Street NW

WASHINGTON, DC 20011

SIGNATURE: **Monling Lee**

DATE & TIME: **9/15/2022 4:19:00 PM (Signed electronically)**

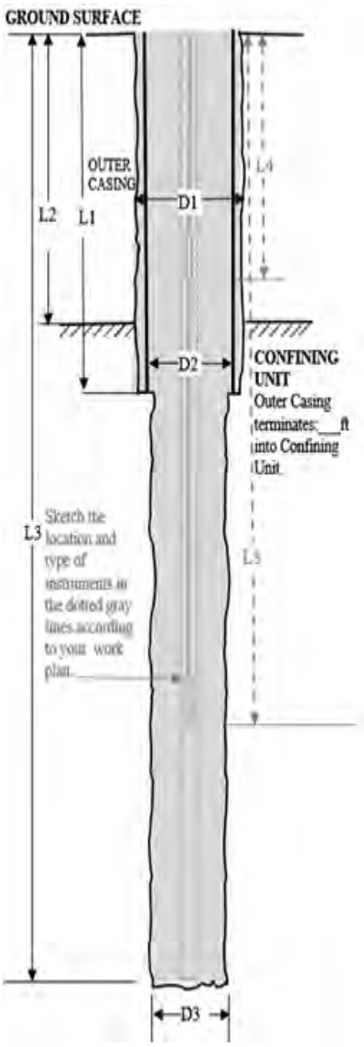
DEPARTMENT OF ENERGY & ENVIRONMENT

SOIL/GEOTECHNICAL/GEOPHYSICAL/BORING SCHEMATIC
Outer Casing Inserted into Confining Unit

District of Columbia
Regulatory Review
Division

SB2200400

Check one: Application ☒ *As-Built* ☐



1	**Type of boring**	**Geotechnical Soil Borings SB19SS-SB23SS**
2	**Borehole diameter (D1) (inches)**	**0.25**
3	**Outer casing (use if area is contaminated)**	
3.1	Temporary or permanent?	
3.2	Material	**PVC**
3.3	Diameter D2 (inches)	**8**
3.4	Length (L1) (feet)	
3.5	Casing terminates 10 feet into confining unit?	
3.6	Thickness of confining unit (feet)	
3.7	Depth to the top of the confining unit (L2) (feet)	
4	**Grout around outer casing**	
4.1	Material	**Bentonite/Neat cement**
4.2	Ratio of solids to solids (if applies) (pounds : pounds)	**150 lbs/94 lbs**
4.3	Ratio solids to water (pounds : gallons)	**244 lbs/82 gal**
4.4	Hydraulic conductivity (cm/s)	
5	**Grout around well pipe (ignore if same as outer casing's grout)**	
5.1	Material	
5.2	Ratio of solids to solids (if applies) (pounds : pounds)	
5.3	Ratio of solids to water (pounds : gallons)	
5.4	Hydraulic conductivity (cm/s)	
5.5	Tremie-grouted from bottom of borehole?	**Yes**
5.6	Using a positive displacement pump?	**Yes**
6	**If instrumentation will be installed, provide description and depths**	
7	**If soil boring is not completed or in use, describe how it will be covered and protected (21 DCMR 1812.3-4)**	**A filter pack will be placed around screen up to 2 feet above screened interval, followed by a fine sand seal and bentonite/neat cement to surface. Wells will be installed via Geoprobe push technology.**
8	**Will boring be abandoned within 30 days of construction /completion?**	**No**
8.1	If yes, attach the Abandonment Work Plan	
9	**Is the borehole intended to reach the bedrock?**	**No**
9.1	If yes, depth to top of competent rock (feet)	**40**
9.2	Depth to top of weathered rock (feet)	
10	**Depth to bottom of borehole** (L3) (feet)	**35**
11	**Borehole diameter** (D3) (inches)	**8**

WELL ID'S: **SB-019SS ; SB-020SS ; SB-021SS ; SB-022SS ; SB-023SS**

REGISTRATION NUMBER (S): **MBt-SB2200400-017-1-Bt016 ; Bt017 ; Bt018 ; Bt019 ; Bt020**

PERMIT NUMBER: **SB2200400**

WELL ADDRESS: **4615 14th Street NW**

SSL: **2811 , & 0802**

WELL OWNER: **James Ashe**

OWNER ADDRESS: **James Ashe**

4615 14TH Street NW

WASHINGTON, DC 20011

SIGNATURE: **Monling Lee**

DATE & TIME: **9/15/2022 4:19:00 PM (Signed electronically)**

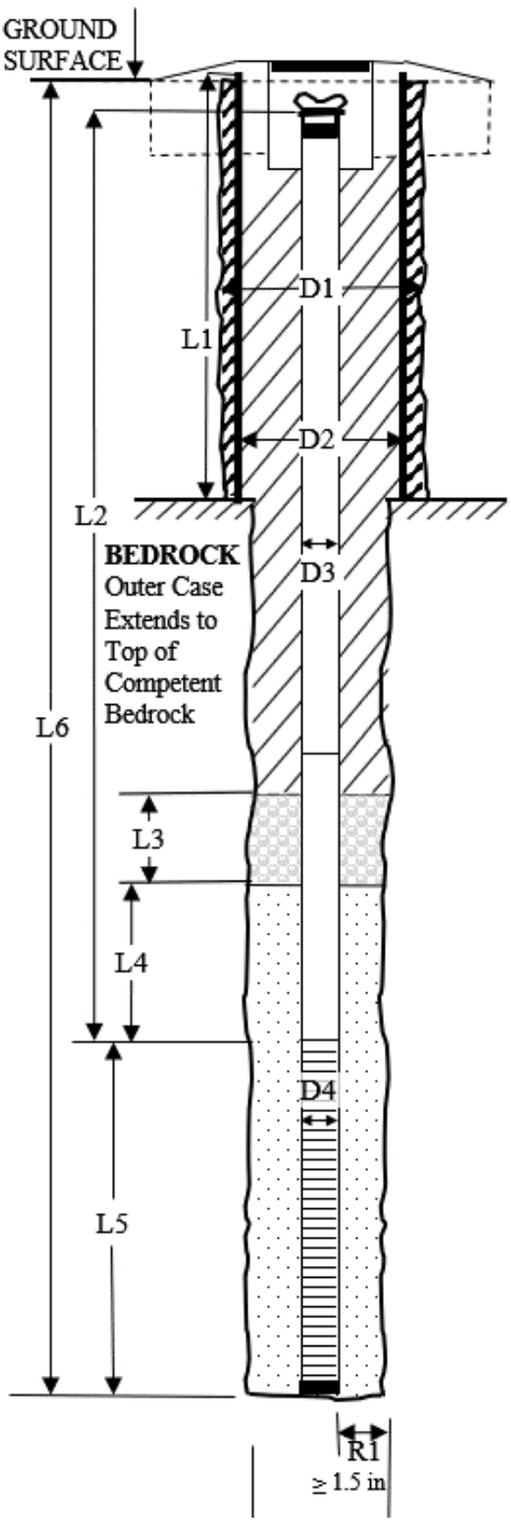
DEPARTMENT OF ENERGY & ENVIRONMENT

MONITORING WELL SCHEMATIC (Flush Mount) Outer Casing Extended to Bedrock

District of Columbia
Regulatory Review
Division

SB2200400

Check one: Application ☒ *Change-In-Use* ☐ *as-Built* ☐



1	**Watertight cap?**	☒
2	**Curb box and concrete pad**	
2.1	Concrete pad area (square feet)	**4**
3	**Borehole diameter (D1) (inches)**	**8**
4	**Outer casing (use if area is contaminated)**	
4.1	Temporary or permanent?	
4.2	Material	
4.3	Diameter (D2) (inches)	
4.4	Length (L1) (feet)	
4.5	Depth to top of weathered rock (feet)	
4.6	Depth to top of competent bedrock (feet)	
5	**Grout around outer casing**	
5.1	Material	**Portland and Bentonite**
5.2	Ratio of solids to solids (if applicable) (pounds : pounds)	**94 lbs cement/150 lbs bentonite**
5.3	Ratio of solids to water (pounds : gallons)	**82 gallons of water**
5.4	Hydraulic conductivity (cm/s)	
6	**Well casing**	
6.1	Material	**PVC**
6.2	Diameter (D3) (inches)	**2**
6.3	Joint type	**Threaded**
6.4	Length (L2) (feet)	**10**
7	**Grout around well casing (ignore if same as outer casing's grout)**	
7.1	Material	**Portland and Bentonite**
7.2	Ratio of solids to solids (if applicable) (pounds : pounds)	**94 lbs cement/150 lbs bentonite**
7.3	Ration of solids to water (pounds : gallons)	**82 gallons of water**
7.4	Hydraulic conductivity (cm/s)	
8	**Low permeability seal**	
8.1	Material	**Bentonite**
8.2	Length (L3) (feet)	**2**
9	**Filter pack**	
9.1	Material	**20/40 silica sand**
9.2	Length (L4) (feet)	**2**
10	**Well screen**	
10.1	Material	**PVC**
10.2	Diameter (D4) (inches)	
10.3	Length (L5) (feet)	**10**
10.4	Screen size opening (inches)	**0.01**
11	**Depth to bottom of well (L6) (feet)**	**20**
12	**Well annulus (≥ 1.5 inches) (R1) (inches)**	**2**
13	**Bottom borehole diameter (inches)**	**8**

WELL ID'S: **TMW-019S ; TMW-020S ; TMW-021S ; TMW-022S ; TMW-023S**

REGISTRATION NUMBER (S): **MBt-SB2200400-017-1-M006 ; M007 ; M008 ; M009 ; M010**

APPLICATION DATE: **9/14/2022**

PERMIT NUMBER: **SB2200400**

WELL ADDRESS: **4615 14th Street NW**

LOT & SQUARE: **0802 & 2811**

WELL OWNER: **James Ashe**

OWNER ADDRESS: **James Ashe**

4615 14TH Street NW

WASHINGTON, DC 20011

SIGNATURE: **Monling Lee**

DATE & TIME: **9/14/2022 3:28:00 PM (Signed electronically)**

Professional Service Industries, Inc.
2930 Eskridge Road
Fairfax, Virginia 22031
Phone: (703) 698-9300
Fax: (703) 698-4414

Mr. Michael Randolph
Project Manager
STV Incorporated
120 East Baltimore Street, Suite 1710
Baltimore, MD 21202

Subject: Supplemental Site Assessment Work Plan
Soil Boring and Temporary Monitoring Well Installation (Interior Private Space)
WMATA Northern Bus Station
4615 14th Street NW
Washington, D.C 20011

Dear Mr. Randolph:

Pursuant to your request and in response to meetings between Washington D.C. Metropolitan Area Transit Authority (WMATA) representatives and Washington D.C. Department of Energy and Environment (DOEE) representatives on June 2 and 3, 2022, Professional Service Industries, Inc. (PSI), an Intertek company, has prepared this Supplemental Site Assessment (SSA) Work Plan for the above-referenced property. One electronic copy of the SSA Work Plan has been prepared for your use.

Thank you for choosing PSI as your consultant for this project. If you have any questions regarding the information contained herein, or if we can be of additional service, please contact the undersigned at (407) 908-0199.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Jeffrey M. Martineau
Director/Principal Consultant

Angela C. Garzia
Principal Consultant

cc: Mr. Hamid Riahi, PSI

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ACRONYM LIST

AMSL	Above Mean Sea Level
AST	Aboveground Storage Tank
BLS	Below Land Surface
BTEX	Benzene, Toluene, Ethylbenzene, total Xylenes
SSA	Supplemental Site Assessment
DCRBCA	District of Columbia Risk Based Corrective Action
DOEE	Department of Energy and Environment
DRO	Diesel Range Organics
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
GRO	Gasoline Range Organics
HSA	Hollow Stem Auger
I	Hydraulic Gradient
IDW	Investigative Derived Waste
K	Hydraulic Conductivity
MCL	Maximum Contaminant Level
NAVD 88	North American Vertical Datum of 1988
NELAC	National Environmental Laboratory Accreditation Conference
NPDWR	National Public Drinking Water Regulations
ORO	Oil Range Organics
OVA	Organic Vapor Analyzer
OWS	Oil-Water Separator
PAHs	Polycyclic Aromatic Hydrocarbons
PCA	Preliminary Contamination Assessment
PCE	Tetrachloroethylene
PCBs	Polychlorinated Biphenyls
PEI	Preliminary Environmental Investigation
PID	Photoionization Detector
PSI	Professional Service Industries, Inc.
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RBSL	Risk-Based Screening Level
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SSL	Site Specific Screening Level
STV	STV Incorporated
SVOCs	Semi-Volatile Organic Compounds
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Top-of-Casing
TPH	Total Petroleum Hydrocarbons

ACRONYM LIST (continued)

USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
WMATA	Washington Metropolitan Area Transit Authority

1 INTRODUCTION

Professional Service Industries, Inc. (PSI), an Intertek company, has prepared this Supplemental Site Assessment (SSA) Work Plan for the Washington Metropolitan Area Transit Authority (WMATA) Northern Bus Garage on behalf of STV Incorporated (STV). The project is located at 4615 14th Street NW in Washington, District of Columbia (D.C.). This document has been prepared in response to meetings between WMATA representatives and Washington D.C. Department of Energy and Environment (DOEE) representatives on June 2 and 3, 2022 and is a continuation of the assessment activities presented in the previously submitted Comprehensive Site Assessment (CSA) Report, dated March 10, 2022. To comply with DOEE's request, the activities described in this work plan will be conducted to complete the requirements as agreed upon by both parties.

The activities described in this work plan will be conducted in accordance with the DOEE Risk-Based Corrective Action Technical Guidance document, dated June 2011 (https://doee.dc.gov/publication/dc-risk-based-corrective-action-dcrbca-or-risk-based-decision-making-dcrbdm-process).

2 SITE DESCRIPTION AND HISTORY

2.1 Site Location

The subject property is located in a mixed-use neighborhood surrounded by residential housing and commercial properties. The site is improved with an approximately 270,000 square foot multi-story building, with the oldest portion of the building constructed in 1906. The subject property is owned by WMATA and is located on Square 2811/2815 and Property ID 2811 0802 of the Washington D.C. Real Estate Map. The on-site building historically has been used for bus storage and maintenance, and consists of administrative offices, employee parking deck, maintenance/repair bays, bus wash areas, storage rooms, and a garage with capacity for approximately 150 buses.

Site Location Map



Currently, the site is inactive as a WMATA bus division and has limited occupancy for staff planning the reconstruction; however, infrastructure associated with the former bus storage/maintenance facility remains on-site. WMATA plans to demolish the majority of the existing on-site building to redevelop the site for mixed use (new bus garage and retail space) and will preserve a limited portion of the original 1906 trolley barn. The site is bounded by residential and commercial properties to the north along Decatur Street, to the east along Iowa Ave NW and Arkansas Ave NW, to the west by 14th St NW, and to the south by Buchanan St NW.

The site is fully serviced by public utilities including water and sewer. Groundwater is not used as a source of potable water on or in the vicinity of the site.

2.2 Site History

A public transit support facility has operated at the 4615 14th Street NW, Washington, D.C. location since approximately 1906. The location has primarily been utilized for the operation and maintenance of transit vehicles beginning with trolley cars. The facility was managed by a private busing business in the 1940s-1950s; however, in the mid-1970s, WMATA assumed control of operation and maintenance responsibilities of the facility and buses in the metropolitan area. Historically, usage of portions of the subject property included use as a trolley carriage house, bus storage and maintenance, vehicle fueling, auto-maintenance and vehicle washing.

Various facility modifications were performed between the early 1980s through early 2000s, which included the construction of a wall around the facility to minimize community impacts from the on-site activities. During a site geotechnical investigation for the planned renovations/construction activities performed in late 2019/early 2020, petroleum-related vapors were identified in the site soils in the vicinity of the existing on-site underground storage tanks (USTs). Previous USTs were removed from the ground during the renovation/construction activities, which were completed in the early 1990s.

Complete historic information regarding maintenance practices and chemical usage at the facility is not available. Several petroleum USTs and aboveground storage tanks (ASTs) have been installed and removed from the site. Additionally, laundry/dry-cleaning facilities existed along 14th Street (west of the subject property) between 1927 and 1985. Additional information is provided in Section 2.3.

A review of available fire insurance maps (Sanborn) and aerial photographs indicated the following information:

- 1927 (Sanborn) - The site depicts the original Car Barn structure for Washington Rapid Transit Co. Bus Station, built in 1907. Structures depicting shops and garages also appear on the southern portion of the property.

- 1951- 1960 (Aerials & Sanborn) - The site is improved with a bus garage with a gas pump in the eastern portion of the original building. The Sanborn also depicts a filling station located in the southwest corner of the subject property.

- 1963-1985 (Aerials) – Bus operations continue.

- 1988-1991 (Aerials) - The shops and garage structures on the southern portion of the property have been removed by approximately 1989.

- 1992-2017 (Aerials) - The on-site structure was improved with a roof parking lot and bus repair shop over the eastern and southern portion of the property.

2.3 Summary of Previous Investigations

Previous investigations at the Site have been conducted by Versar, Inc., PSI, and others. This section provides a basic overview of activities.

Petroleum Impacts (Information Obtained from Versar's 2003 ESA)
Based on historical information provided in the Versar's 2003 ESA report, petroleum-related soil and/or groundwater impacts have been identified on the subject property at various times during the facility operation. The petroleum-related impacts have been attributed to leaking USTs utilized at the facility for storing fuel and/or automotive oils. During a geotechnical investigation performed in 1984, petroleum-related odors were observed in soils in the vicinity of several on-site USTs. Following the discovery of the soil impacts, the USTs were scheduled to be removed from the site during planned renovation work. A preliminary contamination assessment (PCA) was performed in 1989, during which five (5) monitoring wells were installed for groundwater monitoring purposes. A groundwater recovery and treatment system was installed in the southeastern portion of the subject property in late 1989 and removed in mid-1990. Site renovation activities were also performed from 1990-1991, during which the USTs and approximately 13,750 cubic yards of petroleum-impacted soil were removed from the site for proper disposal.

An aquifer pump test was performed in 1992 to collect hydrologic information for the design of a groundwater treatment system to remediate the identified on-site petroleum-related groundwater impacts. An in-well separator free product recovery pump was installed in one of the on-site monitoring wells with plumbing connected to a storage tank located within the bus garage where the free product would be collected. In 1999, an air sparge unit replaced the in-well separator due to insufficient product recovery.

The historical information additionally indicated that the on-site petroleum-related groundwater impacts appear to be degrading and/or are naturally attenuating. The report also stated that the lack of off-site detected impacts indicate that the bus garage operations and maintenance activities have not significantly impacted the surrounding area.

Chlorinated Solvents Information Obtained from Versar 2003 ESA Report)
In 1993, groundwater impact by chlorinated solvent related compounds were identified on the southern portion of the subject property. A risk assessment was performed to address concerns regarding the detected concentrations in the groundwater samples collected from Monitoring Wells MW-21 and MW-22. The risk assessment concluded that the detected concentrations posed no excessive risk to human health at that time. An ESA report prepared in 2003, indicated that chlorinated solvent impacts remained in the vicinity of Monitoring Wells MW-21 and MW-22; however, appeared to be natural attenuating as observed by the breakdown components associated with tetrachloroethylene (PCE). Additionally, the ESA indicated the most likely source(s) of the chlorinated solvent groundwater impact were historic dry-cleaning facilities previously located adjacent-west of the subject property along 14th Street NW.

Preliminary Environmental Investigation (PEI) Report (PSI, February 2020)
Analytical results for the soil samples collected within the on-site building footprint during the November-December 2019 PEI investigation indicated the presence of metals and petroleum-related compounds at concentrations above their respective DOEE Tier 1 SSLs, DCRBCA contact levels, and/or EPA RSLs at various locations throughout the site. Soil impacts were generally localized in the vicinity of multiple in-ground structures.

Analytical results for the groundwater samples collected within the on-site building footprint during the November-December 2019 PEI investigation indicated the presence of polychlorinated biphenyls (PCBs), petroleum-, and/or chlorinated solvent-related test parameters at concentrations above their respective DOEE Tier 1 Screening Levels for Groundwater, DOEE Groundwater Quality Standards, and/or EPA national primary drinking water regulations (NPDWR) maximum contaminant levels (MCLs) in the shallow aquifer.
The PCB and petroleum-related groundwater impacts appeared to be localized in areas near conveyances for surface water drainage, which may indicate leakage of this system in these areas or residual impacts from historic discharges.

The chlorinated-solvent in groundwater impacts appeared to be limited to the southern portion of the site; however, based on review of historical environmental assessments performed at the site as well as a review of subsurface groundwater flow and bedrock topography, the chlorinated solvents appear to have likely originated from an off-site source.

Comprehensive Site Assessment (CSA) Report (PSI, March 2022)

The investigation activities documented in the CSA Report are a continuation of assessment activities performed at the site in anticipation of demolition of the on-site building/structures and the construction of a new WMATA bus garage and maintenance facility.

Field investigation and sampling activities were performed by PSI personnel in October and December 2021 (soil sampling and well installation) and January 2022 (groundwater sampling). Soil cuttings generated during the performance of the soil borings, groundwater generated during development and sampling of the temporary/permanent monitoring wells, and decontamination water were placed into 55-gallon steel drums. The drums of cuttings have subsequently been transported off-site for proper disposal.

Soil Assessment Activities

Utilizing hand auger, conventional drilling split-spoon, and/or Geoprobe® drill-rig methodologies, PSI personnel observed the advancement of 40 soil borings. Of the 40 soil borings, nine (9) soil borings were attempted; however, refusal was encountered in these borings at depths ranging from 4 to 13.5 feet below land surface (BLS). Where refusal was met, a second boring was performed immediately adjacent to the first boring to verify if the encountered obstruction or rock was localized to the previous boring. The groundwater table was encountered at depths ranging from 5 feet BLS to 21 feet BLS in the soil borings performed based on subsequent groundwater measurements in the permanent and temporary monitoring wells.

Based on field observations and on responses from soil screening activities, utilizing an organic vapor analyzer equipped with a photo-ionization detector (OVA-PID), PSI collected 19 soil samples for laboratory analysis. Analytical results for the soil samples collected during the October/December 2021 sampling events indicated the presence of metals- and petroleum-related soil impacts; however, none of the samples analyzed indicated the presence of test parameters at concentrations above their respective DOEE Tier 1 Soil Screening Levels for construction workers.

Permanent Monitoring Well Installation Activities

Three (3) shallow (soil) permanent wells were installed to depths of approximately 27 feet BLS, and one (1) deep (bedrock) permanent well was installed to a depth of approximately 38 feet BLS utilizing hollow-stem auger methodologies within the eastern portion of the subject property.

During development of Monitoring Well MW-003, light non-aqueous phase liquid (LNAPL) was identified within the monitoring well. The viscous material measured less than 1-inch in thickness.

Temporary Monitoring Well Installation Activities

Originally, direct groundwater samples via Geoprobe™ water sampler were included in the CSA Work Plan to facilitate the collection of shallow/deep groundwater samples at the site. However, due to concerns regarding slow recharge rates, PSI recommended converting the soil borings performed during the soil investigation activities into temporary monitoring wells utilizing pre-packed well screens.

Where refusal or shallow bedrock was not encountered, PSI installed a shallow (soil) temporary monitoring well, with the screen interval bracketing the groundwater table, and a deep (bedrock) temporary monitoring well with its termination depth directly above the determined depth of bedrock

Groundwater Sampling Activities

On January 5, 2022, PSI personnel collected depth-to-groundwater measurements from all on-site permanent/temporary monitoring wells for later use in calculating groundwater flow direction at the site. The groundwater levels were collected within a 24-hour period and were measured from top-of-casing (TOC) and recorded to the nearest 0.01 of a foot.

From January 7 to 11, 2022, PSI personnel collected groundwater samples from 23 monitoring wells for laboratory analysis. Analytical results indicated the presence of petroleum- and chlorinated solvent-related test parameters; however, only Total Petroleum Hydrocarbons (TPH) – Diesel Range Organics (DGO) was identified above its DOEE Tier 1 Screening Levels for Groundwater in one groundwater sample (MW-002 on the east side of the building).

Groundwater Flow Determination

Utilizing TOC elevation and depth-to-groundwater measurements collected from the permanent and temporary monitoring wells performed/installed as part of the CSA activities, groundwater elevations were calculated by subtracting the depth-to-groundwater measurements from the TOC elevations for each borehole/well. Based on these calculations, the groundwater flow direction in the shallow and deep aquifer was determined to be towards the southeast. The shallow and deep aquifer groundwater flows appear to be generally consistent with historic assessments and data collected by PSI during the 2019/2020 geotechnical and environmental sampling programs.

Potential Impact

Based on the extent and concentrations of the impacts identified during the CSA activities, the identified soil and groundwater impacts do not represent a significant threat to any properties in the vicinity of the subject property. Additionally, the chlorinated solvent groundwater plume concentrations appear to be consistent

with historic environmental assessments performed at the site property over the past two decades, and the groundwater impact plume appears to be stable in size indicating little to no migration.

Cross-Sectional Summaries

Based on the extent and concentrations of petroleum and chlorinated solvent impacts identified during performance of the CSA and previous assessment activities performed to date, PSI has provided a site plan with two (2) associated cross-sectional drawings providing the following information:

- Groundwater table surface elevation;
- Top of rock elevation based on geotechnical boring data collected by PSI;
- Area of petroleum-impacted soil exceeding DOEE Tier I (Construction Worker) criteria;
- Area of petroleum-impacted groundwater exceeding DOEE Tier I Screening Levels; and
- Area of solvent-impacted groundwater exceeding EPA Maximum Contaminant Levels (MCLs).

3 PROPOSED SSA ACTIVITIES

This SSA work plan details planned supplemental soil and groundwater assessment activities and the collection of confirmatory soil samples from areas planned for excavation and off-site disposal as part of the on-site remedial activities. The proposed remedial activities to be undertaken prior to and during the planned construction activities are discussed in a sperate document (Draft Soil Remediation and Groundwater Management Plan – PSI, June 2022).

3.1 Soil and Groundwater Sampling and Analysis

As previously discussed, groundwater flow at the subject property has been determined to be towards the southeast. At the request of the DOEE, further assessment of the petroleum and chlorinated solvent impact identified at the subject property are proposed in the following sections.

3.1.1 Petroleum Impacted Areas

Soil Sampling and Analysis – Off Site

Two (2) soil borings (SB-68 and SB-70) will be performed on the east side of Arkansas Avenue NW in positions located approximately 60 feet to the north and 60 feet to the south of Soil Boring SB-015. A third soil boring (SB-69) will be performed as far east of SB-015 as is accessible within the limits of the road Right-of-Way (ROW). The performance of these soil borings will be to facilitate the collection of soil samples at a depth of 6 to 8 feet BLS. The sampling depth of 6 to 8 feet BLS was selected based on the previous analytical results of a soil sample collected from a depth of 6 to 8 feet BLS in Soil Boring SB-015SS, which resulted in slightly elevated concentrations of TPH-GRO. The soil samples will be submitted for laboratory analysis for TPH-GRO/DRO.

See Figure 1 for the locations of the proposed soil sampling locations (within the beige highlighted area).

Soil Sampling and Analysis – On-Site

Seven (7) soil borings (SB-61 through SB-67) will be performed within the on-site structure in positions identified in Figure 1 to provide additional analytical data relative to the previously identified petroleum impacted soil areas within the northeastern area of the structure. The performance of these soil borings will be to facilitate the collection of soil samples at continuous 2-foot intervals to depths extending to 2 feet into the groundwater table, or refusal, whichever is encountered first. Each soil sample will be visually classified and field screened for organic vapors utilizing an OVA-PID. Based on field observation and OVA-PID screening responses, personnel will collect up to two soil samples from each borehole selected based on field observations, historical data, and the field engineer's opinion on what is needed to better define the horizontal and vertical extent of petroleum impacts exceeding DOEE Tier 1 Soil Screening Levels for Construction Workers criteria. Up to twelve (12) soil samples will be submitted for laboratory analysis by EPA Method 8270 for SVOCs and TPH-GRO/DRO/ORO.

See Figure 1 for the locations of the proposed soil sampling locations (within the purple highlighted area).

3.1.2 Chlorinated Solvent Impacted Area

Soil Sampling and Analysis

Five (5) soil borings (SB-019SS through SB-023SS) will be performed in positions identified in Figure 1 to provide additional analytical data relative to the previously identified chlorinated solvent groundwater impacts within the southern area of the on-site structure. Three (3) of the borings (SB-019SS, SB-021SS, and SB-022SS) will be performed along an east to west transect approximately 75 to 130 feet north of previously sampled temporary monitoring well clusters TMW-013, TMW-006, and TMW- 011 as presented on Figure 1. Two (2) of these borings will be performed within the structure, while the third soil boring will be performed immediately to the east of the structure within the ROW. The fourth boring will be performed within the structure at what has been determined to be a low point in the underlying rock layer, which based on the geotechnical investigation previously performed by PSI, would be in the proximity of Geotech Soil Boring 19BH080. One additional soil boring (SB-023SS) will be performed approximately 200 feet north of proposed soil boring SB-0202SS. The performance of the five (5) soil borings will be to facilitate the collection of soil samples at continuous 2-foot intervals to depths extending to refusal. Each soil sample will be visually classified and field screened for organic vapors utilizing an OVA-PID. Based on field observation and OVA-PID screening responses, personnel will collect one (1) soil sample from each borehole at the location indicating the highest likelihood of impact. The soil samples will be submitted for laboratory analysis by EPA Method 8260 for VOCs and TPH-GRO/DRO.

See Figure 1 for the locations of the proposed soil sampling locations (within the green highlighted area).

Groundwater Sampling Points

Groundwater samples will also be collected at the five (5) soil boring locations (SB-019SS through SB-023SS) discussed above. At each location, groundwater samples will be collected from two (2) depth intervals within the same proximity. The first sample will be collected at a depth that will allow the screened interval to intersect the groundwater table surface (TMW-019S through TMW-023S), while a second groundwater sample will be collected from immediately above the bedrock (TMW-019D through TMW-023D) utilizing low-flow methodologies. Due to the field limitations encountered during previous sampling activities, PSI will install temporary monitoring wells to collect the groundwater samples. The temporary monitoring wells will be developed to clear the wells of suspended silts and/or sediments. At the time of sample collection, field readings for pH, specific conductance, temperature, dissolved oxygen, and turbidity will be collected to ensure the samples collected are representative of groundwater in the aquifer.

Upon completion of purging, personnel will then collect groundwater samples for laboratory analysis by EPA Method 8260 for VOCs and TPH-GRO/DRO.

See Figure 1 for the locations of the proposed soil sampling locations (within the green highlighted area).

3.2 Investigative Derived Waste (IDW)

Due to the presence of contaminated soil/groundwater at the site, it is anticipated that decontamination of the drilling equipment between boring locations will be required using a decontamination pad. Borings will be backfilled with grout. Boring cuttings, decontamination/development/purge water and disposable sampling equipment will be collected into clean, clearly labeled 55-gallon drums. The drums will be sealed and temporarily stored in designated areas established by WMATA at the site for management pending receipt of analytical results. Drums will remain on-site until completion of logging, characterization, and disposal facility acceptance.

Based on the presence and nature of contamination, the most cost-effective option to dispose of IDW containerized within drums at the subject property will be to assume all drums contain some level of impacted material, perform composite sampling for additional analytical characterization required for disposal, and to dispose of all IDW at a licensed facility based on their acceptance of the composite sampling and environmental assessment analytical results.

To facilitate this necessary documentation, up to two (2) composite samples (one soil and one groundwater) will be collected from the drums for submittal to a licensed laboratory following standard chain-of-custody and shipping procedures. The composite samples will be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) including Resource Conservation and Recovery Act (RCRA)-8 Metals via EPA Method 1311 for soil and for total 8 RCRA Metals for groundwater, VOCs via EPA Method 8260, and SVOCs via EPA Method 8270. Upon the licensed disposal facility's receipt and acceptance of the analytical results, IDW drums will be shipped to the licensed disposal facility for processing.

3.3 Surveying

A certified land surveyor will survey the soil boring locations. The survey will include the ground elevation at each monitoring well location. All elevations will be logged against the NGVD 88 Geodetic datum.

3.4 Temporary Monitoring Well Abandonment

The proposed ten (10) temporary monitoring wells, five (5) shallow and five (5) bedrock (bottom of well setting atop encountered bedrock), will be abandoned within 30 days of construction in accordance with requirements of the DOEE Well Regulations 1802.7. Timing for the abandonment of the permanent monitoring wells will be determined following several sampling events and
based on discussions/approval with DOEE.

The procedures for abandonment of the wells will consist of the preparation of a DC DOEE Well Abandonment Work Plan, field procedures to accomplish the abandonment, and completion of a well abandonment report (including the DC Well Abandonment Form).

Upon completion of the boreholes, the bedrock well casings will be removed from the bedrock (i.e. consolidated formation) portion of the borings and will be tremie grouted with bentonite-cement grout with a mix ratio of no greater than 6 gallons of water per 94 pounds of Portland cement with an additional 5 pounds of sodium-based bentonite per 21 District of Columbia Municipal Regulations (DCMR) §1818.14 Upon completion of the bedrock grouting, all borings will be tremie grouted with bentonite-cement grout with a mix ratio of 94 pounds Portland cement, 150 pounds bentonite and 82 gallons potable water from the bottom up to at least 5-feet above the

bottom depth of the bedrock temporary casing to maintain positive pressure head in the borehole. The well casing will then be removed while tremie- grouting from bottom to surface of the borehole. No instrumentation is planned for these boreholes.

A completion/abandonment report will be submitted to DOEE within 6 months of well installation in accordance with 21 DCMR § 1826 to include:

1. Lithologic Soil boring log(s) with any groundwater level readings;
2. D.C. Well Construction Completion and Abandonment Form;
3. Final boring location plan; and
4. Photographs showing entire abandonment procedures.

3.5 SSA Report

To comply with DOEE's request, the activities described in this work plan will be conducted to support the SSA Report. Field activities will be conducted in accordance with the procedures and methodology described in this work plan and the DOEE Risk-Based Corrective Action Technical Guidance document, dated June 2011 (https://doee.dc.gov/publication/dc-risk-based-corrective-action-dcrbca-or-risk-based-decision-making-dcrbdm-process).

3.6 Quality Assurance/Quality Control

All field decontamination and sampling procedures will be performed in general accordance with the U.S. EPA's Operating Procedures for Soil and Groundwater Sampling, and Chapter 20 Sections 6100 and 6205 of the District of Columbia Municipal Regulations, where applicable. Quality Assurance and Quality Control (QA/QC) samples including trip blanks for laboratory analysis of VOCs by EPA Method 8260 and SVOCs by EPA Method 8270 will be collected for laboratory analysis. All downhole equipment utilized during the field activities will be decontaminated prior to and between each soil boring. Decontamination of said equipment will be accomplished by washing the equipment with a non-phosphate detergent and distilled water solution followed by a final distilled water rinse. Single-use disposable gloves and disposable tubing will be used for each sampling point in an attempt to eliminate cross-contamination between sampling locations.

Laboratory analytical procedures will be performed by National Environmental Laboratory Accreditation Conference (NELAC)-certified Hampton-Clarke, Inc. (NELAC/NJ #07071) located in Fairfield, New Jersey.

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- Southworth, Scott, and Denenny, Danielle, 2006, Geologic map of the National Parks in the National Capital Region, Washington, D.C., Virginia, Maryland, and West Virginia: U.S. Geological Survey Open-File Report 2005-1331, available only online at: http://pubs.usgs.gov/of/2005/1331/.

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- Environmental Protection Agency Region 1, Low Stress (low flow) Purging and Sampling Procedure For the collection of Ground water Samples from Monitoring Wells, EQASOP#: GW4, September 19, 2017.

- Environmental Protection Agency Region 4, Operating Procedure for Soil Sampling, LSASDPROC-300-R4, June 11, 2020

DEPARTMENT OF ENERGY & ENVIRONMENT

intertek psi

Environmental Services

2930 Eskridge Road,
Fairfax, Virginia 22031
Tel (703) 698-9300

Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Proposed Soil Boring and Temporary Monitoring Well Locations (On-site)

Drawn By:

Adam Smak

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

0 40' 80'
APPROXIMATE SCALE IN FEET

Project Number:

0444100

Figure Date:

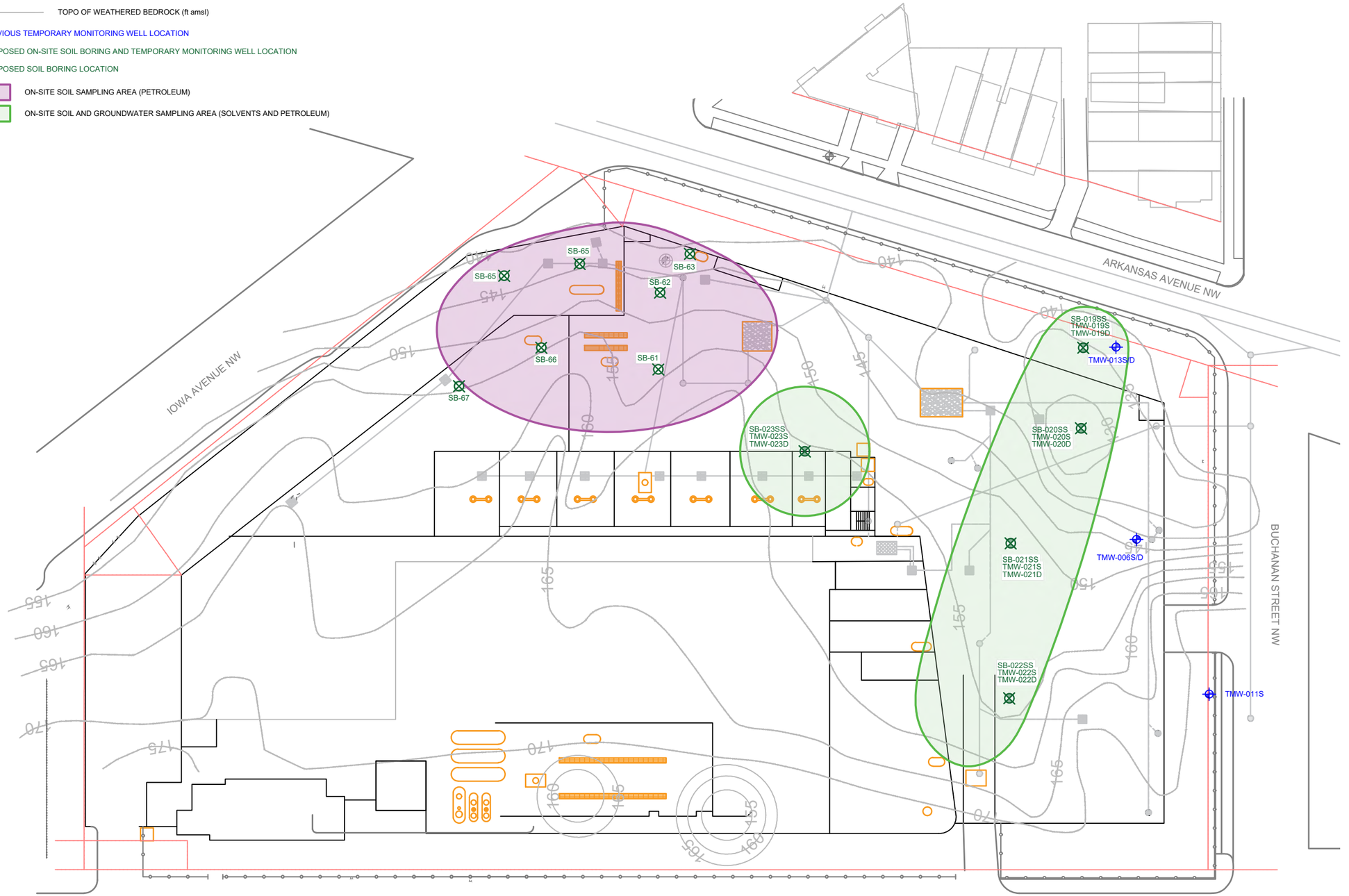
09-07-2022

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LEGEND:

- FENCING
- RIGHT OF WAY EASEMENT
- TOPO OF WEATHERED BEDROCK (ft amsl)
- PREVIOUS TEMPORARY MONITORING WELL LOCATION
- PROPOSED ON-SITE SOIL BORING AND TEMPORARY MONITORING WELL LOCATION
- PROPOSED SOIL BORING LOCATION
- ON-SITE SOIL SAMPLING AREA (PETROLEUM)
- ON-SITE SOIL AND GROUNDWATER SAMPLING AREA (SOLVENTS AND PETROLEUM)



DEPARTMENT OF ENERGY & ENVIRONMENT

BUILDING PERMIT APPLICATION SUPPLEMENTAL FORM - ENVIRONMENTAL QUESTIONNAIRE

PROJECT ADDRESS: 4615 14th Street, NW, D.C. SQUARE: 2811 SUFFIX: _____ LOT: 0802

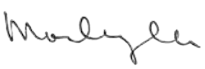
Directions: Please answer all 19 questions in this questionnaire, by checking either column "Yes" or "No" for each question. If you answer "Yes" to any of the questions, you should contact the corresponding office(s) indicated in column 'contact person/office,' as soon as possible. Until this supplement form is reviewed and approved by the concerned office(s), the building permit will not be issued.

SCOPE OF PROJECT	YES	NO	CONTACT PERSON/OFFICE	OFFICE USE
1. Will the work to be performed involve the installation, removal, close-in-place now, or repair of an underground storage tank (UST) system? *Please get approvals or signatures from the Underground Storage Tank Branch, Water Quality Division and the Air Quality Division.*	☐	☑	(202) 535-2600 or ust.ddoe@dc.gov, Underground Storage Tank Branch (202) 535-2600, Air Quality Division, Permitting Branch	
2. Will the work to be performed involve assessment of soil or soil-vapor, or cleanup of soil associated with the released material from an underground storage tank (UST)? *Please get approvals or signatures from the UndergroundStorage Tank Division, Water Quality Division and the Air Quality Division.*	☑	☐	(202) 535-2600 or ust.ddoe@dc.gov , Underground Storage Tank Branch (202) 535-2600, Water Quality Division (202) 535-2600, Air Quality Division	UST Permit # 2022053 Approved, USTB Inspector: NH, 9/19/2022 Olivia Achuko See attached AQD approval conditions
3. Will the work to be performed involve the assessment or clean-up of groundwater associated with the release of material from an underground storage tank (UST)? *Please get approvals or signatures from the Underground Storage Tank Division, Water Quality Division and the Air Quality Division.*	☑	☐	(202) 535-2600 or ust.ddoe@dc.gov, Underground Storage Tank Branch (202) 535-2600, Air Quality Division (202) 535-2600, Water Quality Division	UST Permit # 2022053 Approved, USTB Inspector: NH, 9/19/2022 Olivia Achuko See attached AQD approval conditions
4. Will the proposed project involve the installation or drilling of wells other than for the purposes stated in questions 2 and 3? *Please get approvals or signatures from the Water Quality Division.*	☐	☑	(202) 535-2600, Water Quality Division	
5. Will the proposed project involve installation or drilling of wells using air rotary drilling methods or any methods discharging gases or dust into the air? *Please get approvals or signatures from the Water Quality Division and the Air Quality Division.*	☐	☑	(202) 535-2600, Water Quality Division (202) 535-2600, Air Quality Division, Permitting Branch	
6. Will the proposed project involve the generation, treatment, storage, disposal or transportation of chemicals or other substances which may be considered hazardous? *Contact Hazardous Materials Branch (202) 535-2600.*	☐	☑	(202) 535-2600, Hazardous Waste Branch	
7. Will the proposed use involve the construction of a facility for the handling, transfer, storage, disposal or treatment of solid waste, medical waste, or recyclable materials? *Contact DOEE Environmental Review Coordinator (202) 535-2600.*	☐	☑	(202) 535-2600, DOEE EIS Coordinator	
8. Will the proposed project involve construction which will result in a discharge or release to or withdrawal from a river, stream, wetland, or groundwater or disturb the sediment in rivers, streams or wetlands? *Please get approvals or signatures from the Water Quality Division.*	☐	☑	(202) 535-2600, Water Quality Division	
9. Will the proposed project involve construction which may affect aquatic or terrestrial biota, their habitat, or water quality? *Please get approvals or signatures from the Water Quality Division and the Fisheries and Wildlife Division.*	☐	☑	(202) 535-2600, Water Quality Division (202) 535-2600, Fisheries and Wildlife Division	

DEPARTMENT OF ENERGY & ENVIRONMENT

10. Does the project site contain a species of plant or animal that is federally protected? *Federally protected means that the plant or animal is subjected to limited, restricted, specific, or approved interactions in accordance with Federal guidelines.*	☐	☑	(202) 535-2600, Fisheries and Wildlife Division	
11. Will the proposed project result in the discharge into the air of gases or dust or the creation of any objectionable odors? *Contact Air Quality Division Permitting Branch (202) 535-2600*	☐	☑	(202) 535-2600, Air Quality Division, Permitting Branch	
12. Was the building built before 1978? (Lead paint may be present). *Issuance of a lead abatement or renovation permit may be required.*	☐	☑	(202) 535-2600, Lead and Healthy Housing Division, Compliance and Enforcement Branch	
13. Does the building contain asbestos? *Requires a current asbestos survey (i.e., survey of all asbestos containing materials) for the building. A permit from the Air Quality Division is required for most asbestos removal projects.*	☐	☑	(202) 535-2600, Air Quality Division, Permitting Branch	
14. Does the project disturb 5,000 square feet or greater of land? *Major Land Disturbance: Submit a stormwater management plan to the Watershed Protection Division for approval.*	☐	☑	(202) 535-2600, Watershed Protection Division	
15. Is the project an interior renovation or addition where (1) the assessed value of the structure(s) is greater than or equal to 50% of the total cost of construction, AND (2) the sum of the structures' footprint and any soil disturbance is 5,000 square feet or greater? *Major Sustainable Improvement: Submit a storm water management plan to the Watershed Protection Division for approval.*	☐	☑	(202) 535-2600, Watershed Protection Division	
16. Is the project (1) a new building, addition and/or interior renovation where the total cost of construction is greater than 100% of the assessed value of the structure(s), AND (2) the property is assigned a zone district other than R1 - R4? *Submit a green area ratio (GAR) plan to the Watershed Protection Division for approval.*	☐	☑	(202) 535-2600, Watershed Protection Division	
17. Will the proposed project or the work to be performed be within a Special Flood Hazard Area (SFHA) or 100-year floodplain area (i.e., Zone A or AE)? *If YES,* *Compliance with DC Floodplain Regulations (DCMR 20, Flood Hazard Rules, and DCMR 12, Flood Provisions in the Construction Code is required.* *If NO,* *Please verify and confirm whether the project site is NOT located in a Special Flood Hazard Area (SFHA).* *http://ddoe.dc.gov/floodplainmap*	☐	☑	(202) 535-2600, Watershed Protection Division	
18. Will the proposed project result in the construction or installation of any equipment that burns fuel such as, but not limited to, stationary generators (any size) and boilers with heat input ratings greater than 5 million BTU/hr? *Note that separate air quality permits are required for most of these units.*	☐	☑	(202) 535-2600, Air Quality Division, Permitting Branch	
19. Will the proposed project result in the construction or installation of any other stationary pollution-emitting equipment? Examples include, but are not limited to, degreasing units, professional printing equipment, plating lines, spray painting operations, and gasoline dispensing systems. *Note that separate air quality permits are required for most of these units.*	☐	☑	(202) 535-2600, Air Quality Division, Permitting Branch	

I hereby certify that I have the authority of the owner of the property to make this application and that the answers to the above questions are complete and correct to the best of my knowledge. False statements may be subject to fines and prosecution, as applicable by statute.

Signature  Name (print) Monling Lee

Address 4615 14th Street, NW, D.C. Date 9/15/2022 Phone 301-310-8772

OFFICE USE ONLY

DOEE APPROVAL BY NAME (Print) _____

CONTACT NUMBER: (202) _____ DATE: _____

COMMENTS AND PERMIT RESTRICTIONS _____

(USE REVERSE IF NECESSARY)

DEPARTMENT OF ENERGY & ENVIRONMENT

Department of Consumer and Regulatory Affairs

GOVERNMENT
OF THE
DISTRICT OF COLUMBIA
Muriel Bowser, Mayor

Business Licensing Division
1100 4th Street S.W.
Washington DC 20024

Date Issued : 05/20/2022
Category : 4105
License# : 410512000317
License Period : 05/01/2022 - 05/31/2024

BASIC BUSINESS LICENSE

Billing Name and Address :

SOMENDRA KAHATAPITIYA
E2cr Inc.

1405-a Parker RoAD
Baltimore MD 21227

Premise/Application's Name and Address :

E2cr Inc.

1405 A PARKER RD -, BALTIMORE, MD 21227

Registered Agent's Name and Address :

Resagent Inc.

1025 Connecticut Avenue N.W., Suite 400
Washington DC 20036

Owner's Name :

Corp. Name : E2cr Inc.

Trade Name :

CofO/HOP# :	SSL : NA	Zone :	Ward :	ANC :	PERM NO. :
Class A		UNITS : 1			

General Service and Repair - Gen Contr/Construction Mngr

--THE LAW REQUIRES THIS LICENSE TO BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES--

*License Effective from the later of Issued or Start of License-Period Date

Ernest Chrappah

Director :
Ernest Chrappah

Date : 5/23/2022 9:39:56 AM

DEPARTMENT OF ENERGY & ENVIRONMENT

STATE BOARD FOR PROFESSIONAL ENGINEERS

23 07 48046 E2CR, INC. 78 10-22-2019

MESSAGE(S):

STATE OF MARYLAND DLLR
DEPARTMENT OF LABOR, LICENSING AND REGULATION

LICENSE * REGISTRATION * CERTIFICATION * PERMIT

STATE OF MARYLAND

DEPARTMENT OF LABOR, LICENSING AND REGULATION

Lawrence J. Hogan, Jr.
Governor
Boyd K. Rutherford
Lt. Governor
James E. Rzepkowski
Acting Secretary

STATE BOARD FOR PROFESSIONAL ENGINEERS

CERTIFIES THAT:

E2CR, INC.

IS AN AUTHORIZED: **07 - PE FIRM - CORPORATION**

LIC/REG/CERT	EXPIRATION	EFFECTIVE	CONTROL NO
48046	11-30-2021	N/A	5426141

Signature of Bearer

Acting Secretary DLLR

WHERE REQUIRED BY LAW THIS MUST BE CONSPICUOUSLY DISPLAYED IN OFFICE TO WHICH IT APPLIES

---

23 07 48046 5,426,141

23 07 48046

STATE BOARD FOR PROFESSIONAL ENGINEERS
500 N. CALVERT STREET
BALTIMORE, MD 21202-3651

E2CR, INC.
1405-A PARKER ROAD

BALTIMORE MD 21227

STATE OF MARYLAND DLLR
DEPARTMENT OF LABOR, LICENSING AND REGULATION

LICENSE * REGISTRATION * CERTIFICATION * PERMIT

STATE OF MARYLAND

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48046	11-30-2021	N/A	5426141

Signature of Bearer

Acting Secretary DLLR

WELLS AND SOIL BORINGS PERMIT

The following stamps were applied via the Water Resources Data base. Each stamp was signed electronically at the indicated time.

DEPARTMENT OF ENERGY & ENVIRONMENT
GOVERNMENT OF THE DISTRICT OF COLUMBIA

Well Construction Permit Approval
Soil Boring (SB) No. 403106

Notice: This Approval applies to the Well Construction Only. This Approval is subject to compliance with 21 DCMR Chapter 18, and Well and Soil Boring Permit Conditions.

The applicant must provide a work notification to ***well.permits@dc.gov*** at least 2 business days prior to commencing the construction of a well, and submit the work completion/abandonment report to ***well.permits@dc.gov*** within 60 days of work completion. The approved Well Construction Work Plan may not be revised or changed without the approval of DOEE.

Failure to comply with the requirements of this approval may result in Notice of Violation or Notice of Infraction associated with Civil Fine or Penalty.

Approved By: ***Date:*** 9/20/2022 10:05:00 AM

Permit number	403106
Submission Date	9/2/2022
Address of project	4615 14th Street NW
Square	2811
Lot	0802

Number of borings	3	Type of borings	Geotechnical Soil Boring

Applicant Information

Name	Monling Lee
Company	Interagency Inc.
Email	monling.lee@interagency.biz
Phone number	(301) 310-8772

Driller Information

Company	E2CR, Inc.
License number	410512000317
Email	email@e2cr.com
Phone number	(410) 737-9100

Reviewer Information

Name	KiDon Cho
Email	kidon.cho@dc.gov
Phone number	(202) 535-1936

Well and soil boring permit conditions

This confirms that information has been submitted by Monling Lee in the Surface and Groundwater system to support your Permit on 9/2/2022 6:30:00 PM, permit number 403106 & registration number Bt-403106-003-1 for Construction Permit form located at 4615 14th Street NW.

I understand and acknowledge that by checking the boxes below, I am legally agreeing to the conditions listed in this document

☒ All drill cuttings and investigation derived wastes from potentially contaminated sites or known contaminated sites **shall be containerized and laboratory tested for offsite disposal**.

☒ In addition to standard disposal testing, soils with **suspected petroleum contamination** shall be tested using USEPA Method 8015M and shall **not be used as backfill or placed on the ground** if the concentrations exceed standards for soil quality stated in 20 DCMR 6208.1. Non-hazardous soils with Total Petroleum Hydrocarbons concentrations less than 100 ppm may be used as backfill or placed on the site. Soils shall **not be stockpiled** but spread in a manner consistent with DC Erosion and Sediment Control Standards.

☒ **Ground water** and/or any liquid **wastes generated by the boring or well drilling and testing** activities (such as decontamination water, purge water, well development water, dewatering effluent and mud slurries) **shall be laboratory tested** for chemical analytes known or suspected to be at the site and the results compared to the DC Ground Water Standards (21 DCMR 11) and the DC Underground Storage Tank Regulation for Total Petroleum Hydrocarbons in ground water [20 DCMR 6209.1(b)]. If these values are not exceeded, the water may be slowly placed on the ground surface in such a manner as to **not produce ponding or a discharge** onto adjacent properties or into nearby surface water bodies or into a storm drain or stormwater catchment basin. To be permitted to discharge to the storm sewer system, groundwater sampling must be conducted, and the results submitted to DOEE. For additional information and work plan approval, contact The Department of Energy and Environment, Regulatory Review Division (DOEE RRD) MS4DischargeAuthorization@dc.gov.

☒ A well shall be grouted as soon as possible but not later than twenty-four (24) hours after the well casing has been set in place unless otherwise permitted in writing from DOEE RRD. If construction activities halt before the well is grouted, the open annular space shall be covered and protected from contamination from any source, including surface water drainage, and the well casing capped.

☒ In accordance with DC Law § 8-103.13a, **wells or borings shall be drilled/installed, maintained and abandoned in a manner to prevent contamination of ground water resources and cross-contamination of ground water aquifers** (also see DOEE's **Well Construction Requirements**). **Five (5) days** of advanced notice of drilling activities shall be given to DOEE. **Within 60 days** of installation, well owner(s) contact information, the horizontal locations of the wells or borings using either the Maryland State Plane Coordinate System or latitude and longitude, vertical elevations including the reference datum used, well construction details and lithologic boring **logs shall submitted to DOEE RRD, well.permits@dc.gov.**

☒ **Prior to sealing a well**, the owner shall ensure that all obstructions which may interfere with the effective sealing operations are removed. Appurtenant structures, including terminal structures and any well casing shall be removed. If removal of the casing is not possible, the casing shall be ripped or perforated.

☒ **Abandoned wells and boreholes shall be filled using bentonite slurry (two pounds bentonite powder to one gallon water).** Sealing materials must be introduced at the bottom of the well or borehole and placed progressively upward. The owner shall **report any abandoned wells within 60 days of abandonment to the DOEE RRD, well.permits@dc.gov.**

☒ **Vertical, closed-loop ground source heat pump wells shall be constructed** using **high density polyethylene pipes (HDPE)**, an **anti-freeze solution,** preferably < 20% propylene glycol and, inert **bentonite or thermally-enhanced low permeability grout** that would not allow groundwater flow through the grout to exceed $1x10^{-7}$ cm/s. Geothermal systems shall not be abandoned without first obtaining approval from DOEE RRD.

Signature: Monling Lee

DEPARTMENT OF ENERGY & ENVIRONMENT

Well Construction Permit Application/Registration Form

Well Permit # **403106**

Well Registration # **Bt-403106-003-1**

Use this form for all wells excluding geothermal, dewatering and supply wells.
Attach Well Construction Work Plan; DOEE Schematic; site plan; supporting documents, such as lithological or geophysical boring logs, geotechnical reports, environmental site assessments, and any additional reports or relevant information.

Section A: Well Owner Information

A1-1	Property Owner(s):	**James Ashe**	*A1-2*	Agent for Owner (name):	**Monling Lee**
A2-1	Title/Company:		*A2-2*	Title/Company:	**Interagency Inc.**
A3-1	Mailing Address:	**James Ashe** **4615 14TH Street NW** **WASHINGTON, DC 20011**	*A3-2*	Mailing Address:	**Monling Lee** **80 M Street Se** **Suite 200** **Washington, DC 20003**
A4-1	City, State, ZIP:		*A4-2*	City, State, ZIP:	
A5-1	Phone:	**(202) 400-1550**	*A5-2*	Phone:	**(301) 310-8772**
A6-1	Email:	**jashe@wmata.com**	*A6-2*	Email:	**monling.lee@interagency.biz**

Section B: Driller / Company Responsible for Drilling / Installing the Well

B1-1	Name(s):	**E2CR, Inc.**	*B1-2*	Name (POC):	
B2-1	Mailing Address:	**1405-A Parker Road, Baltimore, Maryland 21227**	*B2-2*	Mailing Address:	
B3-1	City, State, ZIP:		*B3-2*	City, State, ZIP:	
B4-1	Phone:	**(410) 737-9100**	*B4-2*	Phone:	
B5-1	Email:	**email@e2cr.com**	*B5-2*	Email:	

B6	DCRA Business License No. (Provide Copy):	**410512000317**	Exp. Date:	**5/31/2024**
B7	State Driller License No. (Provide Copy):	**48046**	Exp. Date:	**11/30/2021**

Section C: General Well Information

C1	Is this a Due Diligence[1] Permit Application?	
C2	Type of Well (check one): (If different type of wells are considered to be installed, use separate forms)	**Geotechnical Soil Boring**
C3	Number of Wells:	**3**
C4	Limits of disturbance:	sqft
C5	Area of excavation:	**cuyd/cuft**
C6	Name and Overall purpose of the project and all intended well uses:	**Supplemental Soil Testing**
C7	SWPP required?	**No**
C8	Are wells required as part of a regulatory action?	**Yes**

Section D: Well Location Information

D1	Well Owner[2] if different from property owner):			
D2	Physical Address of Well(s):	**4615 14th Street NW**		
D3	Square, Suffix, & Lot (SSL):	Square: **2811**	Suffix:	Lot: **0802**
D4	Topography (check one):			
D5	Geology (check one):	**Unconsolidated**		

DEPARTMENT OF ENERGY & ENVIRONMENT

D6	Geologic Formation (if known):	
D7	Aquifer penetrated (check one):	**Single**
D8	Aquifer names (if known):	
D9	Drilling method (check all applicable):	**Direct push**
D10	Will drilling fluids/muds include additives other than potable water?	**No**
D11	Will the following be placed in the well (please attach specifications & features) (check all applicable)?	**None**
D12	Previous environmental or geotechnical work done at the site?	**Yes Previous work performed under PA382061**
D13	Recognized environmental concern on site or within 500 feet of site:	Yes
D14	Outer casing to be used (check all that apply) and Material :	**N/A**
D15	Outer casing purpose (specify for each type of casing used)*:	
D16	Will derived waste be containerized, laboratory tested, & taken offsite for proper disposal?	**Yes**
D17	Will drilling equipment be decontaminated between holes?	**Yes Clean water rinse, liquinox wash, clean water rinse**
D18	FOR INFILTRATION WELLS: • If only intended for Stormwater BMP evaluation, will potable water be used? • For contaminant remediation, complete D19. • For other infiltration purposes, will the quality of the infiltrate always not exceed the Groundwater Quality Standards (21 DCMR 11)? Also, identify: o The water source(s) and quality o Current, historic and new site use o The duration of infiltration o The timing of infiltration (e.g., frozen ground, wet season, dry season, etc.) o The rate of infiltration o The site lithology (provide boring logs) o The receiving soil hydraulic conductivity o The topographic gradient o The depth to groundwater o The hydraulic gradient o The direction of groundwater flow o Impacts to groundwater level and flow o Impact to onsite or nearby Recognized Environmental Conditions o Impact to onsite or nearby property and environmentally-sensitive environments	

DEPARTMENT OF ENERGY & ENVIRONMENT

D19	FOR INJECTION WELLS *Chemical or Biological Injection Used for Remedial Purposes* (Attach DOEE In-Situ Chemical Oxidation Form and supporting documentation) • UIC Permit received from EPA? • List all materials to be injected. Provide details including SDS and Manufacturer's Specifications. • List all the expected byproducts and degradates produced by the proposed reaction(s) • What is the normal environmental fate of the injected materials/reactants and their byproducts and degradates? • What are the start and end dates of injection? • How long is the chemical and/or biological reaction expected to occur after injection? • After the reaction ends, will any introduced materials or their byproducts or degradates expected to exceed Groundwater Quality Standards? • If applicable, how will these exceedances be addressed? • Will the migration of pollutants, including chemical or biological reactants, byproducts and degradates extend beyond the property line? • Are there nearby utilities, structures, operations, sensitive environments, resources, or populations that may be impacted by the proposed injection? • Are there any other onsite pollutants not targeted for treatment by this injection? • Will there be any negative impact to the natural degradation of a pollutant not targeted for treatment by the injection system? • Were Pilot and/or Bench Tests conducted? • Is the proposed injection a part of a phased approach?	

DEPARTMENT OF ENERGY & ENVIRONMENT

D20	FOR OTHER TYPES OF WELLS for which specific standards were not developed in 21 DCMR 18 including wells used for geotechnical, and geophysical purposes; and data collection from instruments, such as extensometers, inclinometers, vibrating wire piezometers and cone penetrometers: • Provide details of proposed well construction • Identify any design features that do not comply with the general well construction standards of 21 DCMR 18, especially at contaminated sites • Describe an alternative Special Standard(s) with supporting documentation that will provide protection at least equal to the general well construction standards of 21 DCMR 18 • Identify any conflicts that could result with the well maintenance, use and abandonment requirements for all wells in 21 DCMR 18 and how these could be resolved • If for instrument data collection, how long is instrument installation required?	

Section E: Comments

Any answers to questions that contain an asterisk (*) must be explained here. Add additional sheets if necessary.

Section F: Declaration & Signature

I understand that the above registered wells will be deemed constructed unless any unused registration tags are returned or the wells abandoned according to 21 DCMR 18. Constructed wells shall be maintained and registered as required.

I certify that I have read and understand the requirements for well construction application requirements and well registration and that any representations I made here are true and accurate to the best of my knowledge. If I fail to follow the requirements of this application, I acknowledge that this application, and any permits and registrations issued as a result of it, may be revoked under the District authority and discretion. I acknowledge that I have been advised that failure to obtain a well permit before I start well construction activities may subject me to criminal and/or civil penalties.

Name (print) **Monling Lee** Signature **Monling Lee** Date **9/15/2022 3:49:00 PM**

Owner ☐ Agent for owner ☒ Well Driller Performing Work ☐

If contact information is not listed in Sections A or B, please provide here:

Position/Company: Name (print):

Address: Phone: Email:

Upon approval, each well will be constructed and used in accordance with the DCRA or DDOT permit and approved workplan. The well identification tags and DOEE assigned numbers will be used and applied in accordance with 21 DCMR 1821. Unused tags and tags from abandoned wells will be returned to DOEE. A Well Construction Completion Report will be submitted to DOEE within 60 days of construction of each well.

[1] A well that is installed to assess the environmental conditions on a site as part of a property transfer and/or transactions. These wells are also often temporary wells installed and sampled as part of a Phase II Environmental Site Assessment, if Recognized Environmental Conditions are identified during a Phase I Environmental Site Assessment.

2 In the District, the property owner typically is the well owner. However, in rare circumstances, they may not be the same person, such as when conducting an investigation on a neighboring property, or on public space, or when there is a transfer of land ownership of a contaminated site, but, the liability involving well construction and operation stays with the previous owner.

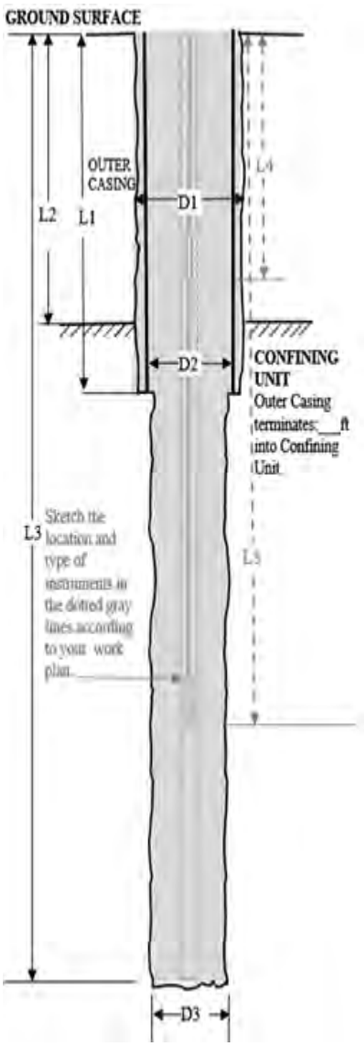
DEPARTMENT OF ENERGY & ENVIRONMENT

SOIL/GEOTECHNICAL/GEOPHYSICAL/BORING SCHEMATIC
Outer Casing Inserted into Confining Unit

District of Columbia
Regulatory Review
Division

403106

Check one: Application ☒ *As-Built* ☐



1	**Type of boring**	**Geotechnical Soil Borings**
2	**Borehole diameter (D1) (inches)**	**3**
3	**Outer casing (use if area is contaminated)**	
3.1	Temporary or permanent?	
3.2	Material	**PVC**
3.3	Diameter D2 (inches)	
3.4	Length (L1) (feet)	
3.5	Casing terminates 10 feet into confining unit?	
3.6	Thickness of confining unit (feet)	
3.7	Depth to the top of the confining unit (L2) (feet)	
4	**Grout around outer casing**	
4.1	Material	
4.2	Ratio of solids to solids (if applies) (pounds : pounds)	**60:40 ratio of 150 lbs bentonite and 94 lbs of Portland cement hydrated with 82 gallon of water**
4.3	Ratio solids to water (pounds : gallons)	**3:1**
4.4	Hydraulic conductivity (cm/s)	
5	**Grout around well pipe (ignore if same as outer casing's grout)**	
5.1	Material	
5.2	Ratio of solids to solids (if applies) (pounds : pounds)	
5.3	Ratio of solids to water (pounds : gallons)	
5.4	Hydraulic conductivity (cm/s)	
5.5	Tremie-grouted from bottom of borehole?	**Yes**
5.6	Using a positive displacement pump?	**Yes**
6	**If instrumentation will be installed, provide description and depths**	
7	**If soil boring is not completed or in use, describe how it will be covered and protected (21 DCMR 1812.3-4)**	**A filter pack will be placed around screen up to 2 feet above screened interval, followed by a fine sand seal and bentonite/neat cement to surface. Wells will be installed via Geoprobe push technology.**
8	**Will boring be abandoned within 30 days of construction /completion?**	**Yes**
8.1	If yes, attach the Abandonment Work Plan	
9	**Is the borehole intended to reach the bedrock?**	**No**
9.1	If yes, depth to top of competent rock (feet)	
9.2	Depth to top of weathered rock (feet)	
10	**Depth to bottom of borehole** (L3) (feet)	**8**
11	**Borehole diameter** (D3) (inches):	**3**

WELL ID'S: **SB-68 ; SB-69 ; SB-70**

REGISTRATION NUMBER (S): **Bt-403106-003-1-Bt001 ; Bt002 ; Bt003**

PERMIT NUMBER: **403106**

WELL ADDRESS: **4615 14th Street NW**

SSL: **2811 , & 0802**

WELL OWNER: **James Ashe**

OWNER ADDRESS: **James Ashe**

4615 14TH Street NW

WASHINGTON, DC 20011

SIGNATURE: **Monling Lee**

DATE & TIME: **9/2/2022 6:30:00 PM (Signed electronically)**

Professional Service Industries, Inc.
2930 Eskridge Road
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Mr. Michael Randolph
Project Manager
STV Incorporated
120 East Baltimore Street, Suite 1710
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Subject: Supplemental Site Assessment Work Plan
Soil Boring Installation (Public Space)
WMATA Northern Bus Station
4615 14th Street NW
Washington, D.C 20011

Dear Mr. Randolph:

Pursuant to your request and in response to meetings between Washington D.C. Metropolitan Area Transit Authority (WMATA) representatives and Washington D.C. Department of Energy and Environment (DOEE) representatives on June 2 and 3, 2022, Professional Service Industries, Inc. (PSI), an Intertek company, has prepared this Supplemental Site Assessment (SSA) Work Plan for the above-referenced property. One electronic copy of the SSA Work Plan has been prepared for your use.

Thank you for choosing PSI as your consultant for this project. If you have any questions regarding the information contained herein, or if we can be of additional service, please contact the undersigned at (407) 908-0199.

Respectfully submitted,

PROFESSIONAL SERVICE INDUSTRIES, INC.

Jeffrey M. Martineau
Director/Principal Consultant

Angela C. Garzia
Principal Consultant

cc: Mr. Hamid Riahi, PSI

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ACRONYM LIST

AMSL	Above Mean Sea Level
AST	Aboveground Storage Tank
BLS	Below Land Surface
BTEX	Benzene, Toluene, Ethylbenzene, total Xylenes
SSA	Supplemental Site Assessment
DCRBCA	District of Columbia Risk Based Corrective Action
DOEE	Department of Energy and Environment
DRO	Diesel Range Organics
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
GRO	Gasoline Range Organics
HSA	Hollow Stem Auger
I	Hydraulic Gradient
IDW	Investigative Derived Waste
K	Hydraulic Conductivity
MCL	Maximum Contaminant Level
NAVD 88	North American Vertical Datum of 1988
NELAC	National Environmental Laboratory Accreditation Conference
NPDWR	National Public Drinking Water Regulations
ORO	Oil Range Organics
OVA	Organic Vapor Analyzer
OWS	Oil-Water Separator
PAHs	Polycyclic Aromatic Hydrocarbons
PCA	Preliminary Contamination Assessment
PCE	Tetrachloroethylene
PCBs	Polychlorinated Biphenyls
PEI	Preliminary Environmental Investigation
PID	Photoionization Detector
PSI	Professional Service Industries, Inc.
PVC	Polyvinyl Chloride
QA/QC	Quality Assurance/Quality Control
RBSL	Risk-Based Screening Level
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SSL	Site Specific Screening Level
STV	STV Incorporated
SVOCs	Semi-Volatile Organic Compounds
TCE	Trichloroethylene
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Top-of-Casing
TPH	Total Petroleum Hydrocarbons

ACRONYM LIST (continued)

USDA	United States Department of Agriculture
USGS	United States Geological Survey
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
WMATA	Washington Metropolitan Area Transit Authority

1 INTRODUCTION

Professional Service Industries, Inc. (PSI), an Intertek company, has prepared this Supplemental Site Assessment (SSA) Work Plan for the Washington Metropolitan Area Transit Authority (WMATA) Northern Bus Garage on behalf of STV Incorporated (STV). The project is located at 4615 14th Street NW in Washington, District of Columbia (D.C.). This document has been prepared in response to meetings between WMATA representatives and Washington D.C. Department of Energy and Environment (DOEE) representatives on June 2 and 3, 2022 and is a continuation of the assessment activities presented in the previously submitted Comprehensive Site Assessment (CSA) Report, dated March 10, 2022. To comply with DOEE's request, the activities described in this work plan will be conducted to complete the requirements as agreed upon by both parties.

The activities described in this work plan will be conducted in accordance with the DOEE Risk-Based Corrective Action Technical Guidance document, dated June 2011 (https://doee.dc.gov/publication/dc-risk-based-corrective-action-dcrbca-or-risk-based-decision-making-dcrbdm-process).

2 SITE DESCRIPTION AND HISTORY

2.1 Site Location

The subject property is located in a mixed-use neighborhood surrounded by residential housing and commercial properties. The site is improved with an approximately 270,000 square foot multi-story building, with the oldest portion of the building constructed in 1906. The subject property is owned by WMATA and is located on Square 2811/2815 and Property ID 2811 0802 of the Washington D.C. Real Estate Map. The on-site building historically has been used for bus storage and maintenance, and consists of administrative offices, employee parking deck, maintenance/repair bays, bus wash areas, storage rooms, and a garage with capacity for approximately 150 buses.

Site Location Map



Currently, the site is inactive as a WMATA bus division and has limited occupancy for staff planning the reconstruction; however, infrastructure associated with the former bus storage/maintenance facility remains on-site. WMATA plans to demolish the majority of the existing on-site building to redevelop the site for mixed use (new bus garage and retail space) and will preserve a limited portion of the original 1906 trolley barn. The site is bounded by residential and commercial properties to the north along Decatur Street, to the east along Iowa Ave NW and Arkansas Ave NW, to the west by 14th St NW, and to the south by Buchanan St NW.

The site is fully serviced by public utilities including water and sewer. Groundwater is not used as a source of potable water on or in the vicinity of the site.

2.2 Site History

A public transit support facility has operated at the 4615 14th Street NW, Washington, D.C. location since approximately 1906. The location has primarily been utilized for the operation and maintenance of transit vehicles beginning with trolley cars. The facility was managed by a private busing business in the 1940s-1950s; however, in the mid-1970s, WMATA assumed control of operation and maintenance responsibilities of the facility and buses in the metropolitan area. Historically, usage of portions of the subject property included use as a trolley carriage house, bus storage and maintenance, vehicle fueling, auto-maintenance and vehicle washing.

Various facility modifications were performed between the early 1980s through early 2000s, which included the construction of a wall around the facility to minimize community impacts from the on-site activities. During a site geotechnical investigation for the planned renovations/construction activities performed in late 2019/early 2020, petroleum-related vapors were identified in the site soils in the vicinity of the existing on-site underground storage tanks (USTs). Previous USTs were removed from the ground during the renovation/construction activities, which were completed in the early 1990s.

Complete historic information regarding maintenance practices and chemical usage at the facility is not available. Several petroleum USTs and aboveground storage tanks (ASTs) have been installed and removed from the site. Additionally, laundry/dry-cleaning facilities existed along 14th Street (west of the subject property) between 1927 and 1985. Additional information is provided in Section 2.3.

A review of available fire insurance maps (Sanborn) and aerial photographs indicated the following information:

- 1927 (Sanborn) - The site depicts the original Car Barn structure for Washington Rapid Transit Co. Bus Station, built in 1907. Structures depicting shops and garages also appear on the southern portion of the property.

- 1951- 1960 (Aerials & Sanborn) - The site is improved with a bus garage with a gas pump in the eastern portion of the original building. The Sanborn also depicts a filling station located in the southwest corner of the subject property.

- 1963-1985 (Aerials) – Bus operations continue.

- 1988-1991 (Aerials) - The shops and garage structures on the southern portion of the property have been removed by approximately 1989.

- 1992-2017 (Aerials) - The on-site structure was improved with a roof parking lot and bus repair shop over the eastern and southern portion of the property.

2.3 Summary of Previous Investigations

Previous investigations at the Site have been conducted by Versar, Inc., PSI, and others. This section provides a basic overview of activities.

Petroleum Impacts (Information Obtained from Versar's 2003 ESA)
Based on historical information provided in the Versar's 2003 ESA report, petroleum-related soil and/or groundwater impacts have been identified on the subject property at various times during the facility operation. The petroleum-related impacts have been attributed to leaking USTs utilized at the facility for storing fuel and/or automotive oils. During a geotechnical investigation performed in 1984, petroleum-related odors were observed in soils in the vicinity of several on-site USTs. Following the discovery of the soil impacts, the USTs were scheduled to be removed from the site during planned renovation work. A preliminary contamination assessment (PCA) was performed in 1989, during which five (5) monitoring wells were installed for groundwater monitoring purposes. A groundwater recovery and treatment system was installed in the southeastern portion of the subject property in late 1989 and removed in mid-1990. Site renovation activities were also performed from 1990-1991, during which the USTs and approximately 13,750 cubic yards of petroleum-impacted soil were removed from the site for proper disposal.

An aquifer pump test was performed in 1992 to collect hydrologic information for the design of a groundwater treatment system to remediate the identified on-site petroleum-related groundwater impacts. An in-well separator free product recovery pump was installed in one of the on-site monitoring wells with plumbing connected to a storage tank located within the bus garage where the free product would be collected. In 1999, an air sparge unit replaced the in-well separator due to insufficient product recovery.

The historical information additionally indicated that the on-site petroleum-related groundwater impacts appear to be degrading and/or are naturally attenuating. The report also stated that the lack of off-site detected impacts indicate that the bus garage operations and maintenance activities have not significantly impacted the surrounding area.

Chlorinated Solvents Information Obtained from Versar 2003 ESA Report)
In 1993, groundwater impact by chlorinated solvent related compounds were identified on the southern portion of the subject property. A risk assessment was performed to address concerns regarding the detected concentrations in the groundwater samples collected from Monitoring Wells MW-21 and MW-22. The risk assessment concluded that the detected concentrations posed no excessive risk to human health at that time. An ESA report prepared in 2003, indicated that chlorinated solvent impacts remained in the vicinity of Monitoring Wells MW-21 and MW-22; however, appeared to be natural attenuating as observed by the breakdown components associated with tetrachloroethylene (PCE). Additionally, the ESA indicated the most likely source(s) of the chlorinated solvent groundwater impact were historic dry-cleaning facilities previously located adjacent-west of the subject property along 14th Street NW.

Preliminary Environmental Investigation (PEI) Report (PSI, February 2020)
Analytical results for the soil samples collected within the on-site building footprint during the November-December 2019 PEI investigation indicated the presence of metals and petroleum-related compounds at concentrations above their respective DOEE Tier 1 SSLs, DCRBCA contact levels, and/or EPA RSLs at various locations throughout the site. Soil impacts were generally localized in the vicinity of multiple in-ground structures.

Analytical results for the groundwater samples collected within the on-site building footprint during the November-December 2019 PEI investigation indicated the presence of polychlorinated biphenyls (PCBs), petroleum-, and/or chlorinated solvent-related test parameters at concentrations above their respective DOEE Tier 1 Screening Levels for Groundwater, DOEE Groundwater Quality Standards, and/or EPA national primary drinking water regulations (NPDWR) maximum contaminant levels (MCLs) in the shallow aquifer.
The PCB and petroleum-related groundwater impacts appeared to be localized in areas near conveyances for surface water drainage, which may indicate leakage of this system in these areas or residual impacts from historic discharges.

The chlorinated-solvent in groundwater impacts appeared to be limited to the southern portion of the site; however, based on review of historical environmental assessments performed at the site as well as a review of subsurface groundwater flow and bedrock topography, the chlorinated solvents appear to have likely originated from an off-site source.

Comprehensive Site Assessment (CSA) Report (PSI, March 2022)
The investigation activities documented in the CSA Report are a continuation of assessment activities performed at the site in anticipation of demolition of the on-site building/structures and the construction of a new WMATA bus garage and maintenance facility.

Field investigation and sampling activities were performed by PSI personnel in October and December 2021 (soil sampling and well installation) and January 2022 (groundwater sampling). Soil cuttings generated during the performance of the soil borings, groundwater generated during development and sampling of the temporary/permanent monitoring wells, and decontamination water were placed into 55-gallon steel drums. The drums of cuttings have subsequently been transported off-site for proper disposal.

Soil Assessment Activities
Utilizing hand auger, conventional drilling split-spoon, and/or Geoprobe® drill-rig methodologies, PSI personnel observed the advancement of 40 soil borings. Of the 40 soil borings, nine (9) soil borings were attempted; however, refusal was encountered in these borings at depths ranging from 4 to 13.5 feet below land surface (BLS). Where refusal was met, a second boring was performed immediately adjacent to the first boring to verify if the encountered obstruction or rock was localized to the previous boring. The groundwater table was encountered at depths ranging from 5 feet BLS to 21 feet BLS in the soil borings performed based on subsequent groundwater measurements in the permanent and temporary monitoring wells.

Based on field observations and on responses from soil screening activities, utilizing an organic vapor analyzer equipped with a photo-ionization detector (OVA-PID), PSI collected 19 soil samples for laboratory analysis. Analytical results for the soil samples collected during the October/December 2021 sampling events indicated the presence of metals- and petroleum-related soil impacts; however, none of the samples analyzed indicated the presence of test parameters at concentrations above their respective DOEE Tier 1 Soil Screening Levels for construction workers.

Permanent Monitoring Well Installation Activities

Three (3) shallow (soil) permanent wells were installed to depths of approximately 27 feet BLS, and one (1) deep (bedrock) permanent well was installed to a depth of approximately 38 feet BLS utilizing hollow-stem auger methodologies within the eastern portion of the subject property.

During development of Monitoring Well MW-003, light non-aqueous phase liquid (LNAPL) was identified within the monitoring well. The viscous material measured less than 1-inch in thickness.

Temporary Monitoring Well Installation Activities

Originally, direct groundwater samples via Geoprobe™ water sampler were included in the CSA Work Plan to facilitate the collection of shallow/deep groundwater samples at the site. However, due to concerns regarding slow recharge rates, PSI recommended converting the soil borings performed during the soil investigation activities into temporary monitoring wells utilizing pre-packed well screens.

Where refusal or shallow bedrock was not encountered, PSI installed a shallow (soil) temporary monitoring well, with the screen interval bracketing the groundwater table, and a deep (bedrock) temporary monitoring well with its termination depth directly above the determined depth of bedrock

Groundwater Sampling Activities

On January 5, 2022, PSI personnel collected depth-to-groundwater measurements from all on-site permanent/temporary monitoring wells for later use in calculating groundwater flow direction at the site. The groundwater levels were collected within a 24-hour period and were measured from top-of-casing (TOC) and recorded to the nearest 0.01 of a foot.

From January 7 to 11, 2022, PSI personnel collected groundwater samples from 23 monitoring wells for laboratory analysis. Analytical results indicated the presence of petroleum- and chlorinated solvent-related test parameters; however, only Total Petroleum Hydrocarbons (TPH) – Diesel Range Organics (DGO) was identified above its DOEE Tier 1 Screening Levels for Groundwater in one groundwater sample (MW-002 on the east side of the building).

Groundwater Flow Determination

Utilizing TOC elevation and depth-to-groundwater measurements collected from the permanent and temporary monitoring wells performed/installed as part of the CSA activities, groundwater elevations were calculated by subtracting the depth-to-groundwater measurements from the TOC elevations for each borehole/well. Based on these calculations, the groundwater flow direction in the shallow and deep aquifer was determined to be towards the southeast. The shallow and deep aquifer groundwater flows appear to be generally consistent with historic assessments and data collected by PSI during the 2019/2020 geotechnical and environmental sampling programs.

Potential Impact

Based on the extent and concentrations of the impacts identified during the CSA activities, the identified soil and groundwater impacts do not represent a significant threat to any properties in the vicinity of the subject property. Additionally, the chlorinated solvent groundwater plume concentrations appear to be consistent

with historic environmental assessments performed at the site property over the past two decades, and the groundwater impact plume appears to be stable in size indicating little to no migration.

Cross-Sectional Summaries

Based on the extent and concentrations of petroleum and chlorinated solvent impacts identified during performance of the CSA and previous assessment activities performed to date, PSI has provided a site plan with two (2) associated cross-sectional drawings providing the following information:

- Groundwater table surface elevation;
- Top of rock elevation based on geotechnical boring data collected by PSI;
- Area of petroleum-impacted soil exceeding DOEE Tier I (Construction Worker) criteria;
- Area of petroleum-impacted groundwater exceeding DOEE Tier I Screening Levels; and
- Area of solvent-impacted groundwater exceeding EPA Maximum Contaminant Levels (MCLs).

3 PROPOSED SSA ACTIVITIES

This SSA work plan details planned supplemental soil and groundwater assessment activities and the collection of confirmatory soil samples from areas planned for excavation and off-site disposal as part of the on-site remedial activities. The proposed remedial activities to be undertaken prior to and during the planned construction activities are discussed in a sperate document (Draft Soil Remediation and Groundwater Management Plan – PSI, June 2022).

3.1 Soil and Groundwater Sampling and Analysis

As previously discussed, groundwater flow at the subject property has been determined to be towards the southeast. At the request of the DOEE, further assessment of the petroleum and chlorinated solvent impact identified at the subject property are proposed in the following sections.

3.1.1 Petroleum Impacted Areas

Soil Sampling and Analysis – Off Site

Two (2) soil borings (SB-68 and SB-70) will be performed on the east side of Arkansas Avenue NW in positions located approximately 60 feet to the north and 60 feet to the south of Soil Boring SB-015. A third soil boring (SB-69) will be performed as far east of SB-015 as is accessible within the limits of the road Right-of-Way (ROW). The performance of these soil borings will be to facilitate the collection of soil samples at a depth of 6 to 8 feet BLS. The sampling depth of 6 to 8 feet BLS was selected based on the previous analytical results of a soil sample collected from a depth of 6 to 8 feet BLS in Soil Boring SB-015SS, which resulted in slightly elevated concentrations of TPH-GRO. The soil samples will be submitted for laboratory analysis for TPH-GRO/DRO.

See Figure 1 for the locations of the proposed soil sampling locations (within the beige highlighted area).

Soil Sampling and Analysis – On-Site

Seven (7) soil borings (SB-61 through SB-67) will be performed within the on-site structure in positions identified in Figure 1 to provide additional analytical data relative to the previously identified petroleum impacted soil areas within the northeastern area of the structure. The performance of these soil borings will be to facilitate the collection of soil samples at continuous 2-foot intervals to depths extending to 2 feet into the groundwater table, or refusal, whichever is encountered first. Each soil sample will be visually classified and field screened for organic vapors utilizing an OVA-PID. Based on field observation and OVA-PID screening responses, personnel will collect up to two soil samples from each borehole selected based on field observations, historical data, and the field engineer's opinion on what is needed to better define the horizontal and vertical extent of petroleum impacts exceeding DOEE Tier 1 Soil Screening Levels for Construction Workers criteria. Up to twelve (12) soil samples will be submitted for laboratory analysis by EPA Method 8270 for SVOCs and TPH-GRO/DRO/ORO.

See Figure 2 for the locations of the proposed soil sampling locations (within the purple highlighted area).

3.1.2 Chlorinated Solvent Impacted Area

Soil Sampling and Analysis

Five (5) soil borings (SB-019SS through SB-023SS) will be performed in positions identified in Figure 1 to provide additional analytical data relative to the previously identified chlorinated solvent groundwater impacts within the southern area of the on-site structure. Three (3) of the borings (SB-019SS, SB-021SS, and SB-022SS) will be performed along an east to west transect approximately 75 to 130 feet north of previously sampled temporary monitoring well clusters TMW-013, TMW-006, and TMW- 011 as presented on Figure 2. Two (2) of these borings will be performed within the structure, while the third soil boring will be performed immediately to the east of the structure within the ROW. The fourth boring will be performed within the structure at what has been determined to be a low point in the underlying rock layer, which based on the geotechnical investigation previously performed by PSI, would be in the proximity of Geotech Soil Boring 19BH080. One additional soil boring (SB-023SS) will be performed approximately 200 feet north of proposed soil boring SB-0202SS. The performance of the five (5) soil borings will be to facilitate the collection of soil samples at continuous 2-foot intervals to depths extending to refusal. Each soil sample will be visually classified and field screened for organic vapors utilizing an OVA-PID. Based on field observation and OVA-PID screening responses, personnel will collect one (1) soil sample from each borehole at the location indicating the highest likelihood of impact. The soil samples will be submitted for laboratory analysis by EPA Method 8260 for VOCs and TPH-GRO/DRO.

See Figure 2 for the locations of the proposed soil sampling locations (within the green highlighted area).

Groundwater Sampling Points

Groundwater samples will also be collected at the five (5) soil boring locations (SB-019SS through SB-023SS) discussed above. At each location, groundwater samples will be collected from two (2) depth intervals within the same proximity. The first sample will be collected at a depth that will allow the screened interval to intersect the groundwater table surface (TMW-019S through TMW-023S), while a second groundwater sample will be collected from immediately above the bedrock (TMW-019D through TMW-023D) utilizing low-flow methodologies. Due to the field limitations encountered during previous sampling activities, PSI will install temporary monitoring wells to collect the groundwater samples. The temporary monitoring wells will be developed to clear the wells of suspended silts and/or sediments. At the time of sample collection, field readings for pH, specific conductance, temperature, dissolved oxygen, and turbidity will be collected to ensure the samples collected are representative of groundwater in the aquifer.

Upon completion of purging, personnel will then collect groundwater samples for laboratory analysis by EPA Method 8260 for VOCs and TPH-GRO/DRO.

See Figure 2 for the locations of the proposed soil sampling locations (within the green highlighted area).

3.2 Investigative Derived Waste (IDW)

Due to the presence of contaminated soil/groundwater at the site, it is anticipated that decontamination of the drilling equipment between boring locations will be required using a decontamination pad. Borings will be backfilled with grout. Boring cuttings, decontamination/development/purge water and disposable sampling equipment will be collected into clean, clearly labeled 55-gallon drums. The drums will be sealed and temporarily

stored in designated areas established by WMATA at the site for management pending receipt of analytical results. Drums will remain on-site until completion of logging, characterization, and disposal facility acceptance.

Based on the presence and nature of contamination, the most cost-effective option to dispose of IDW containerized within drums at the subject property will be to assume all drums contain some level of impacted material, perform composite sampling for additional analytical characterization required for disposal, and to dispose of all IDW at a licensed facility based on their acceptance of the composite sampling and environmental assessment analytical results.

To facilitate this necessary documentation, up to two (2) composite samples (one soil and one groundwater) will be collected from the drums for submittal to a licensed laboratory following standard chain-of-custody and shipping procedures. The composite samples will be analyzed for Toxicity Characteristic Leaching Procedure (TCLP) including Resource Conservation and Recovery Act (RCRA)-8 Metals via EPA Method 1311 for soil and for total 8 RCRA Metals for groundwater, VOCs via EPA Method 8260, and SVOCs via EPA Method 8270. Upon the licensed disposal facility's receipt and acceptance of the analytical results, IDW drums will be shipped to the licensed disposal facility for processing.

3.3 Surveying

A certified land surveyor will survey the soil boring locations. The survey will include the ground elevation at each monitoring well location. All elevations will be logged against the NGVD 88 Geodetic datum.

3.4 Temporary Monitoring Well Abandonment

The proposed five (5) shallow soil borings will be abandoned immediately following sample collection in accordance with requirements of the DOEE Well Regulations 1802.7. The procedures for abandonment of the wells will consist of the preparation of a DC DOEE Well Abandonment Work Plan, field procedures to accomplish the abandonment, and completion of a well abandonment report (including the DC Well Abandonment Form).

Upon completion of the boreholes, the borings will be tremie grouted with bentonite-cement grout with a mix ratio of no greater than 6 gallons of water per 94 pounds of Portland cement with an additional 5 pounds of sodium-based bentonite per 21 District of Columbia Municipal Regulations (DCMR) §1818.14 Upon completion of the routing, all borings will be tremie grouted with bentonite-cement grout with a mix ratio of 94 pounds Portland cement, 150 pounds bentonite and 82 gallons potable water from the bottom up to at least 5-feet above the bottom depth of the bedrock temporary casing to maintain positive pressure head in the borehole. The well casing will then be removed while tremie- grouting from bottom to surface of the borehole. No instrumentation is planned for these boreholes.

A completion/abandonment report will be submitted to DOEE within 6 months of well installation in accordance with 21 DCMR § 1826 to include:

1. Lithologic Soil boring log(s) with any groundwater level readings;
2. D.C. Well Construction Completion and Abandonment Form;
3. Final boring location plan; and
4. Photographs showing entire abandonment procedures.

3.5 SSA Report

To comply with DOEE's request, the activities described in this work plan will be conducted to support the SSA Report. Field activities will be conducted in accordance with the procedures and methodology described in this work plan and the DOEE Risk-Based Corrective Action Technical Guidance document, dated June 2011 (https://doee.dc.gov/publication/dc-risk-based-corrective-action-dcrbca-or-risk-based-decision-making-dcrbdm-process).

3.6 Quality Assurance/Quality Control

All field decontamination and sampling procedures will be performed in general accordance with the U.S. EPA's Operating Procedures for Soil and Groundwater Sampling, and Chapter 20 Sections 6100 and 6205 of the District of Columbia Municipal Regulations, where applicable. Quality Assurance and Quality Control (QA/QC) samples including trip blanks for laboratory analysis of VOCs by EPA Method 8260 and SVOCs by EPA Method 8270 will be collected for laboratory analysis. All downhole equipment utilized during the field activities will be decontaminated prior to and between each soil boring. Decontamination of said equipment will be accomplished by washing the equipment with a non-phosphate detergent and distilled water solution followed by a final distilled water rinse. Single-use disposable gloves and disposable tubing will be used for each sampling point in an attempt to eliminate cross-contamination between sampling locations.

Laboratory analytical procedures will be performed by National Environmental Laboratory Accreditation Conference (NELAC)-certified Hampton-Clarke, Inc. (NELAC/NJ #07071) located in Fairfield, New Jersey.

4 REFERENCES

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- Environmental Protection Agency Region 1, Low Stress (low flow) Purging and Sampling Procedure For the collection of Ground water Samples from Monitoring Wells, EQASOP#: GW4, September 19, 2017.

- Environmental Protection Agency Region 4, Operating Procedure for Soil Sampling, LSASDPROC-300-R4, June 11, 2020

DEPARTMENT OF ENERGY & ENVIRONMENT

intertek psi

Environmental Services

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Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Proposed Soil Boring Locations in Public Spaces

Drawn By:

Adam Smak

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

0 35' 70'
APPROXIMATE SCALE IN FEET

Project Number:

0444100

Figure Date:

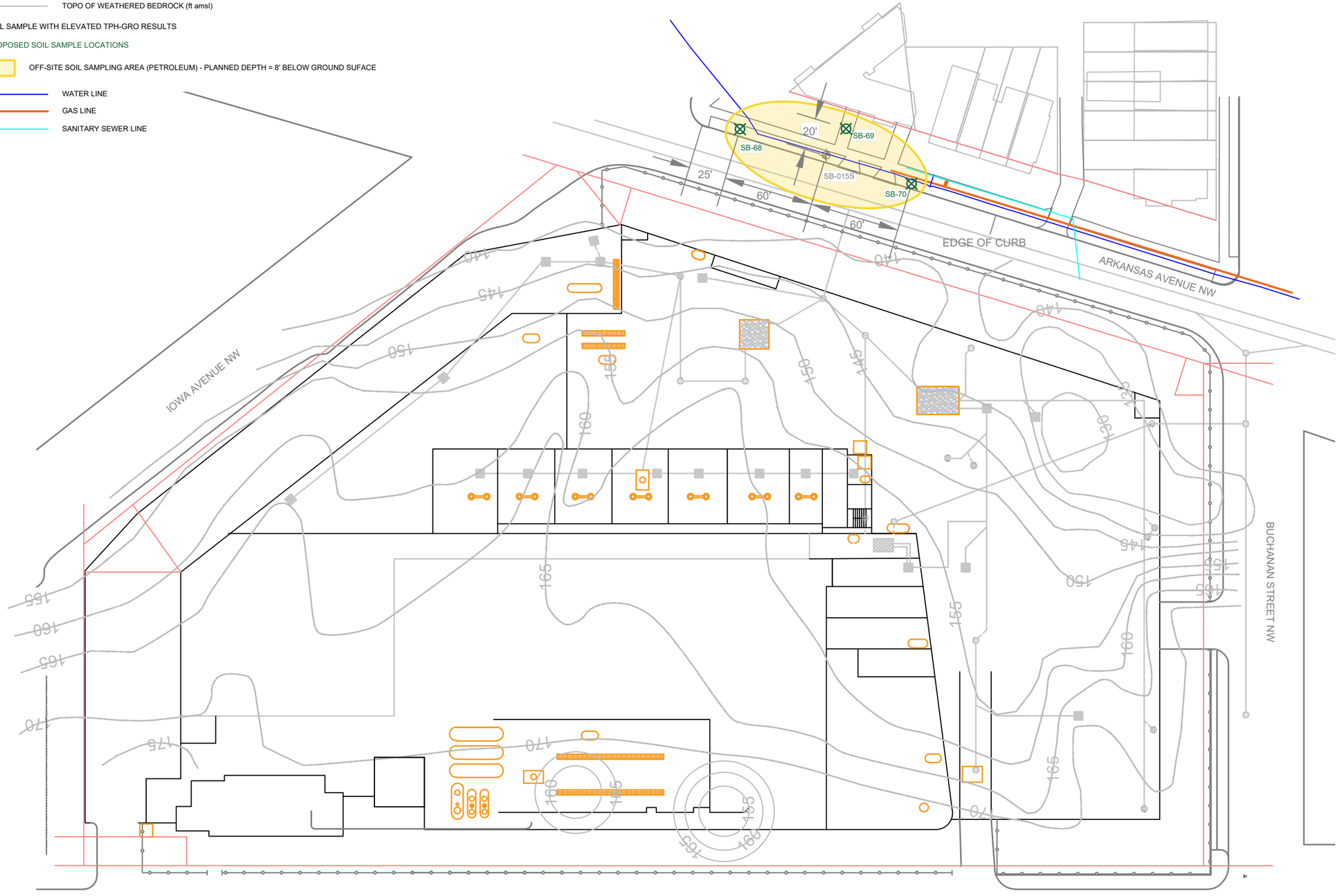
08-30-2022

Figure Number:

1

LEGEND:

- FENCING
- RIGHT OF WAY EASEMENT
- TOPO OF WEATHERED BEDROCK (ft amsl)
- SB-015S — SOIL SAMPLE WITH ELEVATED TPH-GRO RESULTS
- SB-69 — PROPOSED SOIL SAMPLE LOCATIONS
- OFF-SITE SOIL SAMPLING AREA (PETROLEUM) - PLANNED DEPTH = 8' BELOW GROUND SUFACE
- WATER LINE
- GAS LINE
- SANITARY SEWER LINE



DEPARTMENT OF ENERGY & ENVIRONMENT

intertek psi

Environmental Services

2930 Eskridge Road,
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Project Name:

WMATA Northern Bus Garage
4615 14th Street NW,
Washington, DC 20011

Figure Title:

Proposed Soil Boring and Temporary Monitoring Well Locations (On-site)

Drawn By:

Adam Smak

Project Manager:

Jeff Martineau

Figure Legend:

NORTH

0 40' 80'
APPROXIMATE SCALE IN FEET

Project Number:

0444100

Figure Date:

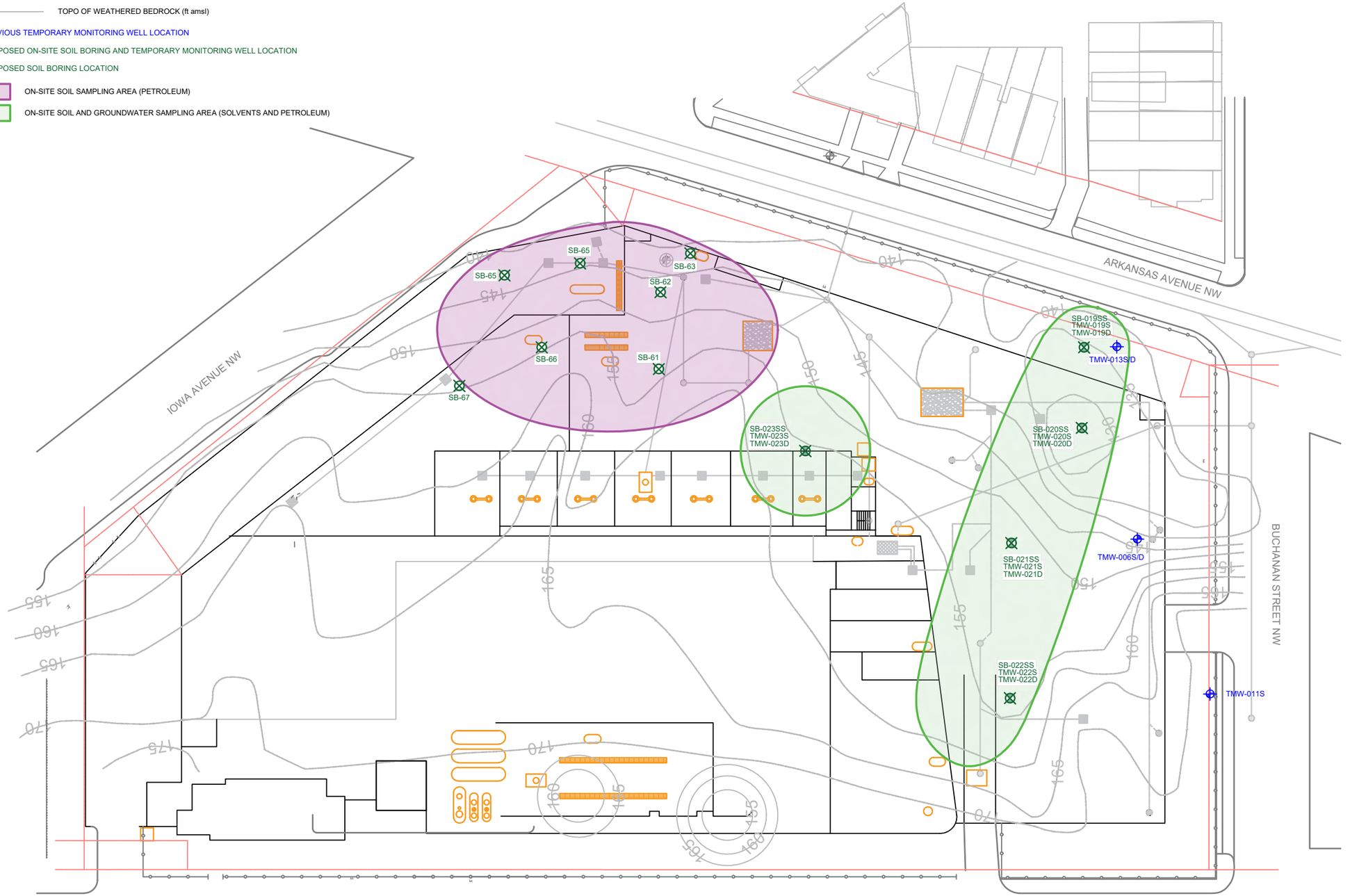
09-07-2022

Figure Number:

2

LEGEND:

- FENCING
- RIGHT OF WAY EASEMENT
- TOPO OF WEATHERED BEDROCK (ft amsl)
- PREVIOUS TEMPORARY MONITORING WELL LOCATION
- PROPOSED ON-SITE SOIL BORING AND TEMPORARY MONITORING WELL LOCATION
- PROPOSED SOIL BORING LOCATION
- ON-SITE SOIL SAMPLING AREA (PETROLEUM)
- ON-SITE SOIL AND GROUNDWATER SAMPLING AREA (SOLVENTS AND PETROLEUM)



DEPARTMENT OF ENERGY & ENVIRONMENT

BUILDING PERMIT APPLICATION SUPPLEMENTAL FORM - ENVIRONMENTAL QUESTIONNAIRE

PROJECT ADDRESS: 4615 14th Street, NW, D.C. SQUARE: 2811 SUFFIX: _____ LOT: 0802

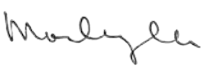
Directions: Please answer all 19 questions in this questionnaire, by checking either column "Yes" or "No" for each question. If you answer "Yes" to any of the questions, you should contact the corresponding office(s) indicated in column 'contact person/office,' as soon as possible. Until this supplement form is reviewed and approved by the concerned office(s), the building permit will not be issued.

SCOPE OF PROJECT	YES	NO	CONTACT PERSON/OFFICE	OFFICE USE
1. Will the work to be performed involve the installation, removal, close-in-place now, or repair of an underground storage tank (UST) system? *Please get approvals or signatures from the Underground Storage Tank Branch, Water Quality Division and the Air Quality Division.*	☐	☑	(202) 535-2600 or ust.ddoe@dc.gov, Underground Storage Tank Branch (202) 535-2600, Air Quality Division, Permitting Branch	
2. Will the work to be performed involve assessment of soil or soil-vapor, or cleanup of soil associated with the released material from an underground storage tank (UST)? *Please get approvals or signatures from the UndergroundStorage Tank Division, Water Quality Division and the Air Quality Division.*	☑	☐	(202) 535-2600 or ust.ddoe@dc.gov , Underground Storage Tank Branch (202) 535-2600, Water Quality Division (202) 535-2600, Air Quality Division	UST Permit # 2022052 Approved, USTB Inspector: NH, 9/19/2022 Olivia Achuko See attached AQD approval conditions
3. Will the work to be performed involve the assessment or clean-up of groundwater associated with the release of material from an underground storage tank (UST)? *Please get approvals or signatures from the Underground Storage Tank Division, Water Quality Division and the Air Quality Division.*	☑	☐	(202) 535-2600 or ust.ddoe@dc.gov, Underground Storage Tank Branch (202) 535-2600, Air Quality Division (202) 535-2600, Water Quality Division	UST Permit # 2022052 Approved, USTB Inspector: NH, 9/19/2022 Olivia Achuko See attached AQD approval conditions
4. Will the proposed project involve the installation or drilling of wells other than for the purposes stated in questions 2 and 3? *Please get approvals or signatures from the Water Quality Division.*	☐	☑	(202) 535-2600, Water Quality Division	
5. Will the proposed project involve installation or drilling of wells using air rotary drilling methods or any methods discharging gases or dust into the air? *Please get approvals or signatures from the Water Quality Division and the Air Quality Division.*	☐	☑	(202) 535-2600, Water Quality Division (202) 535-2600, Air Quality Division, Permitting Branch	
6. Will the proposed project involve the generation, treatment, storage, disposal or transportation of chemicals or other substances which may be considered hazardous? *Contact Hazardous Materials Branch (202) 535-2600.*	☐	☑	(202) 535-2600, Hazardous Waste Branch	
7. Will the proposed use involve the construction of a facility for the handling, transfer, storage, disposal or treatment of solid waste, medical waste, or recyclable materials? *Contact DOEE Environmental Review Coordinator (202) 535-2600.*	☐	☑	(202) 535-2600, DOEE EIS Coordinator	
8. Will the proposed project involve construction which will result in a discharge or release to or withdrawal from a river, stream, wetland, or groundwater or disturb the sediment in rivers, streams or wetlands? *Please get approvals or signatures from the Water Quality Division.*	☐	☑	(202) 535-2600, Water Quality Division	
9. Will the proposed project involve construction which may affect aquatic or terrestrial biota, their habitat, or water quality? *Please get approvals or signatures from the Water Quality Division and the Fisheries and Wildlife Division.*	☐	☑	(202) 535-2600, Water Quality Division (202) 535-2600, Fisheries and Wildlife Division	

DEPARTMENT OF ENERGY & ENVIRONMENT

10. Does the project site contain a species of plant or animal that is federally protected? *Federally protected means that the plant or animal is subjected to limited, restricted, specific, or approved interactions in accordance with Federal guidelines.*	☐	☑	(202) 535-2600, Fisheries and Wildlife Division	
11. Will the proposed project result in the discharge into the air of gases or dust or the creation of any objectionable odors? *Contact Air Quality Division Permitting Branch (202) 535-2600*	☐	☑	(202) 535-2600, Air Quality Division, Permitting Branch	
12. Was the building built before 1978? (Lead paint may be present). *Issuance of a lead abatement or renovation permit may be required.*	☐	☑	(202) 535-2600, Lead and Healthy Housing Division, Compliance and Enforcement Branch	
13. Does the building contain asbestos? *Requires a current asbestos survey (i.e., survey of all asbestos containing materials) for the building. A permit from the Air Quality Division is required for most asbestos removal projects.*	☐	☑	(202) 535-2600, Air Quality Division, Permitting Branch	
14. Does the project disturb 5,000 square feet or greater of land? *Major Land Disturbance: Submit a stormwater management plan to the Watershed Protection Division for approval.*	☐	☑	(202) 535-2600, Watershed Protection Division	
15. Is the project an interior renovation or addition where (1) the assessed value of the structure(s) is greater than or equal to 50% of the total cost of construction, AND (2) the sum of the structures' footprint and any soil disturbance is 5,000 square feet or greater? *Major Sustainable Improvement: Submit a storm water management plan to the Watershed Protection Division for approval.*	☐	☑	(202) 535-2600, Watershed Protection Division	
16. Is the project (1) a new building, addition and/or interior renovation where the total cost of construction is greater than 100% of the assessed value of the structure(s), AND (2) the property is assigned a zone district other than R1 - R4? *Submit a green area ratio (GAR) plan to the Watershed Protection Division for approval.*	☐	☑	(202) 535-2600, Watershed Protection Division	
17. Will the proposed project or the work to be performed be within a Special Flood Hazard Area (SFHA) or 100-year floodplain area (i.e., Zone A or AE)? *If YES,* *Compliance with DC Floodplain Regulations (DCMR 20, Flood Hazard Rules, and DCMR 12, Flood Provisions in the Construction Code is required.* *If NO,* *Please verify and confirm whether the project site is NOT located in a Special Flood Hazard Area (SFHA).* *http://ddoe.dc.gov/floodplainmap*	☐	☑	(202) 535-2600, Watershed Protection Division	
18. Will the proposed project result in the construction or installation of any equipment that burns fuel such as, but not limited to, stationary generators (any size) and boilers with heat input ratings greater than 5 million BTU/hr? *Note that separate air quality permits are required for most of these units.*	☐	☑	(202) 535-2600, Air Quality Division, Permitting Branch	
19. Will the proposed project result in the construction or installation of any other stationary pollution-emitting equipment? Examples include, but are not limited to, degreasing units, professional printing equipment, plating lines, spray painting operations, and gasoline dispensing systems. *Note that separate air quality permits are required for most of these units.*	☐	☑	(202) 535-2600, Air Quality Division, Permitting Branch	

I hereby certify that I have the authority of the owner of the property to make this application and that the answers to the above questions are complete and correct to the best of my knowledge. False statements may be subject to fines and prosecution, as applicable by statute.

Signature  Name (print) Monling Lee

Address 4615 14th Street, NW, D.C. Date 9/15/2022 Phone 301-310-8772

OFFICE USE ONLY

DOEE APPROVAL BY NAME (Print) _____

CONTACT NUMBER: (202) _____ DATE: _____

COMMENTS AND PERMIT RESTRICTIONS _____

(USE REVERSE IF NECESSARY)

DEPARTMENT OF ENERGY & ENVIRONMENT

Department of Consumer and Regulatory Affairs

GOVERNMENT
OF THE
DISTRICT OF COLUMBIA
Muriel Bowser, Mayor

Business Licensing Division
1100 4th Street S.W.
Washington DC 20024

Date Issued : 05/20/2022
Category : 4105
License# : 410512000317
License Period : 05/01/2022 - 05/31/2024

BASIC BUSINESS LICENSE

Billing Name and Address :

SOMENDRA KAHATAPITIYA
E2cr Inc.

1405-a Parker RoAD
Baltimore MD 21227

Premise/Application's Name and Address :

E2cr Inc.

1405 A PARKER RD -, BALTIMORE, MD 21227

Registered Agent's Name and Address :

Resagent Inc.

1025 Connecticut Avenue N.W., Suite 400
Washington DC 20036

Owner's Name :

Corp. Name : E2cr Inc.

Trade Name :

CofO/HOP# :	SSL : NA	Zone :	Ward :	ANC :	PERM NO. :
Class A		UNITS : 1			

General Service and Repair - Gen Contr/Construction Mngr

--THE LAW REQUIRES THIS LICENSE TO BE POSTED IN A CONSPICUOUS PLACE ON THE PREMISES--

*License Effective from the later of Issued or Start of License-Period Date

Ernest Chrappah

Director :
Ernest Chrappah

Date : 5/23/2022 9:39:56 AM

DEPARTMENT OF ENERGY & ENVIRONMENT

STATE BOARD FOR PROFESSIONAL ENGINEERS

23 07 48046 E2CR, INC. 78 10-22-2019

MESSAGE(S):

STATE OF MARYLAND DLLR
DEPARTMENT OF LABOR, LICENSING AND REGULATION

LICENSE * REGISTRATION * CERTIFICATION * PERMIT

STATE OF MARYLAND

DEPARTMENT OF LABOR, LICENSING AND REGULATION

Lawrence J. Hogan, Jr.
Governor
Boyd K. Rutherford
Lt. Governor
James E. Rzepkowski
Acting Secretary

STATE BOARD FOR PROFESSIONAL ENGINEERS

CERTIFIES THAT:

E2CR, INC.

IS AN AUTHORIZED: **07 - PE FIRM - CORPORATION**

LIC/REG/CERT	EXPIRATION	EFFECTIVE	CONTROL NO
48046	11-30-2021	N/A	5426141

Signature of Bearer

Acting Secretary DLLR

WHERE REQUIRED BY LAW THIS MUST BE CONSPICUOUSLY DISPLAYED IN OFFICE TO WHICH IT APPLIES

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23 07 48046 5,426,141

23 07 48046

STATE BOARD FOR PROFESSIONAL ENGINEERS
500 N. CALVERT STREET
BALTIMORE, MD 21202-3651

E2CR, INC.
1405-A PARKER ROAD

BALTIMORE MD 21227

STATE OF MARYLAND DLLR
DEPARTMENT OF LABOR, LICENSING AND REGULATION

LICENSE * REGISTRATION * CERTIFICATION * PERMIT

STATE OF MARYLAND

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LIC/REG/CERT	EXPIRATION	EFFECTIVE	CONTROL NO
48046	11-30-2021	N/A	5426141

Signature of Bearer

Acting Secretary DLLR

APPENDIX B

Non-Hazardous Waste Manifest

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
NOT REQUIRED	1	866-750-4223	012823-3

5. Generator's Name and Mailing Address
WMATA-Northern Bus Garage
4615 14th Street, NW
Washington DC 20011
Generator's Phone: 571 570-2918

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Ace Environmental Holdings, LLC
U.S. EPA ID Number: MDR000527336

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Ace Environmental Holdings, LLC
4420 East Eager Street
Baltimore MD 21205
Facility's Phone: 410 354-8030
U.S. EPA ID Number: NOT REQUIRED

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non RCRA, Non DOT Regulated Solid Material (Soil Cuttings)	X13	DM	11,050	P	
2.	Non RCRA, Non DOT Regualted Liquid Material (Groundwater)	X4	DM	X165	G	
3.						
4.						

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X RINZO RENTHLEI
Signature: X
Month 2 Day 2 Year 23

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Roy D CARTER
Signature:
Month 2 Day 2 Year 2023

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Mark Sweitzer
Signature:
Month 02 Day 03 Year 23

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

APPENDIX C

Field Forms and Documentation

SOIL OVA SAMPLE DATA

SHEET 1 OF 14

DATE: 10/7/2022 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD: 10/7/22

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
	SB-61-2	48	Hyd. Odor	G	Concrete 8 in / Crushed Stone 4 in / med. dense, light gray silty sand
	SB-61-4	4	None	G	Same: w/gravel
	SB-61-6	0	None	G	med. dense, light brown sand w/ gravel
	SB-61-8	0	None	G	med. dense, light gray sand w/ rock
	SB-61-10	100+	Hyd. Odor + Stain	G	Same: black staining
	SB-67-2	8	None	G	Concrete 8 in / Crushed Stone 4 in / med dense, gray silty-sand
	SB-67-4	28	None	G	Same:
	SB-67-6	8	~~Hyd None~~ Odor	G	dense, red clay
	SB-67-8	2.4	None	G	dense, wet, red clay
	SB-67-10	3	None	G	Same
	SB-67-18	1.4	None	G	med dense, wet, red sand, GW @ 18.5 ft
	SB-67-20	1.3	None	G	med dense, light brown sand
	SB-66-2	1.6	Hyd Odor	G	Concrete 8 in / Crushed Stone 4 in / dense, clay w/ gravel, stained
	SB-66-5	1.7	None	G	dense, dark brown clay w/ rocks
	SB-66-10	1.8	None	G	loose, gravelly sand - GW @ 12.5 ft
	SB-66-15	1.4	None	G	Same
	SB-65-2	0.7	None	G	Concrete 8 in / Crushed Stone 4 in. / Gray gravel + rocks
	SB-65-5	1.2	None	G	dense reddish clay with rocks
	SB-65-10	1.1	None	G	dense Brown clay, wet
	SB-65-15	1.2	None	G	med. dense brown silty sand - GW @ 11.5 ft

PREPARED BY: LH

SOIL OVA SAMPLE DATA

SHEET 2 OF 14

DATE: 10/10/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: Mini RAE ~~PGM~~ PGM 7320 | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-64	SB-64 0-12½ in	—	concrete	core	—
	12½" - 2'	0.1	no		grey/brown silty sand with mica
	2 - 4'	0.1	"		brown silty sand w/ mica
	4 - 6'	1.0	"		brown silty sand (moist)
	6 - 8	0.5	"		gravel / crushed bricks / black FGS w/mica (dry)
	8 - 10	0.4	"		"
	10 - 12	1.1	yes (diesel odor)		black FGS with small gravel (odor - diesel)
	12 - 14	0.7	yes "		↓
	14 - 15	9.2	yes "		(heavy odor)
X			Refusal @ 15		EOB X
				GW not	encountered

SB-64 SAMPLE SB-64SS @ 4'-6' and 14'-15' 2 samples.

PREPARED BY: RK

SOIL OVA SAMPLE DATA

SHEET 3 OF 14

DATE: 10/10/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-62	0-8¼"	←	concrete	core	←
	-2	0.1	no.		Brown FGS w/ gravel
	2-4	0.1	"		Brown/Grey FGS w/ gravel
	4-6	0.5	"	SB-62@5'	Grey FGS
	6-8	0.2	"		Grey silty sand + FGS misc
	8-10	0.1	"		Coarse grey sand
	10-12	0.5	"		Brown/Grey silty sand
	12-14	0.9	Odor	SB-62SS@(14-16')	Brown silt (moist) - Gas odor
	14-16	217.3	Stain@~14½		Brown silt (moist) - Gas odor ▼ GW @~16'
	16-18	wet	Heavy stain +		Groundwater - wet / black w heavy stain + odor
	18-20	wet	Odor ↓		
X	←	←	EOB @	20' - Encountered GW	→

PREPARED BY: RR

SOIL OVA SAMPLE DATA

SHEET 4 OF 14

DATE: 10/10/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-~~63~~	0-8½"	———	concrete core		———
	8½"-2	0.9	No.		light brown silty sand w/ mica
	2-4	0.6			"
	4-6	0.7			"
low recovery	6-8	0.9			Brown/grey FGS
	8-10	0.8			"
	10-12	0.8			Grey FGS with gravel.
Sample	12-14	1920.8	Slight stain & odor		silty sand w/ gravel (slight stain + odor)
	14-16	1630.1	Stain & odor @ ~15' (wet)		grey silty sand (gas odor) - wet
SB-6355 @ 6' + SB-6355 (MW) (14')	16-18	2900.7	yes		free product - heavy odor + stain ▽GW @ ~18'
	18-20	—	wet		
-X	———	———	——— EOB @ 20'		———
					Encountered GW @ ~18'

PREPARED BY: KB

SOIL OVA SAMPLE DATA

SHEET 5 OF 14

DATE: 10/12/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-2355	———	7½"	concrete	———	———
	7½"-2	17.9	no		brown silty sand w/ gravel
	2-4	216.1	odor (gas + sweet smell)		brown silty sand w/ mica (odor)
	4-6	180.3	odor	"	"
	6-8	20.1	slight odor		weathered crushed rocks w/ mica + FGS
	8-9½	380.3	mold + gas odor		weathered rock w/ mica + dense coarse sand
	X	———	EOB @	9½' (Bedrock)	———

Sample SB-2355 (8-9½)

HOLD-23

PREPARED BY: KR

SOIL OVA SAMPLE DATA

SHEET 6 OF 14

DATE: 10/12/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-2055		7"	concrete core		
	7"-2'	0.1	no		dark brown silty sand + gravel
	X	EOB @ ~2' (hit concrete)			X
		Refusal			

PREPARED BY: AR

SOIL OVA SAMPLE DATA

SHEET 7 OF 14

DATE: 10/13/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-0215S	—	7" concrete core	—	—	—
	7" - 2'	9.0	None		brown sandy silt w/ mica + gravel
	2 - 4	25.7	No	SB-0215S (2-4)	coarse sandy silt w/ mica + crushed rocks
	4 - 6	24.5	No		"
	6 - 8	44.7	No		crushed rocks + grey silty sand (moist)
	8 - 10	GW	No		wet GW coarse sand ▽ GW ~8½'
	10 - 12			12	wet coarse sand / weathered rock
		X	EOB @ 12 (Refusal)		X

PREPARED BY: RR

SOIL OVA SAMPLE DATA

SHEET 8 OF 14

DATE: 10/13/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-0225S			7½" concrete core		
	7½"-2	22.5	No		gravel + coarse sand w/mica + weathered rock
	2-4	70.3	No	Sample SB-2255 (2-4)	weathered rock (dense) + mica.
	[illegible]				
		EOB @ 4'		Weathered Rock/Bedrock	

PREPARED BY: RR

SOIL OVA SAMPLE DATA

SHEET 9 OF 14

DATE: 10/14/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-01955	0-2	28.1	Stain		Top soil (organic) / plastic brown silt / solid product (tar)
	2-4	43.5	Stain		Plastic silt / crushed bricks / solid product (tar)
	4-6	84.0	Slight Stain	SB-1955 (4-6)	dark sandy silt / crushed bricks
	6-8	64.5	No		Dark sandy silt moist → wet (@ 5')
(low recovery)	8-10	18.2			moist / wet sandy silt - high plasticity ▽GW@9'
	10-12	/			wet / plastic grey silt / groundwater
	12-14	/			wet clayey silt " / "
	15-17	/			"
		EOB	@ 17'	(Auger Refusal)	

PREPARED BY: KD

SOIL OVA SAMPLE DATA

SHEET 10 OF 14

DATE: 10-24-22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-2355	Using Dedrick D-50 from previous boring				
5-12-50	8-10	99.8	heavy odor		coarse/dense sand + crushed gravel
50/5½	10-12	1029	"		" " "
50/5	12-14	595.7	"	SB-2355 (14-16')	crushed gravel w/mica + dense sand
50/6	14-16	1031	"		" "
50/4	16-18	523.8	"		crushed gravel w/mica + silty sand
50/6	18-20	1880.1	"		" "
25-50/3	20-22	—	no		wet (groundwater) + crushed gravel + sand ▽ GWL 20'
36-50/2	22-24	—	no		" " "
50/3	24-26	—	no		" " "
		—	EOB @ 25'		(Refusal)

PREPARED BY: RR

SOIL OVA SAMPLE DATA

SHEET 1 OF 4

DATE: 10/25/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SD-2255			7½" concrete		
HW/6-1-1	7½"-2'	12.6	no		dbk coarse sand w/ mica (very low recovery)
5-20-38-50/4	2-4	45.2	no		coarse sand w/ mica + crushed rocks/ gravel (moist)
9-15-22-16	4-6	64.8	no		"
12-10-8-8	6-8	(GW)	no		sand + gravel + crushed gravel (wet) GW @ 6'
5-9-14-16	8-10	—	no		sand + crushed gravel w/ mica (dk brown wet → dry)
5-9-13-15	10-12	—	no		" + silty sand (wet)
20-30-40-50/4	12-14	—	no		crushed gravel w/ mica (dry → wet)
16-26-35-42	14-16	—	no		coarse sand + crushed gravel w/ mica wet → moist (wet)
14-50/5	16-18	—	no		"
50/4	18-20	—	no		"
50/5	20-22	—	no		"
50/6	22-24	—	no		"
50/4	24-26	—	no		"
50/4	26-28	—	no		"
		—	EOB	@ 28	
				Install	TMW-022D + TM-0225
					to 28' to 13'

PREPARED BY: RL

SOIL OVA SAMPLE DATA

SHEET 2 OF 4

DATE: 10-26-22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
SB-21S	0-2				
7-2-1-1	12-14	(wet)	no		sandy clay w/ crushed quartz + rocks
5-1-2-1	14-16		no		silty sand (wet) w/ mica
5-2-4-2	16-18		no		"
	18-20				
14-7-7-8	19-21		no		silty sand (wet) w/ mica + gravel
12-29-45/2"	24-26		no		crushed rocks w/ mica + silty sand (dense)
30-34-50/4"	29-31		no		"
30-50/5	34-36		no		"
50/3	39-40				
		EOB @	40' (Refusal)		

PREPARED BY: JR

SOIL OVA SAMPLE DATA

SHEET 13 OF 14

DATE: 11/7/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: MINIRAE3000 592-92-7783 | CALIBRATION DATE/STANDARD:

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE

☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

	SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
	SB-02055	SB-02055				7½" Concrete -
11:10		D 7½"-2ft				Gravel
11:20		2-4'	99.6+	NO	G	Black sand w/ gravel - red clay
11:30		4-6'	13.5	NO	G	Black silty sand w/ gravel
11:40		6'-8'	19.5	NO	G	Gravel w/ grey + black sand
11:50		8'-10'	0.8	NO	G	Grey sand w/ Rica + gravel, black silty sand
12:10		10'-12'	2.2	NO	G	Brown sand w/ gravel, black silty sand
12:35		12-14	2.2	NO	G	Gray w/ mica + gravel black, silty sand
12:45		14-16		NO		GW-15.5 Gray w/ mica, layer of mica, some black silty sand
12:55		16-18		NO		Wet grey clay, sandy-grey
		18-20				Dark brown, silty sand some gravel
		20-22				
		22-24				
		24-26				
		28-28				
		28-30				
		30-32				GW-32 light gray saturated soils
		32-34				
		34-36				
		36-38				
		38-40				
3:00 pm		39'4"				Boring ended 39'4"

Blow Counts: 5,6,10,7 | 7,13,10,5 | 3,10,13,7

PREPARED BY: LH

SOIL OVA SAMPLE DATA

SHEET 14 OF 14

DATE: 11/8/22 + 11.10.22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

☐ FID ■ PID MODEL & SERIAL NO: MiniRae 3000 592-90272 | CALIBRATION DATE/STANDARD: 11/8/22/100 ppm Isobutylene

HEADSPACE CONTAINER: ☐ 16 OZ GLASS ☐ 8 OZ GLASS ☐ 1 JAR ☐ 2 JAR ☐ ZIP-LOC ■ 16 OZ. RECYCLED MAT.

SAMPLE METHOD: ■ HAND AUGER ☐ SOLID STEM ■ SPLIT SPOON ☐ CORER ■ OTHER: DPT

EQUIP DECON: ■ TAP WATER RINSE ☐ DIST/DEION 1 RINSE ☐ ISOPROPANOL ☐ ANALYTE FREE FINAL RINSE ☐ TAP WATER FINAL RINSE
☐ ALCONOX WASH ■ LUMINOX WASH ☐ DIST/DEION 2 RINSE ☐ OTHER SOLVENT ■ DIST/DEION FINAL RINSE ☐ AIR DRY

	SAMPLE LOCATION	SAMPLE NO./ DEPTH (Feet BGS)	PID RESPONSE (ppm)	EVIDENT ODOR OR STAIN	LAB SAMPLE G = Grab C = Comp	LITHOLOGIC DESCRIPTION, GROUNDWATER DEPTH, OTHER REMARKS
11:15	SB-70	0-2	0.1	NO	G	Brown silty sand w/ Black Solids/Large Bricks
11:48	↓	2-4	0.3	NO	G	Wet @ 3 feet, " Found glass bottle
12:50	↓	4-6	1.0	NO	G	Light Brown Clay
1:11	↓	6-8	0.2	NO	G	↓
						Ended boring @ 8ft
2:11	SB-69	0-2	0.4	NO	G	Light brown silty sand, some mica & gravel
11:17						Lot's of roots & gravel
		2-4	51.0	NO	SB-69SS[2-4]	Red hard clay - Low PLASTICITY
	END @ 8'	4-6	31.0	NO		Red hard clay - Low PLASTICITY
		6-8	6.8	NO		Red clay - silty sand (Brown) @ 8 Feet
	—	—	—	—	—	—
	SB-68	0-2		NO		organic soil + silty sand + gravel + roots
		2-4		NO		Brown SANDY SILT + gravel
	Relocate	0-2	0.1	NO		
	offset	2-4	0.3	NO		Red Silty Clay
	8' South	4-6	0.5	NO		Red/yellow/gray plastic clay
	END @ 8'	6-8	0.5	NO	SB-68SS[6-8]	clay + coarse silty sand light brown

ENCOUNTERED 2 Feet OF CONCRETE RUBBLE Starting @ 2.5-3.5 Feet

PREPARED BY: LH + L.Z

General Field Testing and Measurement

Field Instrument Calibration Records

PSI PROJECT NAME: WMATA Northern Bus Station 0444100

INSTRUMENT (MAKE/MODEL#) MINIRAE INSTRUMENT # PGM7320

PARAMETER(S) (check only one):

☐ TEMPERATURE ☐ CONDUCTIVITY ☐ SALINITY ☐ pH ☐ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☒ OTHER PID

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A isobutylene lot # 304-402325717-1 exp. 1/11/26
Standard B
Standard C

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
22/10/10	0922	A	100	110	10%	yes	INIT	RR
22/10/10	1210	A	100	113	13%	yes	CONT	RR
22/10/12	1120	A	100	98.3	8.3%	yes	INIT	RR
22/10/12	1600	A	100	107	7%	yes	CONT	RR
22/10/13	0825	A	100	98.3	1.7%	yes	INIT	RR
22/10/13	1425	A	100	117.8	17.8%	yes	CONT.	RR
22/10/14	0900	A	100	119.3	19.3%	yes	INIT	RR
22/10/14	1205	A	100	108.1	8.1%	yes	CONT.	RR
22/10/24	1000	A	100	99.8	0.2%	yes	INIT	RR
22/10/24	1500	A	100	98.6	1.4%	yes	CONT	RR
22/10/25	1200	A	100	99.6	0.4%	yes	INIT	RR
22/11/10	1000	A	100	96.4	3.6%	yes	INIT	RR
22/11/10	1500	A	100	107.3 → 7.3	3.6%	yes	CONT	RR

General Field Testing and Measurement

Field Instrument Calibration Records

PSI PROJECT NAME: WMATA NBG

PSI PROJECT NO: 0444100

INSTRUMENT (MAKE/MODEL#) HACH 2100 P INSTRUMENT # 29537

PARAMETER(S) (check only one):

- ☐ TEMPERATURE
- ☒ TURBIDITY
- ☐ CONDUCTIVITY
- ☐ RESIDUAL Cl
- ☐ SALINITY
- ☐ DO
- ☐ pH
- ☐ OTHER
- ☐ ORP

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 20 NTU

Standard B 100 NTU

Standard C 800 NTU

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
22/11/2	1028	A	20	20.2	1%	Yes	INIT	RR
	↓	B	100	99.7	0.3%	↓	"	RR
	↓	C	800	811	1.4%		"	RR
	1600	A	20	20.7	3.5%		CONT	RR
	↓	B	100	101	1%		"	RR
↓	↓	C	800	809	1.1%	↓	"	RR
22/11/3	0900	A	20	21.1	5.5%		INIT	RR
↓	↓	B	100	98.7	1.3%		"	RR
	↓	C	800	809	1.1%		"	RR
	1500	A	20	21.3	6.5%		CONT	RR
↓	↓	B	100	99.2	0.8%		"	RR
↓	↓	C	800	803	0.4%	↓	"	RR

General Field Testing and Measurement

Field Instrument Calibration Records

PSI PROJECT NAME: WMATA Northern Bus Station 0444100

INSTRUMENT (MAKE/MODEL#) YSI 556 INSTRUMENT # 14A100104

PARAMETER(S) (check only one):

☐ TEMPERATURE ☒ CONDUCTIVITY ☐ SALINITY ☒ pH ☒ ORP
☐ TURBIDITY ☐ RESIDUAL Cl ☐ DO ☐ OTHER _____

STANDARDS: *[Specify the type(s) of standards used for calibration, the origin of the standards, the standard values, and the date the standards were prepared or purchased]*

Standard A 240.0 mV ORP solution (Lot #2GC778) (exp. Dec-2022)
Standard B pH 4 buffer solution (Lot # 2GC184) exp 07-2024
Standard C 1.413 mS/cm conductivity (Lot # 21F994) exp. 05/23

DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
22/11/2	0900	A	240	245.7	2.3%	Yes	INIT	RR
	0900	B	4	3.98	0.5%	Yes	INIT	RR
	0900	C	1.413	1.409	0.3%	Yes	INIT	RR
	1600	A	240	241.3	0.5%	Yes	CONT	RR
	1600	B	4	3.96	0.5%	Yes	↓	↓
↓	1600	C	1.413	1.410	0.3%	Yes	↓	↓
22/11/11	0900	A	240	240.4	0.1%	Yes	INIT	RR
	↓	B	4	3.97	0.5%	Yes	↓	RR
	↓	C	1.413	1.419	0.4%	Yes	↓	RR

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC
10521 Research Drive
Suite 102
Knoxville, TN 37932
Toll-free: (877) 355-7907

Pine Environmental Services, Inc.

Instrument ID 29537
Description HACH 2100Q Turbidimeter
Calibrated 10/31/2022 9:35:17AM

Manufacturer HACH
Model Number 2100Q
Serial Number/ Lot Number 14080C034448
Location Tennessee
Department

State Certified
Status Pass
Temp °C 21
Humidity % 22

Calibration Specifications

Group # 1
Group Name Turbidity
Stated Accy Pct of Reading

Range Acc % 0.0000
Reading Acc % 5.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	End As	Lft As	Dev%	Pass/Fail
10.00 / 10.00	NTU	10.00	NTU	9.86	10.00	0.00%	Pass
20.00 / 20.00	NTU	20.00	NTU	20.20	20.00	0.00%	Pass
100.00 / 100.00	NTU	100.00	NTU	99.90	100.00	0.00%	Pass
800.00 / 800.00	NTU	800.00	NTU	799.00	800.00	0.00%	Pass

Test Instruments Used During the Calibration

(As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
TN -800 NTU HACH	TN 800 NTU HACH	HACH	800 NTU	A2109		7/21/2023
TN- 100 NTU HACH	TN 100 NTU HACH	HACH	100 NTU	A2112		7/21/2023
TN- 10NTU HACH	TN 10 NTU HACH	HACH	10 NTU	A2095		7/23/2023
TN- 20 NTU HACH	TN 20 NTU HACH	HACH	20 NTU	A2109		7/21/2023

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Daniel Poston

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC

2225 Tomlynn Street
Richmond, Va. 23230
Toll-free: (866) 801-PINE (7463)

Pine Environmental Services, Inc.

Instrument ID R8527
Description YSI 556
Calibrated 10/31/2022 10:38:19AM

Manufacturer YSI
Model Number 556
Serial Number/ Lot Number 06L1239AW
Location Virginia
Department

State Certified
Status Pass
Temp °C 19.8
Humidity % 55.3

Calibration Specifications

Group # 1
Group Name PH
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.00

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
7.00 / 7.00	PH	7.00	PH	7.11	7.00	0.00%	Pass
4.00 / 4.00	PH	4.00	PH	3.97	4.00	0.00%	Pass
10.00 / 10.00	PH	10.00	PH	10.05	10.00	0.00%	Pass

Group # 2
Group Name Conductivity
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.000

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
1.413 / 1.413	ms/cm	1.413	ms/cm	1.513	1.413	0.00%	Pass

Group # 3
Group Name Redox (ORP)
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.0

Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
240.0 / 240.0	mv	240.0	mv	237.9	240.0	0.00%	Pass

Group # 4
Group Name Disolved Oxygen Span
Stated Accy Pct of Reading
Range Acc % 0.0000
Reading Acc % 3.0000
Plus/Minus 0.0

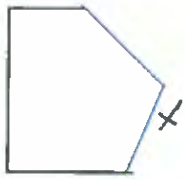
Nom In Val / In Val	In Type	Out Val	Out Type	Fnd As	Lft As	Dev%	Pass/Fail
100.0 / 100.0	%	100.0	%	114.2	100.0	0.00%	Pass

MONITORING WELL CONSTRUCTION DATA

WELL/BORING NO: TMW-19 @ SB-
PERMIT NO: SB22004000

DATE: 10/14/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

WELL SITE LOCATION PLAN:



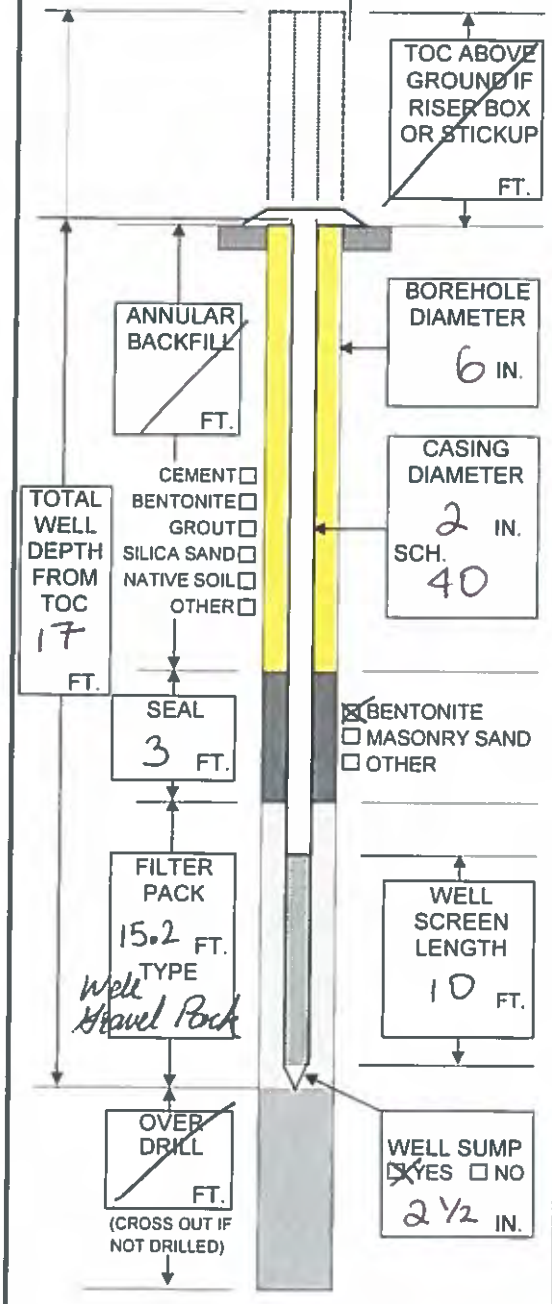
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: E2CR

DRILL CREW: Manoj + Keith

WELL TYPE: ■ SHALLOW ■ SINGLE CASED ■ MONITORING
☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
■ TEMPORARY ☐ DEEP ☐ OTHER ☐ OTHER

WELL SCHEMATIC



INSTALLATION DATA

DECON ☐ STEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER

CASING TYPE: ■ PVC ☒ STAINLESS ☐ TEFLON ☐ OTHER
JOINTS: ■ THREADED ☐ WELDED ☐ COUPLED ☒ SCREWED ☐ OTHER
PIT CASING: ☐ YES ☐ NO ☐ DESCRIBE

WELL SCREEN: ■ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
DIAMETER: ■ 2" ☐ 4" ☐ 6" ☐ OTHER IN
SLOT: ☐ 0.010 ☒ 0.020 ☐ OTHER

DRILLING METHOD: ☐ SOLID STEM ■ HOLLOW STEM ☐ MUD ROTARY ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER ☐ OTHER
BIT SIZE: ☐ 2" ☐ 4" ■ 6" ☐ 8" ☐ 12" ☐ OTHER IN
DRILLING MUD: ■ NONE ☐ WATER ☐ BENTONITE ☐ OTHER
CENTRALIZER: ☐ YES ■ NO

COMPLETION: ☐ FLUSH MOUNT ☐ STICKUP ☐ RISER BOX
LOCK TYPE: ☐ DOLPHIN ☐ MASTER KEY NO. ☒ OTHER
PAD: ☐ 2'X2' ☐ 4'X4' ☒ OTHER none

CUTTINGS: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ OTHER

DEVELOPMENT METHOD: ☐ NONE ☐ BAILING ■ PUMPING ☐ AIR LIFT ☐ SURGE & BLOCK ☐ OTHER
TIME: ☐ 10 MIN ☐ 20 MIN ☐ OTHER MIN
AMOUNT: ☐ 5 GAL ☐ 10 GAL ☐ OTHER GAL
WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
EVIDENT ODOR: ☐ YES ☐ NO TYPE

DEVELOPMENT WATER: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ TREATED ☐ POTW ☐ OTHER

WATER LEVEL: INITIAL 9 1/2 FT ☐ BTOC ☒ BLS
DATE: 6.02 11/2/22 FT BELOW TOC
DATE: FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

☐ Well abandoned subsequent to sample collection

PREPARED BY:

MONITORING WELL CONSTRUCTION DATA

WELL/BORING NO: TMW-020S

PERMIT NO:

DATE:	PROJECT NAME: WMATA Northern Bus Station	PROJECT NO: 0444100

WELL SITE LOCATION PLAN:

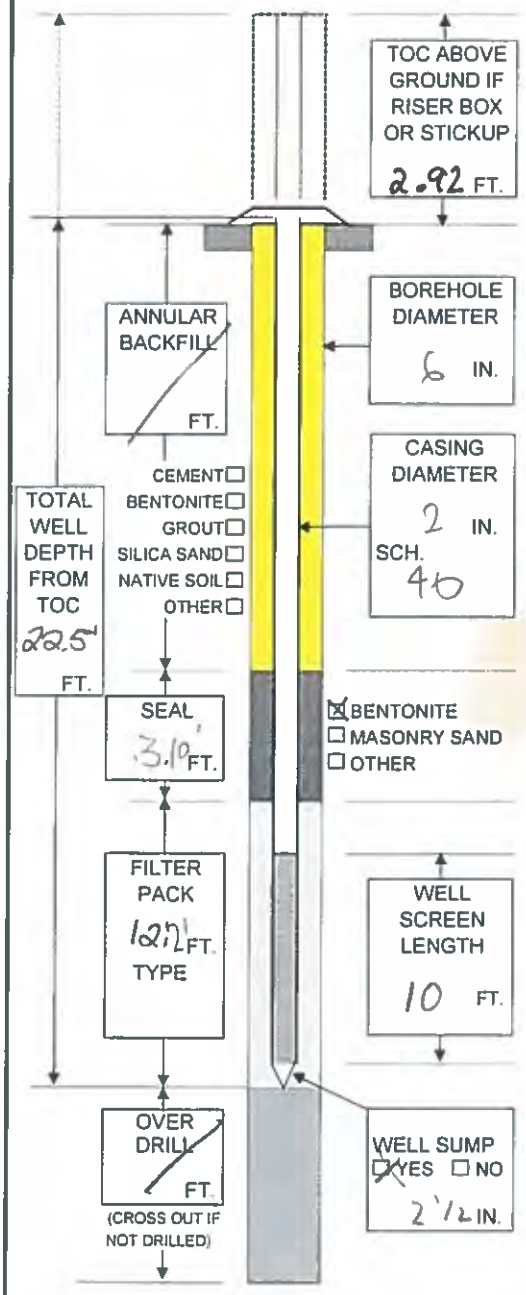
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: E2CR

DRILL CREW: Joey & Richard

WELL TYPE: ☒ SHALLOW ☒ SINGLE CASED ☐ MONITORING
☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
☒ TEMPORARY ☐ DEEP ☐ OTHER ☐ OTHER

WELL SCHEMATIC



10' 2"
7" 10'

INSTALLATION DATA

DECON. ☒ STEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER

CASING TYPE: ☒ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
JOINTS: ☒ THREADED ☐ WELDED ☐ COUPLED ☐ SCREWED ☐ OTHER

PIT CASING: ☐ YES ☐ NO ☐ DESCRIBE

WELL SCREEN: ☒ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER ____ IN
SLOT: ☐ 0.010 ☒ 0.020 ☐ OTHER ____ IN

DRILLING METHOD: ☒ SOLID STEM ☐ HOLLOW STEM ☐ MUD ROTARY ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER ☐ OTHER

BIT SIZE: ☐ 2" ☐ 4" ☒ 6" ☐ 8" ☐ 12" ☐ OTHER ____ IN

DRILLING MUD: ☒ NONE ☐ WATER ☐ BENTONITE ☐ OTHER

CENTRALIZER: ☐ YES ☒ NO

COMPLETION: ☐ FLUSH MOUNT ☒ STICKUP ☐ RISER BOX
LOCK TYPE: ☐ DOLPHIN ☐ MASTER KEY NO. ☐ OTHER

PAD: ☐ 2'X2' ☐ 4'X4' ☐ OTHER

CUTTINGS: ☒ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ OTHER

DEVELOPMENT METHOD: ☐ NONE ☐ BAILING ☒ PUMPING ☐ AIR LIFT ☐ SURGE & BLOCK ☐ OTHER
TIME: ☐ 10 MIN ☐ 20 MIN ☐ OTHER ____ MIN
AMOUNT: ☐ 5 GAL ☐ 10 GAL ☐ OTHER ____ GAL
WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
EVIDENT ODOR: ☐ YES ☐ NO TYPE

DEVELOPMENT WATER: ☒ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ TREATED ☐ POTW ☐ OTHER

WATER LEVEL: INITIAL 15 FT ☐ BTOC ☒ BLS

DATE: 11/4/22 14.7 FT BELOW TOC

DATE: ____ ____ FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

☐ Well removed from site upon completion of sampling (temp wells only)

PREPARED BY:

MONITORING WELL CONSTRUCTION DATA

WELL/BORING NO: MW-020 SS Deep

PERMIT NO:

DATE: 11/7/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

WELL SITE LOCATION PLAN:



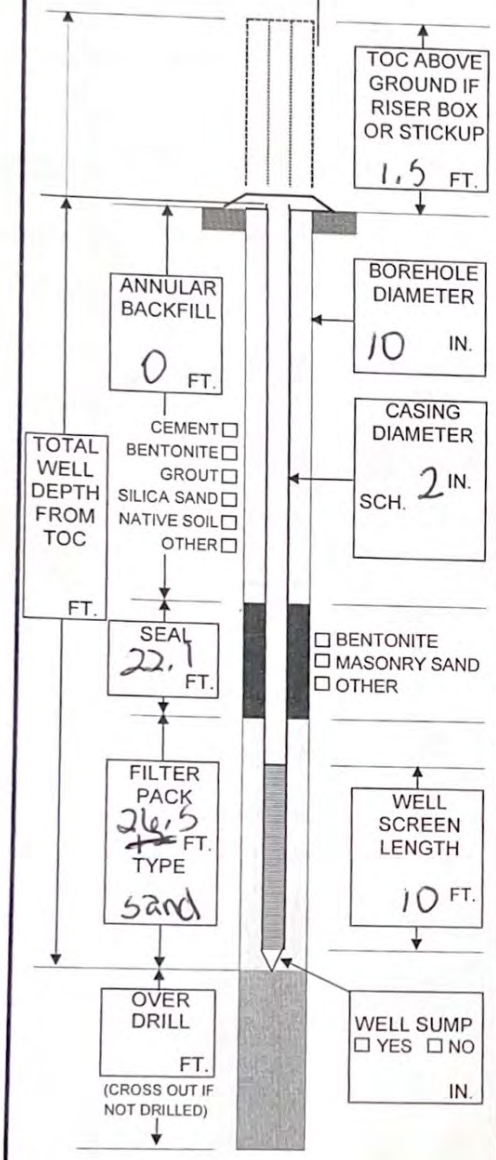
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: E2CR

DRILL CREW: Richard Lord Joey Chalk

WELL TYPE: ■ SHALLOW ■ SINGLE CASED ■ MONITORING
☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
■ TEMPORARY ☐ DEEP ☐ OTHER ☐ OTHER

WELL SCHEMATIC



INSTALLATION DATA

☐ DECON. ☐ STEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER

CASING TYPE: ■ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
JOINTS: ■ THREADED ☐ WELDED ☐ COUPLED ☐ SCREWED ☐ OTHER
PIT CASING: ☐ YES ☐ NO ☐ DESCRIBE

WELL SCREEN: ■ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
DIAMETER: ■ 2" ☐ 4" ☐ 6" ☐ OTHER ____ IN
SLOT: ☐ 0.010 ☐ 0.020 ☐ OTHER

DRILLING METHOD: ☐ SOLID STEM ■ HOLLOW STEM ☐ MUD ROTARY ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER ☐ OTHER
BIT SIZE: ☐ 2" ☐ 4" ■ 6" ☐ 8" ☐ 12" ☐ OTHER ____ IN
DRILLING MUD: ■ NONE ☐ WATER ☐ BENTONITE ☐ OTHER
CENTRALIZER: ☐ YES ■ NO

COMPLETION: ☐ FLUSH MOUNT ☒ STICKUP ☐ RISER BOX
LOCK TYPE: ☐ DOLPHIN ☐ MASTER KEY NO. ☐ OTHER
PAD: ☐ 2'X2' ☐ 4'X4' ☐ OTHER

CUTTINGS: ■ DRUMMED NUMBER OF DRUMS 1+ ☐ SPREAD ☐ OTHER

DEVELOPMENT METHOD: ☐ NONE ☐ BAILING ■ PUMPING ☐ AIR LIFT ☐ SURGE & BLOCK ☐ OTHER
TIME: ☐ 10 MIN ☐ 20 MIN ☐ OTHER ____ MIN
AMOUNT: ☐ 5 GAL ☐ 10 GAL ☐ OTHER ____ GAL
WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
EVIDENT ODOR: ☐ YES ☐ NO TYPE

DEVELOPMENT WATER: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ TREATED ☐ POTW ☐ OTHER

WATER LEVEL: INITIAL 32 FT ☐ BTOC ☐ BLS

DATE: _____ FT BELOW TOC

DATE: _____ FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

☐ Well abandoned subsequent to sample collection

PREPARED BY: Linda Hollingsworth

MONITORING WELL CONSTRUCTION DATA

WELL/BORING NO: TMW-21 S

PERMIT NO: SB2200400

DATE: 10/13/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

WELL SITE LOCATION PLAN:



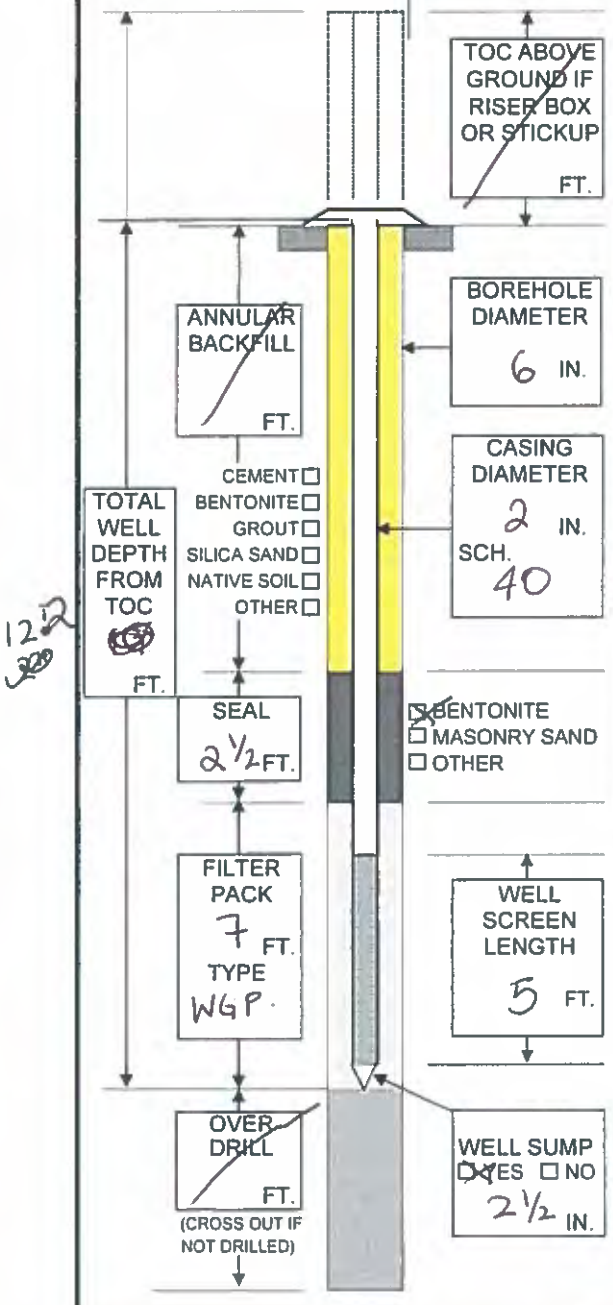
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: E2CR

DRILL CREW: Keith + Manoy

WELL TYPE: ■ SHALLOW ■ SINGLE CASED ■ MONITORING
☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
■ TEMPORARY ☐ DEEP ☐ OTHER ☐ OTHER

WELL SCHEMATIC



INSTALLATION DATA

☒ DECON. ☐ STEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER

CASING TYPE: ■ PVC ☒ STAINLESS ☐ TEFLON ☐ OTHER
JOINTS: ■ THREADED ☐ WELDED ☐ COUPLED ☒ SCREWED ☐ OTHER
PIT CASING: ☐ YES ☐ NO ☐ DESCRIBE

WELL SCREEN: ■ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
DIAMETER: ■ 2" ☐ 4" ☐ 6" ☐ OTHER IN
SLOT: ☐ 0.010 ☒ 0.020 ☐ OTHER

DRILLING METHOD: ☐ SOLID STEM ■ HOLLOW STEM ☐ MUD ROTARY ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER ☐ OTHER
BIT SIZE: ☐ 2" ☐ 4" ■ 6" ☐ 8" ☐ 12" ☐ OTHER IN
DRILLING MUD: ■ NONE ☐ WATER ☐ BENTONITE ☐ OTHER
CENTRALIZER: ☐ YES ■ NO

COMPLETION: ☐ FLUSH MOUNT ☐ STICKUP ☐ RISER BOX
LOCK TYPE: ☐ DOLPHIN ☐ MASTER KEY NO. ☐ OTHER
PAD: ☐ 2'X2' ☐ 4'X4' ☒ OTHER none

CUTTINGS: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ OTHER

DEVELOPMENT METHOD: ☐ NONE ☐ BAILING ■ PUMPING ☐ AIR LIFT ☐ SURGE & BLOCK ☐ OTHER
TIME: ☐ 10 MIN ☐ 20 MIN ☐ OTHER MIN
AMOUNT: ☐ 5 GAL ☐ 10 GAL ☐ OTHER GAL
WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
EVIDENT ODOR: ☐ YES ☐ NO TYPE

DEVELOPMENT WATER: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ TREATED ☐ POTW ☐ OTHER

WATER LEVEL: INITIAL 7'2" FT ☐ BTOC ☒ BLS
DATE: 10/27/22 7.2 FT BELOW TOC
DATE: 11/2/22 7.2 FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

☐ Well abandoned subsequent to sample collection

PREPARED BY:

MONITORING WELL CONSTRUCTION DATA

WELL/BORING NO: I MW-21D

PERMIT NO:

DATE: 10/27/21 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

WELL SITE LOCATION PLAN:



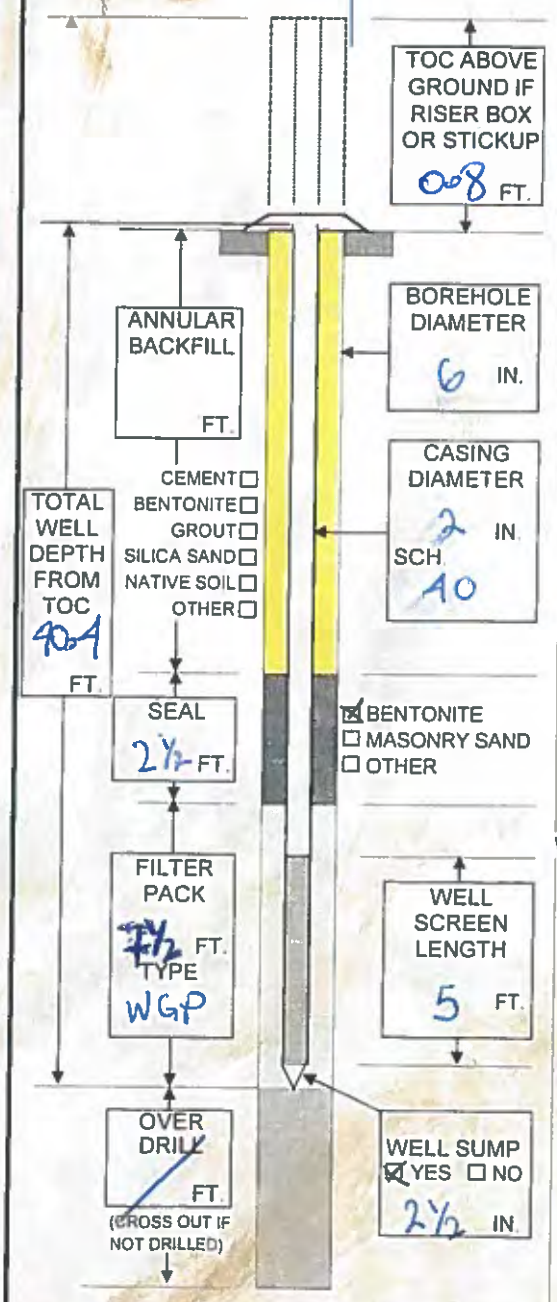
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: E2CR

DRILL CREW: Manoj & Bruce

WELL TYPE: ■ SHALLOW ■ SINGLE CASED ■ MONITORING
☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
■ TEMPORARY ☐ DEEP ☐ OTHER ☐ OTHER

WELL SCHEMATIC



INSTALLATION DATA

DECON: ☐ STEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER

CASING TYPE: ■ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
JOINTS: ■ THREADED ☐ WELDED ☐ COUPLED ☐ SCREWED ☐ OTHER
PIT CASING: ☐ YES ☐ NO ☐ DESCRIBE

WELL SCREEN: ■ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
DIAMETER: ■ 2" ☐ 4" ☐ 6" ☐ OTHER IN
SLOT: ☐ 0.010 ☐ 0.020 ☐ OTHER

DRILLING METHOD: ☐ SOLID STEM ■ HOLLOW STEM ☐ MUD ROTARY ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER ☐ OTHER
BIT SIZE: ☐ 2" ☐ 4" ■ 6" ☐ 8" ☐ 12" ☐ OTHER IN
DRILLING MUD: ■ NONE ☐ WATER ☐ BENTONITE ☐ OTHER
CENTRALIZER: ☐ YES ■ NO

COMPLETION: ☐ FLUSH MOUNT ☐ STICKUP ☐ RISER BOX
LOCK TYPE: ☐ DOLPHIN ☐ MASTER KEY NO. ☐ OTHER
PAD: ☐ 2'X2' ☐ 4'X4' ☐ OTHER

CUTTINGS: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ OTHER

DEVELOPMENT METHOD: ☐ NONE ☐ BAILING ■ PUMPING ☐ AIR LIFT ☐ SURGE & BLOCK ☐ OTHER
TIME: ☐ 10 MIN ☐ 20 MIN ☐ OTHER MIN
AMOUNT: ☐ 5 GAL ☐ 10 GAL ☐ OTHER GAL
WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
EVIDENT ODOR: ☐ YES ☐ NO TYPE

DEVELOPMENT WATER: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ TREATED ☐ POTW ☐ OTHER

WATER LEVEL: INITIAL 7.2 FT ☒ BTOC ☐ BLS
DATE: 11/2/22 9.66 FT BELOW TOC
DATE: FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

☐ Well abandoned subsequent to sample collection

PREPARED BY:

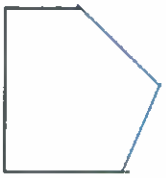
MONITORING WELL CONSTRUCTION DATA

WELL/BORING NO: TMW-[redacted]28

PERMIT NO: SB22004[illegible]

DATE: 10/26/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

WELL SITE LOCATION PLAN:



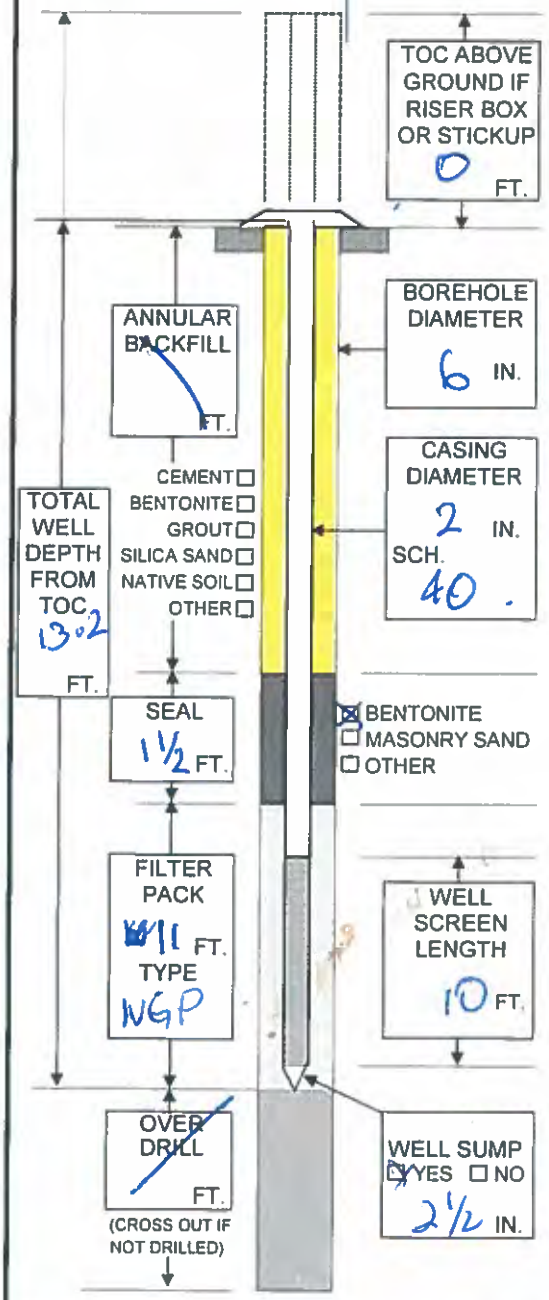
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: E2CR

DRILL CREW: Manoj

WELL TYPE: ■ SHALLOW ■ SINGLE CASED ■ MONITORING
☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
■ TEMPORARY ☐ DEEP ☐ OTHER ☐ OTHER

WELL SCHEMATIC



INSTALLATION DATA

DECON. ☐ STEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER

CASING TYPE: ■ PVC ☒ STAINLESS ☐ TEFLON ☐ OTHER
JOINTS: ■ THREADED ☐ WELDED ☐ COUPLED ☐ SCREWED ☐ OTHER
PIT CASING: ☐ YES ☐ NO ☐ DESCRIBE

WELL SCREEN: ■ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
DIAMETER: ■ 2" ☐ 4" ☐ 6" ☐ OTHER IN
SLOT: ☐ 0.010 ☐ 0.020 ☐ OTHER

DRILLING METHOD: ☐ SOLID STEM ■ HOLLOW STEM ☐ MUD ROTARY ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER ☐ OTHER
BIT SIZE: ☐ 2" ☐ 4" ■ 6" ☐ 8" ☐ 12" ☐ OTHER IN
DRILLING MUD: ■ NONE ☐ WATER ☐ BENTONITE ☐ OTHER
CENTRALIZER: ☐ YES ■ NO

COMPLETION: ☐ FLUSH MOUNT ☒ STICKUP ☐ RISER BOX
LOCK TYPE: ☐ DOLPHIN ☐ MASTER KEY NO. ☐ OTHER
PAD: ☐ 2'X2' ☐ 4'X4' ☒ OTHER

CUTTINGS: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ OTHER

DEVELOPMENT METHOD: ☐ NONE ☐ BAILING ■ PUMPING ☐ AIR LIFT ☐ SURGE & BLOCK ☐ OTHER
TIME: ☐ 10 MIN ☐ 20 MIN ☐ OTHER MIN
AMOUNT: ☐ 5 GAL ☐ 10 GAL ☐ OTHER GAL
WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
EVIDENT ODOR: ☐ YES ☐ NO TYPE

DEVELOPMENT WATER: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ TREATED ☐ POTW ☐ OTHER

WATER LEVEL: INITIAL 6 FT ☐ BTOC ☒ BLS
DATE: 10/27/22 6.2' FT BELOW TOC
DATE: 11/2/22 6.15 FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

☐ Well abandoned subsequent to sample collection

PREPARED BY:

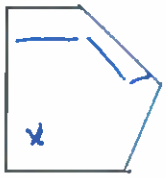
MONITORING WELL CONSTRUCTION DATA

WELL/BORING NO: T MW-0221

PERMIT NO: SB2200400

DATE: 10/26/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

WELL SITE LOCATION PLAN:



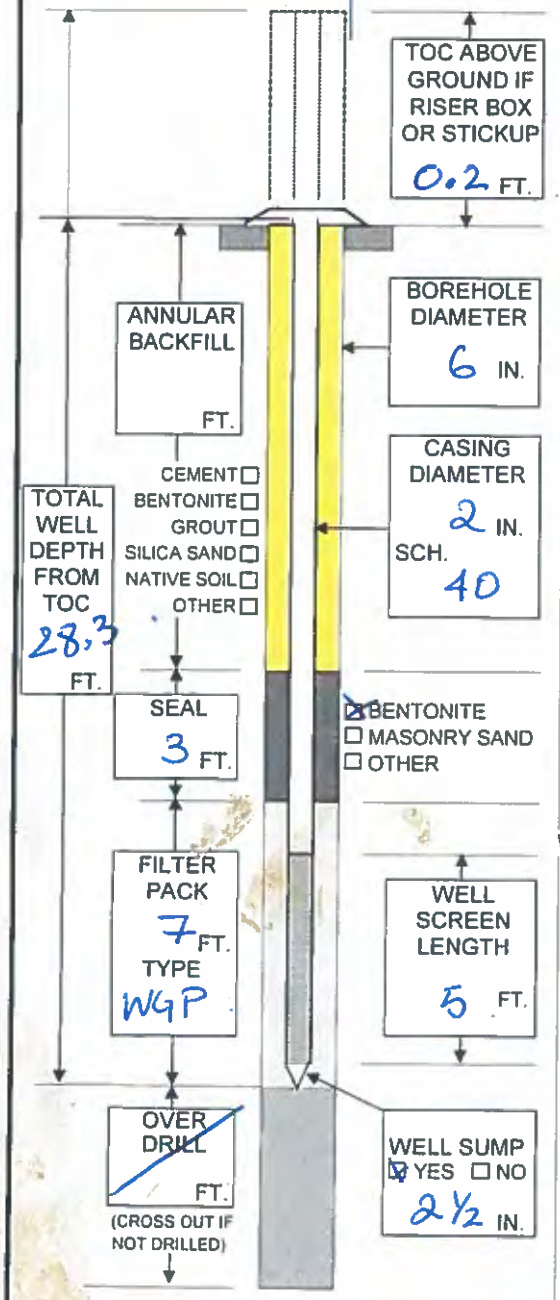
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: E2CR

DRILL CREW: Manoj, Bruce & Keith

WELL TYPE: ☒ SHALLOW ☒ SINGLE CASED ☒ MONITORING
☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
☒ TEMPORARY ☒ DEEP ☐ OTHER ☐ OTHER

WELL SCHEMATIC



INSTALLATION DATA

DECON. ☒ STEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER

CASING TYPE: ☒ PVC ☒ STAINLESS ☐ TEFLON ☐ OTHER
JOINTS: ☒ THREADED ☐ WELDED ☐ COUPLED ☐ SCREWED ☐ OTHER
PIT CASING: ☐ YES ☐ NO ☐ DESCRIBE

WELL SCREEN: ☒ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
DIAMETER: ☒ 2" ☐ 4" ☐ 6" ☐ OTHER ____ IN
SLOT: ☐ 0.010 ☒ 0.020 ☐ OTHER

DRILLING METHOD: ☐ SOLID STEM ☒ HOLLOW STEM ☐ MUD ROTARY ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER ☐ OTHER
BIT SIZE: ☐ 2" ☐ 4" ☒ 6" ☐ 8" ☐ 12" ☐ OTHER ____ IN
DRILLING MUD: ☒ NONE ☐ WATER ☐ BENTONITE ☐ OTHER
CENTRALIZER: ☐ YES ☒ NO

COMPLETION: ☐ FLUSH MOUNT ☒ STICKUP ☐ RISER BOX
LOCK TYPE: ☐ DOLPHIN ☐ MASTER KEY NO. ☐ OTHER
PAD: ☐ 2'X2' ☐ 4'X4' ☐ OTHER

CUTTINGS: ☒ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ OTHER

DEVELOPMENT METHOD: ☐ NONE ☐ BAILING ☒ PUMPING ☐ AIR LIFT ☐ SURGE & BLOCK ☐ OTHER
TIME: ☐ 10 MIN ☐ 20 MIN ☐ OTHER ____ MIN
AMOUNT: ☐ 5 GAL ☐ 10 GAL ☐ OTHER ____ GAL
WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
EVIDENT ODOR: ☐ YES ☐ NO TYPE

DEVELOPMENT WATER: ☒ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ TREATED ☐ POTW ☐ OTHER

WATER LEVEL: INITIAL 6 FT ☐ BTOC ☒ BLS
DATE: 10/27/22 6.3' FT BELOW TOC
DATE: 10/27/22 6.3 FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

☐ Well abandoned subsequent to sample collection

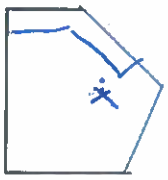
PREPARED BY:

MONITORING WELL CONSTRUCTION DATA

WELL/BORING NO: T MW-023D
PERMIT NO: SB200400

DATE: 10/24/22 | PROJECT NAME: WMATA - Northern Bus Garage | PROJECT NO: 0444100-1

WELL SITE LOCATION PLAN:



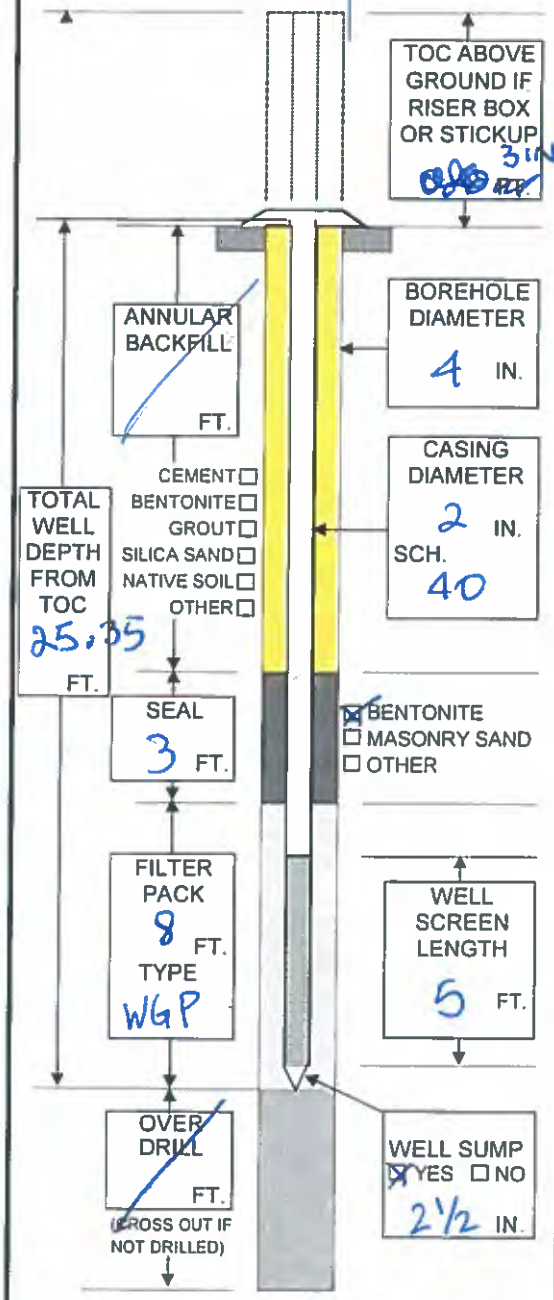
SEC: TWN: RGE: LAT: LONG:

DRILLING CO: E2CR

DRILL CREW: Manoj + Keith

WELL TYPE: ☒ SHALLOW ■ SINGLE CASED ■ MONITORING
☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
■ TEMPORARY ☒ DEEP ☐ OTHER ☐ OTHER

WELL SCHEMATIC



INSTALLATION DATA

DECON: ☒ DECON ☐ STEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER

CASING TYPE: ■ PVC ☒ STAINLESS ☐ TEFLON ☐ OTHER
JOINTS: ■ THREADED ☐ WELDED ☐ COUPLED ☒ SCREWED ☐ OTHER
PIT CASING: ☐ YES ☒ NO ☐ DESCRIBE

WELL SCREEN: ■ PVC ☐ STAINLESS ☐ TEFLON ☐ OTHER
DIAMETER: ■ 2" ☐ 4" ☐ 6" ☐ OTHER IN
SLOT: ☐ 0.010 ☒ 0.020 ☐ OTHER

DRILLING METHOD: ☐ SOLID STEM ■ HOLLOW STEM ☐ MUD ROTARY ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER ☐ OTHER
BIT SIZE: ☐ 2" ☒ 4" ■ 6" ☐ 8" ☐ 12" ☐ OTHER IN
DRILLING MUD: ■ NONE ☐ WATER ☐ BENTONITE ☐ OTHER
CENTRALIZER: ☐ YES ■ NO

COMPLETION: ☐ FLUSH MOUNT ☒ STICKUP ☐ RISER BOX
LOCK TYPE: ☐ DOLPHIN ☐ MASTER KEY NO. ☐ OTHER
PAD: ☐ 2'X2' ☐ 4'X4' ☒ OTHER none

CUTTINGS: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ OTHER

DEVELOPMENT METHOD: ☐ NONE ☐ BAILING ■ PUMPING ☐ AIR LIFT ☐ SURGE & BLOCK ☐ OTHER
TIME: ☐ 10 MIN ☐ 20 MIN ☐ OTHER MIN
AMOUNT: ☐ 5 GAL ☐ 10 GAL ☐ OTHER GAL
WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
EVIDENT ODOR: ☐ YES ☐ NO TYPE

DEVELOPMENT WATER: ■ DRUMMED NUMBER OF DRUMS ☐ SPREAD ☐ TREATED ☐ POTW ☐ OTHER

WATER LEVEL: INITIAL 17.9 FT ☐ BTOC ☒ BLS
DATE: 10/27/22 12' FT BELOW TOC
DATE: 11/2/22 12' FT BELOW TOC

NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS)

☐ Well abandoned subsequent to sample collection

PREPARED BY:

GROUNDWATER SAMPLING LOG

SITE NAME: WMATA - Northern Bus Garage	SITE LOCATION: 4615 14th St NW, Washington D.C.	PROJECT NO.: 0444100-1
WELL NO: TMW-~~0~~195	SAMPLE ID: TMW-195	DATE: 11/2/22

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: feet to	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (17 feet – 6.2 feet) X 0.16 gallons/foot = 1.73 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 1458	PURGING ENDED AT: 1513	TOTAL VOLUME PURGED (gallons): 1.81

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle) mg/L / % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1500	0.18	0.18	0.09	6.2	7.08	19.43	0.905	1.75	26.9	-123.2	slight/no.
1502	0.18	0.27	0.09	6.2	7.07	19.42	0.903	1.56	17.0	-127.3	
1504	0.28	0.55	0.14	6.2	7.07	19.42	0.903	1.56	18.9	-128.3	
1506	0.28	0.83	0.14	6.2	7.07	19.41	0.904	1.55	17.6	-139.6	
1510	0.56	1.39	0.14	6.2	7.06	19.41	0.905	1.57	16.3	-140.3	
1513	0.42	1.81	0.14	6.2	7.06	19.41	0.905	1.66	14.2	-141.5	

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Rinzo Rentaleer	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1515	SAMPLING ENDED AT: 1513
PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type	FILTER SIZE: ___ µm

FIELD DECONTAMINATION: PUMP (O) N TUBING (O) N (replaced) OTHER (specify) Y N DUPLICATE: Y N DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME mL	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
~~TMW-195~~									
TMW-195	2	AG	1000	HCl	2000	7.06	VOC	RFPP	550 mL/
↓	6	CG	40	HNO_3	240	7.06	~~VOA~~ TAH-DRO GRO	↓	min

5 WELL VOLUMES: 8.6
REMARKS:
* Samples placed on ice subsequent to collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry.
4 1 gpm = 3,785.4 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: WMATA - Northern Bus Garage	SITE LOCATION: 4615 14th St NW, Washington D.C.	PROJECT NO: 0444100-1 0444100
WELL NO: TMW-020S	SAMPLE ID: TMW-20S	DATE: 11/11/22

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 22.5 feet to 12.5	STATIC DEPTH TO WATER (feet): 14.7	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (22.5 feet – 14.7 feet) X 0.16 gallons/foot = 1.248 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 18	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 18	PURGING INITIATED AT: 1000	PURGING ENDED AT: 10:18	TOTAL VOLUME PURGED (gallons): 2.34

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle) mg/L / % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1002	0.26	0.26	0.13	14.7	4.98	19.29	0.776	2.15	4.48	143.1	clear
1004	0.26	0.52	0.13	14.7	5.08	19.28	0.767	1.74	10.00	126.7	clear
10:06	0.26	0.78	0.13	14.7	5.11	19.29	0.763	2.01	32.80	123.0	clear
10:08	0.26	1.04	0.13	14.7	5.09	19.31	0.760	3.23	15.00	121.7	clear
10:10	0.26	1.30	0.13	14.7	5.06	19.32	0.759	2.12	13.40	121.5	clear
10:12	0.26	1.56	0.13	14.7	5.06	19.33	0.758	1.82	18.80	121.2	clear
10:14	0.26	1.82	0.13	14.7	5.06	19.33	0.759	1.59	16.50	119.5	clear
10:16	0.26	2.08	0.13	14.7	5.05	19:34	0.759	1.39	17.30	117.6	clear
10:18	0.26	2.34	0.13	14.7	5.05	19.34	0.758	1.36	15.70	119.5	clear

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RINZO RENTHLEI	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1020	SAMPLING ENDED AT: 1030
PUMP OR TUBING DEPTH IN WELL (feet): 18	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	
FIELD DECONTAMINATION: PUMP (Y) N TUBING (Y) N (replaced) OTHER (specify) Y N		DUPLICATE: Y (N) DUP. ID:	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME mL	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
TMW-20S	2	AG	1000	HCl	2000	5.05	VOC	RFPP	500 mL/
↓	6	CG	40	HNO_3	240	↓	TAL-PRO/		min
							CRO/IGRO		

5 WELL VOLUMES: 6.24

REMARKS:
* Samples placed on ice subsequent to collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry
4 1 gpm = 3,785.4 mL/min

Revision Date: February 12, 2009

GROUNDWATER SAMPLING LOG

SITE NAME: WMATA - Northern Bus Garage	SITE LOCATION: 4615 14th St NW, Washington D.C.	PROJECT NO.: 0444100-1
WELL NO: TMW-020D	SAMPLE ID: TMW-20D	DATE: 11-11-22

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 39.9 feet to 29.9	STATIC DEPTH TO WATER (feet): 14.5	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (39.9 feet – 14 feet) X 0.16 gallons/foot = 4.14 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1050	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (mg/L) % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1052	0.44	0.44	0.22	14	5.98	19.35	0.887	1.11	10.7	82.6	clear
10:56	0.72	1.16	0.18	14	5.94	19.27	0.887	0.74	10.5	78.9	clear
11:00	0.72	1.88	0.18	14	6.01	19.27	0.891	0.97	10.3	77.1	clear
11:04	0.72	2.60	0.18	14	6.05	19.34	0.895	1.00	18.7	75.9	clear
11:08	0.72	3.32	0.18	14	6.07	19.42	0.905	0.94	20.3	75.2	clear
11:12	0.72	4.04	0.18	14	6.07	19.40	0.909	0.93	21.6	74.5	clear
11:16	0.72	4.76	0.18	14	6.11	19.39	0.913	0.98	19.7	72.6	clear
12:00	0.72	5.48	0.18	14	6.12	19.39	0.914	0.95	17.4	72.3	clear

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RINZO RENTHLEI	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1202	SAMPLING ENDED AT: 1215
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	OTHER (specify) Y (N)	DUPLICATE: Y (N)	DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME mL	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
TMW-20D	2	AG	1000	HCl	2000	6.12	VOC	RFPP	700 mL/
	6	CG	40	HNO3	240	↓	TPH-DRO/		min
							GRO/ORO		

5 WELL VOLUMES: 20.72
REMARKS: * Samples placed on ice subsequent to collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry
4 1 gpm = 3,785.4 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: WMATA - Northern Bus Garage	SITE LOCATION: 4615 14th St NW, Washington D.C.	PROJECT NO.: 0444100-1
WELL NO: TMW-02S	SAMPLE ID: TMW-2S	DATE: 11/2/22

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 12.2 feet to 2.2	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (12.2 feet − 7.2 feet) X 0.16 gallons/foot = 0.8 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 7.2	PURGING INITIATED AT: 1248	PURGING ENDED AT: 1302	TOTAL VOLUME PURGED (gallons): 1.106

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN mg/L / % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1250	0.158	0.158	0.079	7.2	6.82	21.39	0.942	0.39	91.6	-22.4	clear/no ⊗
1252	0.158	0.316	0.079	7.2	6.77	21.43	0.934	0.34	66.2	-1.2	"
1254	0.158	0.474	0.079	7.2	6.73	21.47	0.930	0.35	34.4	10.1	"
1256	0.158	0.632	0.079	7.2	6.70	21.49	0.932	0.39	26.7	-2.0	"
1258	0.158	0.79	0.079	7.2	6.69	21.50	0.936	0.33	17.9	8.3	"
1300	0.158	0.948	0.079	7.2	6.69	21.50	0.941	0.30	15.9	7.8	"
1302	0.158	1.106	0.079	7.2	6.68	21.51	0.943	0.29	12.6	11.9	"

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RINZOA RENTHAL,	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1305	SAMPLING ENDED AT: 1310
PUMP OR TUBING DEPTH IN WELL (feet): 10.	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	OTHER (specify) Y N	DUPLICATE: Y (N) DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME mL	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
TMW-2S	2	AG	1000	~~HCl~~ HCl	2000	6.68	VOC	RFPP	300 mL/min
↓	6	CG	40	~~HNO3~~ HNO_3	240	6.68	TAH/PAH	RFPP	

5 WELL VOLUMES: 4

REMARKS:
* Samples placed on ice subsequent to collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2) optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry.
4 1 gpm = 3,785.4 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: WMATA - Northern Bus Garage	SITE LOCATION: 4615 14th St NW, Washington D.C.	PROJECT NO.: 0444100-1
WELL NO.: TMW-021D	SAMPLE ID: TMW-21D	DATE: 11/2/22

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 40.4 feet to 35.4	STATIC DEPTH TO WATER (feet): 9.6	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (40.4 feet − 9.6 feet) X 0.16 gallons/foot = 4.93 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1158	PURGING ENDED AT: 1220	TOTAL VOLUME PURGED (gallons): 5.516

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm mS/cm	DISSOLVED OXYGEN (circle) mg/L % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1200	0.502	0.502	0.251	9.6	6.41	20.81	0.800	1.15	9.67	-360	clear/no
1202	0.502	1.004	0.251	9.6	6.31	21.03	0.802	0.75	10.8	-395	
1204	0.502	1.506	0.251	9.6	6.25	21.19	0.802	0.56	11.5	-320	
1206	0.502	2.008	0.251	9.6	6.22	21.21	0.801	0.55	9.9	-288	
1208	0.502	2.506	0.251	9.6	6.21	21.18	0.800	0.56	9.2	-307	
1210	0.502	3.008	0.251	9.6	6.21	21.16	0.800	0.52	8.8	-318	
1214	1.004	4.052	0.251	9.6	6.21	21.00	0.798	0.51	9.2	-307	
1[illegible]	[illegible]		[illegible]								
1[illegible]	[illegible]		[illegible]								
1220	1.104	5.156	0.184	9.6	6.22	21.10	0.797	0.51	8.7	-318	

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RINZOVA RENTHLEI	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1225	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): 15	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	OTHER (specify) Y N	DUPLICATE: Y (N) DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME mL	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
TMW-21D	2	AG	1000	HCl	2000	6.21	TCH-DRO/GRO	RFPP	150 mL/min
↓	6	CG	40	HNO_3	240	6.21	VOC	RFPP	↓

5 WELL VOLUMES: 24.64
REMARKS:
* Samples placed on ice subsequent to collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry
4 1 gpm = 3,785.4 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: WMATA - Northern Bus Garage	SITE LOCATION: 4615 14th St NW, Washington D.C.	PROJECT NO.: 0444100-1
WELL NO: TMW-022S	SAMPLE ID: TMW-022S	DATE: 11/2/22

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 13.2 feet to 3.2	STATIC DEPTH TO WATER (feet): 6.15	PURGE PUMP TYPE OR BAILER: P.P

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (13.2 feet − 6.15 feet) X 0.16 gallons/foot = 1.128 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) NOTE YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 10	PURGING INITIATED AT: 1010	PURGING ENDED AT: 1032	TOTAL VOLUME PURGED (gallons): 0.895

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm or (mS/cm)	DISSOLVED OXYGEN mg/L % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1012	0.1558	0.1558	0.079	6.15	6.59	20.71	0.740	0.68	10.1	-113.7	clear / no
1018	0.212	0.3678	0.033	6.15	6.29	20.53	0.741	0.63	7.9	-67.3	↓
1022	0.212	0.580	0.053	6.15	6.21	20.83	0.723	0.83	6.4	-48.2	
1024	0.106	0.686	0.053	6.15	6.15	20.99	0.723	0.49	2.2	-99.1	
1026	0.106	0.736	0.053	6.15	6.12	21.01	0.722	0.43	2.3	-290.7	
1028	0.106	0.789	0.053	6.15	6.11	21.03	0.722	0.39	1.6	-300.3	
1030	0.106	0.842	0.053	6.15	6.08	21.06	0.721	0.36	0.96	-305.1	
1032	0.106	0.895	0.053	6.15	6.05	21.03	0.719	0.35	0.99	-305.5	↓

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RINZO RENTHLEI	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1033	SAMPLING ENDED AT: 1040
PUMP OR TUBING DEPTH IN WELL (feet): 10	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	OTHER (specify)	Y N

DUPLICATE: Y N DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME (mL)	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
TMW-22S	2	AG	1000	HCl	2000	6.05	TPH-GRO	RFPP	200 mL/min
↓	6	CG	40	HNO_3	240	6.05	VOC/DRO	RFPP	↓

5 WELL VOLUMES: 5.64

REMARKS:
* Samples placed on ice subsequent to collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry.
4 1 gpm = 3,785.4 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: WMATA - Northern Bus Garage	SITE LOCATION: 4615 14th St NW, Washington D.C.	PROJECT NO.: 0444100-1
WELL NO: TMW-022D	SAMPLE ID: TMW-22D	DATE: 11/2/22

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 28.3 feet to 23.3	STATIC DEPTH TO WATER (feet): 6.3	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (28.3 feet – 6.3 feet) x 0.16 gallons/foot = 3.52 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12	PURGING INITIATED AT: 1107	PURGING ENDED AT: 11	TOTAL VOLUME PURGED (gallons): 3.681

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (mg/l) / % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
~~1103~~	~~0.053~~	0.053	~~0.053~~	~~6.3~~							
1109	0.184	0.184	0.092	6.3	6.40	21.16	0.829	1.20	1.31	-420	clear / no
1111	0.184	0.368	0.092	6.3	6.39	21.17	0.830	1.35	1.35	-445	"
1113	0.184	0.552	0.092	6.3	6.38	21.15	0.830	1.29	1.47	-449	"
1115	0.184	0.736	0.092	6.3	6.38	21.13	0.830	1.19	1.50	-476	"
1117	0.184	0.92	0.092	6.3	6.36	21.08	0.830	1.16	1.70	-480	"
1128	2.576	3.681	0.251	6.3	6.36	20.90	0.831	1.29	1.60	-481	"

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RINZO RENTHLEI	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1130	SAMPLING ENDED AT: 1135
PUMP OR TUBING DEPTH IN WELL (feet): 12	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING (Y) N (replaced) OTHER (specify) Y N DUPLICATE: Y N DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME mL	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
TMW-22D	2	AG	1000	HCl	2000	6.36	TPH-GRO/DRO	RFPP	950
↓	6	CG	40	HNO3	240	6.36.	VOC	RFPP	↓

5 WELL VOLUMES: 17.6
REMARKS: * Samples placed on ice subsequent to collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry.
4 1 gpm = 3,785.4 mL/min

GROUNDWATER SAMPLING LOG

SITE NAME: WMATA - Northern Bus Garage	SITE LOCATION: 4615 14th St NW, Washington D.C.	PROJECT NO.: 0444100-1
WELL NO: TMW - 023D	SAMPLE ID: TMW -23D	DATE: 11/2/22

PURGING DATA

WELL DIAMETER (inches): 2"	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 25.3 feet to 20.3	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (25.35 feet – 12 feet) X 0.16 gallons/foot = 0.216 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable) NOTE: YSI 556MPS flow cell volume = 500 mL = 0.13 gallons (1 gallon = 3,785 mL)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24	PURGING INITIATED AT: 1407	PURGING ENDED AT: 1417	TOTAL VOLUME PURGED (gallons): 0.604

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or mS/cm	DISSOLVED OXYGEN (circle) mg/L % saturation	TURBIDITY (NTUs)	ORP (mV)	COLOR/ ODOR (describe)
1409	0.132	0.132	0.066	12	6.8	20.6	2.179	3.86	23.6	-365	clear/no o
1411	0.132	0.264	0.066	12	6.7	20.7	2.207	3.76	25.0	-344	
1413	0.132	0.396	0.066	12	6.68	20.8	2.209	3.87	17.6	-358	
1415	0.104	0.5	0.052	12	6.66	20.8	2.211	3.89	17.7	-370	
1417	0.104	0.604	0.052	12	6.63	20.8	2.211	3.93	19.2	-389	↓

WELL CAPACITY (Gallons Per Foot): 1/2" = 0.010; 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: RINZUA BENTHLEI	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet): 24	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING (Y) N (replaced)	OTHER (specify) Y N	DUPLICATE: Y (N) DUP. ID:

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME mL	PRESERVATIVE USED*	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
TMW-23D	2	AG	1000	HCl	2000	6.63	VOC	RFPP	200 mL/min
↓	6	CG	40	HNO_3	240	6.63	TPH-DRO/GRO	↓	↓

5 WELL VOLUMES: 1.08
REMARKS:
* Samples placed on ice subsequent to collection

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved

NOTES:
1 **The above do not constitute all of the information required by Chapter 62-160, F.A.C.**
2 Stabilization Criteria for range of variation of last three consecutive readings (see FS 2212, section 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2), optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU, optionally ± 5 NTU or ± 10% (whichever is greater)
3 Standard decontamination procedures includes DI water rinse, Liquinox solution wash, DI water rinse, isopropanol, DI water final rinse, & air dry.
4 1 gpm = 3,785.4 mL/min

Revision Date: February 12, 2009

APPENDIX D

Laboratory Analytical Results
And Chain of Custody Documentation
(Soil)

Hampton-Clarke
Analytical & Field Services

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2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
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WWW.HCVLAB.COM

Project: WMATA NBG

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei/Jeff Martineau

Received Date: 10/15/2022

Report Date: 11/14/2022

Deliverables: MDE-R

Lab ID: AD33915

Lab Project No: 2101501

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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Form 1 Sample Results

Inorganic Spreadsheet / QC Summary

Sample Summary

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2101501

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD33915-001	SB-61SS (10')	Soil	10/14/2022	10/15/2022
AD33915-002	SB-61SS (2')	Soil	10/14/2022	10/15/2022
AD33915-003	SB-65SS (10')	Soil	10/14/2022	10/15/2022
AD33915-004	SB-66SS (10')	Soil	10/14/2022	10/15/2022
AD33915-005	SB-67SS (4')	Soil	10/14/2022	10/15/2022
AD33915-006	SB-19SS (4-6)	Soil/Terracore	10/14/2022	10/15/2022

HC Case Narrative

Client: Intertek-PSI **HC Project:** 2101501
Project: WMATA NBG

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in sample AD33915-006 due to possible laboratory contamination.

The Method Blank Spike for batch 105005 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 105005 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batches 103408, 103438 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The Matrix Spike and/or Matrix Spike Duplicate for batch 103408 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD33915-002, AD33982-003(MS) had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 103420 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD33995-001(MSD) had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

There is no surrogate recovery data for samples AD33915-001, -005 due to high sample dilution. Please refer to the applicable Form 2 for the recoveries.

Diesel Range Organics Analysis:

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 103420 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD33995-001(MSD) had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

There is no surrogate recovery data for samples AD33915-001, -005 due to high sample dilution. Please refer to the applicable Form 2 for the recoveries.

Gasoline Range Organics Analysis:

The MS/MSD RPD for batch 105010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls Quality Assurance Officer	Or	Jean Revolus Laboratory Director	11/14/22 Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2101501

Project: WMATA NBG

Lab#: AD33915-001 **Sample ID: SB-61SS (10')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	660	8800	EPA 8015D
Gasoline Range Organics	mg/kg	26	150	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	660	12000	EPA 8015D
2-Methylnaphthalene	mg/kg	0.18	0.19	EPA 8270E
Dibenzofuran	mg/kg	0.048	0.12	EPA 8270E
Phenanthrene	mg/kg	0.18	0.36	EPA 8270E

Lab#: AD33915-002 **Sample ID: SB-61SS (2')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	67	1400	EPA 8015D
Gasoline Range Organics	mg/kg	25	160	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	67	2000	EPA 8015D
2-Methylnaphthalene	mg/kg	0.19	0.28	EPA 8270E
Acenaphthene	mg/kg	0.19	0.19	EPA 8270E
Anthracene	mg/kg	0.19	0.34	EPA 8270E
Benzo[a]anthracene	mg/kg	0.19	1.1	EPA 8270E
Benzo[a]pyrene	mg/kg	0.19	1.1	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.19	1.6	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.19	0.72	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.19	0.44	EPA 8270E
Chrysene	mg/kg	0.19	1.1	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.19	0.19	EPA 8270E
Dibenzofuran	mg/kg	0.048	0.11	EPA 8270E
Fluoranthene	mg/kg	0.19	2.3	EPA 8270E
Fluorene	mg/kg	0.19	0.23	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.19	0.62	EPA 8270E
Naphthalene	mg/kg	0.046	0.11	EPA 8270E
Phenanthrene	mg/kg	0.19	1.3	EPA 8270E
Pyrene	mg/kg	0.19	2.0	EPA 8270E

Lab#: AD33915-003 **Sample ID: SB-65SS (10')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	70	780	EPA 8015D
Gasoline Range Organics	mg/kg	27	49	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	70	1300	EPA 8015D
Anthracene	mg/kg	0.39	0.81	EPA 8270E
Benzo[a]anthracene	mg/kg	0.39	2.5	EPA 8270E
Benzo[a]pyrene	mg/kg	0.39	2.5	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.39	3.3	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.39	1.5	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.39	1.3	EPA 8270E
Chrysene	mg/kg	0.39	2.3	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.39	0.45	EPA 8270E
Dibenzofuran	mg/kg	0.10	0.23	EPA 8270E
Fluoranthene	mg/kg	0.39	4.3	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.39	1.4	EPA 8270E
Phenanthrene	mg/kg	0.39	3.3	EPA 8270E
Pyrene	mg/kg	0.39	4.0	EPA 8270E

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2101501

Project: WMATA NBG

Lab#: AD33915-004 **Sample ID: SB-66SS (10')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	67	320	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	67	610	EPA 8015D
Acenaphthene	mg/kg	0.37	0.50	EPA 8270E
Anthracene	mg/kg	0.37	1.6	EPA 8270E
Benzo[a]anthracene	mg/kg	0.37	4.3	EPA 8270E
Benzo[a]pyrene	mg/kg	0.37	4.1	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.37	5.6	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.37	2.5	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.37	1.4	EPA 8270E
Chrysene	mg/kg	0.37	3.7	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.37	0.69	EPA 8270E
Dibenzofuran	mg/kg	0.097	0.40	EPA 8270E
Fluoranthene	mg/kg	0.37	7.5	EPA 8270E
Fluorene	mg/kg	0.37	0.51	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.37	2.2	EPA 8270E
Naphthalene	mg/kg	0.094	0.14	EPA 8270E
Phenanthrene	mg/kg	0.37	5.0	EPA 8270E
Pyrene	mg/kg	0.37	6.8	EPA 8270E

Lab#: AD33915-005 **Sample ID: SB-67SS (4')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	710	6900	EPA 8015D
Gasoline Range Organics	mg/kg	29	79	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	710	7300	EPA 8015D
1,1'-Biphenyl	mg/kg	0.20	1.2	EPA 8270E
2-Methylnaphthalene	mg/kg	0.20	14	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.20	0.26	EPA 8270E
Fluoranthene	mg/kg	0.20	0.29	EPA 8270E
Naphthalene	mg/kg	0.050	3.4	EPA 8270E
Phenanthrene	mg/kg	0.20	0.33	EPA 8270E
Pyrene	mg/kg	0.20	0.28	EPA 8270E

Lab#: AD33915-006 **Sample ID: SB-19SS (4-6)**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	71	90	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	71	160	EPA 8015D
Methylene chloride	mg/kg	0.0018	0.0034	EPA 8260D

HC Report of Analysis

Client: Intertek-PSI **HC Project #:** 2101501

Project: WMATA NBG

Sample ID: SB-61SS (10') **Collection Date:** 10/14/2022
Lab#: AD33915-001 **Receipt Date:** 10/15/2022
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	10	mg/kg	660	8800

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	93.3	mg/kg	26	150

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	5	mg/kg	0.18	ND
1,2,4,5-Tetrachlorobenzene	5	mg/kg	0.18	ND
1,2-Diphenylhydrazine	5	mg/kg	0.18	ND
1,4-Dioxane	5	mg/kg	0.052	ND
2,3,4,6-Tetrachlorophenol	5	mg/kg	0.18	ND
2,4,5-Trichlorophenol	5	mg/kg	0.18	ND
2,4,6-Trichlorophenol	5	mg/kg	0.18	ND
2,4-Dichlorophenol	5	mg/kg	0.059	ND
2,4-Dimethylphenol	5	mg/kg	0.10	ND
2,4-Dinitrophenol	5	mg/kg	0.92	ND
2,4-Dinitrotoluene	5	mg/kg	0.18	ND
2,6-Dinitrotoluene	5	mg/kg	0.18	ND
2-Chloronaphthalene	5	mg/kg	0.18	ND
2-Chlorophenol	5	mg/kg	0.18	ND
2-Methylnaphthalene	**5**	**mg/kg**	**0.18**	**0.19**
2-Methylphenol	5	mg/kg	0.057	ND
2-Nitroaniline	5	mg/kg	0.18	ND
2-Nitrophenol	5	mg/kg	0.18	ND
3&4-Methylphenol	5	mg/kg	0.060	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.18	ND
3-Nitroaniline	5	mg/kg	0.18	ND
4,6-Dinitro-2-methylphenol	5	mg/kg	0.92	ND
4-Bromophenyl-phenylether	5	mg/kg	0.18	ND
4-Chloro-3-methylphenol	5	mg/kg	0.18	ND
4-Chloroaniline	5	mg/kg	0.062	ND
4-Chlorophenyl-phenylether	5	mg/kg	0.18	ND
4-Nitroaniline	5	mg/kg	0.18	ND
4-Nitrophenol	5	mg/kg	0.18	ND
Acenaphthene	5	mg/kg	0.18	ND
Acenaphthylene	5	mg/kg	0.18	ND
Acetophenone	5	mg/kg	0.18	ND
Anthracene	5	mg/kg	0.18	ND
Atrazine	5	mg/kg	0.18	ND
Benzaldehyde	5	mg/kg	0.18	ND
Benzidine	5	mg/kg	0.53	ND
Benzo[a]anthracene	5	mg/kg	0.18	ND

Sample ID: SB-61SS (10') **Collection Date:** 10/14/2022
Lab#: AD33915-001 **Receipt Date:** 10/15/2022
Matrix: Soil

Benzo[a]pyrene	5	mg/kg	0.18	ND
Benzo[b]fluoranthene	5	mg/kg	0.18	ND
Benzo[g,h,i]perylene	5	mg/kg	0.18	ND
Benzo[k]fluoranthene	5	mg/kg	0.18	ND
Benzyl alcohol	5	mg/kg	0.18	ND
bis(2-Chloroethoxy)methane	5	mg/kg	0.18	ND
bis(2-Chloroethyl)ether	5	mg/kg	0.058	ND
bis(2-Chloroisopropyl)ether	5	mg/kg	0.18	ND
bis(2-Ethylhexyl)phthalate	5	mg/kg	1.7	ND
Butylbenzylphthalate	5	mg/kg	0.18	ND
Caprolactam	5	mg/kg	0.18	ND
Carbazole	5	mg/kg	0.18	ND
Chrysene	5	mg/kg	0.18	ND
Dibenzo[a,h]anthracene	5	mg/kg	0.18	ND
Dibenzofuran	**5**	**mg/kg**	**0.048**	**0.12**
Diethylphthalate	5	mg/kg	3.2	ND
Dimethylphthalate	5	mg/kg	0.18	ND
Di-n-butylphthalate	5	mg/kg	4.4	ND
Di-n-octylphthalate	5	mg/kg	0.18	ND
Fluoranthene	5	mg/kg	0.18	ND
Fluorene	5	mg/kg	0.18	ND
Hexachlorobenzene	5	mg/kg	0.18	ND
Hexachlorobutadiene	5	mg/kg	0.18	ND
Hexachlorocyclopentadiene	5	mg/kg	0.61	ND
Hexachloroethane	5	mg/kg	0.18	ND
Indeno[1,2,3-cd]pyrene	5	mg/kg	0.18	ND
Isophorone	5	mg/kg	0.18	ND
Naphthalene	5	mg/kg	0.046	ND
Nitrobenzene	5	mg/kg	0.18	ND
N-Nitrosodimethylamine	5	mg/kg	0.18	ND
N-Nitroso-di-n-propylamine	5	mg/kg	0.047	ND
N-Nitrosodiphenylamine	5	mg/kg	0.18	ND
Pentachlorophenol	5	mg/kg	0.92	ND
Phenanthrene	**5**	**mg/kg**	**0.18**	**0.36**
Phenol	5	mg/kg	0.18	ND
Pyrene	5	mg/kg	0.18	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**10**	**mg/kg**	**660**	**12000**

Sample ID: SB-61SS (2')
Lab#: AD33915-002
Matrix: Soil

Collection Date: 10/14/2022
Receipt Date: 10/15/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**90**

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	**1**	**mg/kg**	**67**	**1400**

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	**89.6**	**mg/kg**	**25**	**160**

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	5	mg/kg	0.19	ND
1,2,4,5-Tetrachlorobenzene	5	mg/kg	0.19	ND
1,2-Diphenylhydrazine	5	mg/kg	0.19	ND
1,4-Dioxane	5	mg/kg	0.053	ND
2,3,4,6-Tetrachlorophenol	5	mg/kg	0.19	ND
2,4,5-Trichlorophenol	5	mg/kg	0.19	ND
2,4,6-Trichlorophenol	5	mg/kg	0.19	ND
2,4-Dichlorophenol	5	mg/kg	0.060	ND
2,4-Dimethylphenol	5	mg/kg	0.10	ND
2,4-Dinitrophenol	5	mg/kg	0.93	ND
2,4-Dinitrotoluene	5	mg/kg	0.19	ND
2,6-Dinitrotoluene	5	mg/kg	0.19	ND
2-Chloronaphthalene	5	mg/kg	0.19	ND
2-Chlorophenol	5	mg/kg	0.19	ND
2-Methylnaphthalene	**5**	**mg/kg**	**0.19**	**0.28**
2-Methylphenol	5	mg/kg	0.058	ND
2-Nitroaniline	5	mg/kg	0.19	ND
2-Nitrophenol	5	mg/kg	0.19	ND
3&4-Methylphenol	5	mg/kg	0.061	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.19	ND
3-Nitroaniline	5	mg/kg	0.19	ND
4,6-Dinitro-2-methylphenol	5	mg/kg	0.93	ND
4-Bromophenyl-phenylether	5	mg/kg	0.19	ND
4-Chloro-3-methylphenol	5	mg/kg	0.19	ND
4-Chloroaniline	5	mg/kg	0.063	ND
4-Chlorophenyl-phenylether	5	mg/kg	0.19	ND
4-Nitroaniline	5	mg/kg	0.19	ND
4-Nitrophenol	5	mg/kg	0.19	ND
Acenaphthene	**5**	**mg/kg**	**0.19**	**0.19**
Acenaphthylene	5	mg/kg	0.19	ND
Acetophenone	5	mg/kg	0.19	ND
Anthracene	**5**	**mg/kg**	**0.19**	**0.34**
Atrazine	5	mg/kg	0.19	ND
Benzaldehyde	5	mg/kg	0.19	ND
Benzidine	5	mg/kg	0.53	ND
Benzo[a]anthracene	**5**	**mg/kg**	**0.19**	**1.1**
Benzo[a]pyrene	**5**	**mg/kg**	**0.19**	**1.1**
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.19**	**1.6**
Benzo[g,h,i]perylene	**5**	**mg/kg**	**0.19**	**0.72**
Benzo[k]fluoranthene	**5**	**mg/kg**	**0.19**	**0.44**
Benzyl alcohol	5	mg/kg	0.19	ND
bis(2-Chloroethoxy)methane	5	mg/kg	0.19	ND
bis(2-Chloroethyl)ether	5	mg/kg	0.059	ND

Sample ID: SB-61SS (2') **Collection Date:** 10/14/2022
Lab#: AD33915-002 **Receipt Date:** 10/15/2022
Matrix: Soil

bis(2-Chloroisopropyl)ether	5	mg/kg	0.19	ND
bis(2-Ethylhexyl)phthalate	5	mg/kg	1.7	ND
Butylbenzylphthalate	5	mg/kg	0.19	ND
Caprolactam	5	mg/kg	0.19	ND
Carbazole	5	mg/kg	0.19	ND
Chrysene	**5**	**mg/kg**	**0.19**	**1.1**
Dibenzo[a,h]anthracene	**5**	**mg/kg**	**0.19**	**0.19**
Dibenzofuran	**5**	**mg/kg**	**0.048**	**0.11**
Diethylphthalate	5	mg/kg	3.3	ND
Dimethylphthalate	5	mg/kg	0.19	ND
Di-n-butylphthalate	5	mg/kg	4.4	ND
Di-n-octylphthalate	5	mg/kg	0.19	ND
Fluoranthene	**5**	**mg/kg**	**0.19**	**2.3**
Fluorene	**5**	**mg/kg**	**0.19**	**0.23**
Hexachlorobenzene	5	mg/kg	0.19	ND
Hexachlorobutadiene	5	mg/kg	0.19	ND
Hexachlorocyclopentadiene	5	mg/kg	0.62	ND
Hexachloroethane	5	mg/kg	0.19	ND
Indeno[1,2,3-cd]pyrene	**5**	**mg/kg**	**0.19**	**0.62**
Isophorone	5	mg/kg	0.19	ND
Naphthalene	**5**	**mg/kg**	**0.046**	**0.11**
Nitrobenzene	5	mg/kg	0.19	ND
N-Nitrosodimethylamine	5	mg/kg	0.19	ND
N-Nitroso-di-n-propylamine	5	mg/kg	0.048	ND
N-Nitrosodiphenylamine	5	mg/kg	0.19	ND
Pentachlorophenol	5	mg/kg	0.93	ND
Phenanthrene	**5**	**mg/kg**	**0.19**	**1.3**
Phenol	5	mg/kg	0.19	ND
Pyrene	**5**	**mg/kg**	**0.19**	**2.0**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**67**	**2000**

Sample ID: SB-65SS (10')
Lab#: AD33915-003
Matrix: Soil

Collection Date: 10/14/2022
Receipt Date: 10/15/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	70	780

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	92.3	mg/kg	27	49

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	10	mg/kg	0.39	ND
1,2,4,5-Tetrachlorobenzene	10	mg/kg	0.39	ND
1,2-Diphenylhydrazine	10	mg/kg	0.39	ND
1,4-Dioxane	10	mg/kg	0.11	ND
2,3,4,6-Tetrachlorophenol	10	mg/kg	0.39	ND
2,4,5-Trichlorophenol	10	mg/kg	0.39	ND
2,4,6-Trichlorophenol	10	mg/kg	0.39	ND
2,4-Dichlorophenol	10	mg/kg	0.13	ND
2,4-Dimethylphenol	10	mg/kg	0.22	ND
2,4-Dinitrophenol	10	mg/kg	1.9	ND
2,4-Dinitrotoluene	10	mg/kg	0.39	ND
2,6-Dinitrotoluene	10	mg/kg	0.39	ND
2-Chloronaphthalene	10	mg/kg	0.39	ND
2-Chlorophenol	10	mg/kg	0.39	ND
2-Methylnaphthalene	10	mg/kg	0.39	ND
2-Methylphenol	10	mg/kg	0.12	ND
2-Nitroaniline	10	mg/kg	0.39	ND
2-Nitrophenol	10	mg/kg	0.39	ND
3&4-Methylphenol	10	mg/kg	0.13	ND
3,3'-Dichlorobenzidine	10	mg/kg	0.39	ND
3-Nitroaniline	10	mg/kg	0.39	ND
4,6-Dinitro-2-methylphenol	10	mg/kg	1.9	ND
4-Bromophenyl-phenylether	10	mg/kg	0.39	ND
4-Chloro-3-methylphenol	10	mg/kg	0.39	ND
4-Chloroaniline	10	mg/kg	0.13	ND
4-Chlorophenyl-phenylether	10	mg/kg	0.39	ND
4-Nitroaniline	10	mg/kg	0.39	ND
4-Nitrophenol	10	mg/kg	0.39	ND
Acenaphthene	10	mg/kg	0.39	ND
Acenaphthylene	10	mg/kg	0.39	ND
Acetophenone	10	mg/kg	0.39	ND
Anthracene	**10**	**mg/kg**	**0.39**	**0.81**
Atrazine	10	mg/kg	0.39	ND
Benzaldehyde	10	mg/kg	0.39	ND
Benzidine	10	mg/kg	1.1	ND
Benzo[a]anthracene	**10**	**mg/kg**	**0.39**	**2.5**
Benzo[a]pyrene	**10**	**mg/kg**	**0.39**	**2.5**
Benzo[b]fluoranthene	**10**	**mg/kg**	**0.39**	**3.3**
Benzo[g,h,i]perylene	**10**	**mg/kg**	**0.39**	**1.5**
Benzo[k]fluoranthene	**10**	**mg/kg**	**0.39**	**1.3**
Benzyl alcohol	10	mg/kg	0.39	ND
bis(2-Chloroethoxy)methane	10	mg/kg	0.39	ND
bis(2-Chloroethyl)ether	10	mg/kg	0.12	ND

Sample ID: SB-65SS (10') **Collection Date:** 10/14/2022
Lab#: AD33915-003 **Receipt Date:** 10/15/2022
Matrix: Soil

	bis(2-Chloroisopropyl)ether	10	mg/kg	0.39	ND
	bis(2-Ethylhexyl)phthalate	10	mg/kg	3.5	ND
	Butylbenzylphthalate	10	mg/kg	0.39	ND
	Caprolactam	10	mg/kg	0.39	ND
	Carbazole	10	mg/kg	0.39	ND
	Chrysene	**10**	**mg/kg**	**0.39**	**2.3**
	Dibenzo[a,h]anthracene	**10**	**mg/kg**	**0.39**	**0.45**
	Dibenzofuran	**10**	**mg/kg**	**0.10**	**0.23**
	Diethylphthalate	10	mg/kg	6.9	ND
	Dimethylphthalate	10	mg/kg	0.39	ND
	Di-n-butylphthalate	10	mg/kg	9.3	ND
	Di-n-octylphthalate	10	mg/kg	0.39	ND
	Fluoranthene	**10**	**mg/kg**	**0.39**	**4.3**
	Fluorene	10	mg/kg	0.39	ND
	Hexachlorobenzene	10	mg/kg	0.39	ND
	Hexachlorobutadiene	10	mg/kg	0.39	ND
	Hexachlorocyclopentadiene	10	mg/kg	1.3	ND
	Hexachloroethane	10	mg/kg	0.39	ND
	Indeno[1,2,3-cd]pyrene	**10**	**mg/kg**	**0.39**	**1.4**
	Isophorone	10	mg/kg	0.39	ND
	Naphthalene	10	mg/kg	0.097	ND
	Nitrobenzene	10	mg/kg	0.39	ND
	N-Nitrosodimethylamine	10	mg/kg	0.39	ND
	N-Nitroso-di-n-propylamine	10	mg/kg	0.10	ND
	N-Nitrosodiphenylamine	10	mg/kg	0.39	ND
	Pentachlorophenol	10	mg/kg	1.9	ND
	Phenanthrene	**10**	**mg/kg**	**0.39**	**3.3**
	Phenol	10	mg/kg	0.39	ND
	Pyrene	**10**	**mg/kg**	**0.39**	**4.0**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**70**	**1300**

Sample ID: SB-66SS (10')
Lab#: AD33915-004
Matrix: Soil

Collection Date: 10/14/2022
Receipt Date: 10/15/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	67	320

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	91.6	mg/kg	26	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	10	mg/kg	0.37	ND
1,2,4,5-Tetrachlorobenzene	10	mg/kg	0.37	ND
1,2-Diphenylhydrazine	10	mg/kg	0.37	ND
1,4-Dioxane	10	mg/kg	0.11	ND
2,3,4,6-Tetrachlorophenol	10	mg/kg	0.37	ND
2,4,5-Trichlorophenol	10	mg/kg	0.37	ND
2,4,6-Trichlorophenol	10	mg/kg	0.37	ND
2,4-Dichlorophenol	10	mg/kg	0.12	ND
2,4-Dimethylphenol	10	mg/kg	0.21	ND
2,4-Dinitrophenol	10	mg/kg	1.9	ND
2,4-Dinitrotoluene	10	mg/kg	0.37	ND
2,6-Dinitrotoluene	10	mg/kg	0.37	ND
2-Chloronaphthalene	10	mg/kg	0.37	ND
2-Chlorophenol	10	mg/kg	0.37	ND
2-Methylnaphthalene	10	mg/kg	0.37	ND
2-Methylphenol	10	mg/kg	0.12	ND
2-Nitroaniline	10	mg/kg	0.37	ND
2-Nitrophenol	10	mg/kg	0.37	ND
3&4-Methylphenol	10	mg/kg	0.12	ND
3,3'-Dichlorobenzidine	10	mg/kg	0.37	ND
3-Nitroaniline	10	mg/kg	0.37	ND
4,6-Dinitro-2-methylphenol	10	mg/kg	1.9	ND
4-Bromophenyl-phenylether	10	mg/kg	0.37	ND
4-Chloro-3-methylphenol	10	mg/kg	0.37	ND
4-Chloroaniline	10	mg/kg	0.13	ND
4-Chlorophenyl-phenylether	10	mg/kg	0.37	ND
4-Nitroaniline	10	mg/kg	0.37	ND
4-Nitrophenol	10	mg/kg	0.37	ND
Acenaphthene	**10**	**mg/kg**	**0.37**	**0.50**
Acenaphthylene	10	mg/kg	0.37	ND
Acetophenone	10	mg/kg	0.37	ND
Anthracene	**10**	**mg/kg**	**0.37**	**1.6**
Atrazine	10	mg/kg	0.37	ND
Benzaldehyde	10	mg/kg	0.37	ND
Benzidine	10	mg/kg	1.1	ND
Benzo[a]anthracene	**10**	**mg/kg**	**0.37**	**4.3**
Benzo[a]pyrene	**10**	**mg/kg**	**0.37**	**4.1**
Benzo[b]fluoranthene	**10**	**mg/kg**	**0.37**	**5.6**
Benzo[g,h,i]perylene	**10**	**mg/kg**	**0.37**	**2.5**
Benzo[k]fluoranthene	**10**	**mg/kg**	**0.37**	**1.4**
Benzyl alcohol	10	mg/kg	0.37	ND
bis(2-Chloroethoxy)methane	10	mg/kg	0.37	ND
bis(2-Chloroethyl)ether	10	mg/kg	0.12	ND

Sample ID: SB-66SS (10') **Collection Date:** 10/14/2022
Lab#: AD33915-004 **Receipt Date:** 10/15/2022
Matrix: Soil

bis(2-Chloroisopropyl)ether	10	mg/kg	0.37	ND
bis(2-Ethylhexyl)phthalate	10	mg/kg	3.4	ND
Butylbenzylphthalate	10	mg/kg	0.37	ND
Caprolactam	10	mg/kg	0.37	ND
Carbazole	10	mg/kg	0.37	ND
Chrysene	**10**	**mg/kg**	**0.37**	**3.7**
Dibenzo[a,h]anthracene	**10**	**mg/kg**	**0.37**	**0.69**
Dibenzofuran	**10**	**mg/kg**	**0.097**	**0.40**
Diethylphthalate	10	mg/kg	6.6	ND
Dimethylphthalate	10	mg/kg	0.37	ND
Di-n-butylphthalate	10	mg/kg	9.0	ND
Di-n-octylphthalate	10	mg/kg	0.37	ND
Fluoranthene	**10**	**mg/kg**	**0.37**	**7.5**
Fluorene	**10**	**mg/kg**	**0.37**	**0.51**
Hexachlorobenzene	10	mg/kg	0.37	ND
Hexachlorobutadiene	10	mg/kg	0.37	ND
Hexachlorocyclopentadiene	10	mg/kg	1.2	ND
Hexachloroethane	10	mg/kg	0.37	ND
Indeno[1,2,3-cd]pyrene	**10**	**mg/kg**	**0.37**	**2.2**
Isophorone	10	mg/kg	0.37	ND
Naphthalene	**10**	**mg/kg**	**0.094**	**0.14**
Nitrobenzene	10	mg/kg	0.37	ND
N-Nitrosodimethylamine	10	mg/kg	0.37	ND
N-Nitroso-di-n-propylamine	10	mg/kg	0.096	ND
N-Nitrosodiphenylamine	10	mg/kg	0.37	ND
Pentachlorophenol	10	mg/kg	1.9	ND
Phenanthrene	**10**	**mg/kg**	**0.37**	**5.0**
Phenol	10	mg/kg	0.37	ND
Pyrene	**10**	**mg/kg**	**0.37**	**6.8**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**67**	**610**

Sample ID: SB-67SS (4')
Lab#: AD33915-005
Matrix: Soil

Collection Date: 10/14/2022
Receipt Date: 10/15/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		84

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	10	mg/kg	710	6900

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	97.7	mg/kg	29	79

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	**5**	**mg/kg**	**0.20**	**1.2**
1,2,4,5-Tetrachlorobenzene	5	mg/kg	0.20	ND
1,2-Diphenylhydrazine	5	mg/kg	0.20	ND
1,4-Dioxane	5	mg/kg	0.057	ND
2,3,4,6-Tetrachlorophenol	5	mg/kg	0.20	ND
2,4,5-Trichlorophenol	5	mg/kg	0.20	ND
2,4,6-Trichlorophenol	5	mg/kg	0.20	ND
2,4-Dichlorophenol	5	mg/kg	0.064	ND
2,4-Dimethylphenol	5	mg/kg	0.11	ND
2,4-Dinitrophenol	5	mg/kg	0.99	ND
2,4-Dinitrotoluene	5	mg/kg	0.20	ND
2,6-Dinitrotoluene	5	mg/kg	0.20	ND
2-Chloronaphthalene	5	mg/kg	0.20	ND
2-Chlorophenol	5	mg/kg	0.20	ND
2-Methylnaphthalene	**5**	**mg/kg**	**0.20**	**14**
2-Methylphenol	5	mg/kg	0.062	ND
2-Nitroaniline	5	mg/kg	0.20	ND
2-Nitrophenol	5	mg/kg	0.20	ND
3&4-Methylphenol	5	mg/kg	0.066	ND
3,3'-Dichlorobenzidine	5	mg/kg	0.20	ND
3-Nitroaniline	5	mg/kg	0.20	ND
4,6-Dinitro-2-methylphenol	5	mg/kg	0.99	ND
4-Bromophenyl-phenylether	5	mg/kg	0.20	ND
4-Chloro-3-methylphenol	5	mg/kg	0.20	ND
4-Chloroaniline	5	mg/kg	0.068	ND
4-Chlorophenyl-phenylether	5	mg/kg	0.20	ND
4-Nitroaniline	5	mg/kg	0.20	ND
4-Nitrophenol	5	mg/kg	0.20	ND
Acenaphthene	5	mg/kg	0.20	ND
Acenaphthylene	5	mg/kg	0.20	ND
Acetophenone	5	mg/kg	0.20	ND
Anthracene	5	mg/kg	0.20	ND
Atrazine	5	mg/kg	0.20	ND
Benzaldehyde	5	mg/kg	0.20	ND
Benzidine	5	mg/kg	0.57	ND
Benzo[a]anthracene	5	mg/kg	0.20	ND
Benzo[a]pyrene	5	mg/kg	0.20	ND
Benzo[b]fluoranthene	**5**	**mg/kg**	**0.20**	**0.26**
Benzo[g,h,i]perylene	5	mg/kg	0.20	ND
Benzo[k]fluoranthene	5	mg/kg	0.20	ND
Benzyl alcohol	5	mg/kg	0.20	ND
bis(2-Chloroethoxy)methane	5	mg/kg	0.20	ND
bis(2-Chloroethyl)ether	5	mg/kg	0.063	ND

Sample ID: SB-67SS (4') **Collection Date:** 10/14/2022
Lab#: AD33915-005 **Receipt Date:** 10/15/2022
Matrix: Soil

bis(2-Chloroisopropyl)ether	5	mg/kg	0.20	ND
bis(2-Ethylhexyl)phthalate	5	mg/kg	1.8	ND
Butylbenzylphthalate	5	mg/kg	0.20	ND
Caprolactam	5	mg/kg	0.20	ND
Carbazole	5	mg/kg	0.20	ND
Chrysene	5	mg/kg	0.20	ND
Dibenzo[a,h]anthracene	5	mg/kg	0.20	ND
Dibenzofuran	5	mg/kg	0.052	ND
Diethylphthalate	5	mg/kg	3.5	ND
Dimethylphthalate	5	mg/kg	0.20	ND
Di-n-butylphthalate	5	mg/kg	4.8	ND
Di-n-octylphthalate	5	mg/kg	0.20	ND
Fluoranthene	**5**	**mg/kg**	**0.20**	**0.29**
Fluorene	5	mg/kg	0.20	ND
Hexachlorobenzene	5	mg/kg	0.20	ND
Hexachlorobutadiene	5	mg/kg	0.20	ND
Hexachlorocyclopentadiene	5	mg/kg	0.66	ND
Hexachloroethane	5	mg/kg	0.20	ND
Indeno[1,2,3-cd]pyrene	5	mg/kg	0.20	ND
Isophorone	5	mg/kg	0.20	ND
Naphthalene	**5**	**mg/kg**	**0.050**	**3.4**
Nitrobenzene	5	mg/kg	0.20	ND
N-Nitrosodimethylamine	5	mg/kg	0.20	ND
N-Nitroso-di-n-propylamine	5	mg/kg	0.051	ND
N-Nitrosodiphenylamine	5	mg/kg	0.20	ND
Pentachlorophenol	5	mg/kg	0.99	ND
Phenanthrene	**5**	**mg/kg**	**0.20**	**0.33**
Phenol	5	mg/kg	0.20	ND
Pyrene	**5**	**mg/kg**	**0.20**	**0.28**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**10**	**mg/kg**	**710**	**7300**

Sample ID: SB-19SS (4-6)
Lab#: AD33915-006
Matrix: Soil/Terracore

Collection Date: 10/14/2022
Receipt Date: 10/15/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		85

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	71	90

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	83.5	mg/kg	25	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	71	160

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.779	mg/kg	0.0018	ND
1,1,2,2-Tetrachloroethane	0.779	mg/kg	0.0018	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.779	mg/kg	0.0018	ND
1,1,2-Trichloroethane	0.779	mg/kg	0.0018	ND
1,1-Dichloroethane	0.779	mg/kg	0.0018	ND
1,1-Dichloroethene	0.779	mg/kg	0.0018	ND
1,2,3-Trichlorobenzene	0.779	mg/kg	0.0018	ND
1,2,4-Trichlorobenzene	0.779	mg/kg	0.0018	ND
1,2-Dibromo-3-chloropropane	0.779	mg/kg	0.0018	ND
1,2-Dibromoethane	0.779	mg/kg	0.00060	ND
1,2-Dichlorobenzene	0.779	mg/kg	0.0018	ND
1,2-Dichloroethane	0.779	mg/kg	0.0018	ND
1,2-Dichloropropane	0.779	mg/kg	0.0018	ND
1,3-Dichlorobenzene	0.779	mg/kg	0.0018	ND
1,4-Dichlorobenzene	0.779	mg/kg	0.0018	ND
1,4-Dioxane	0.779	mg/kg	0.092	ND
2-Butanone	0.779	mg/kg	0.0018	ND
2-Hexanone	0.779	mg/kg	0.0018	ND
4-Methyl-2-pentanone	0.779	mg/kg	0.0018	ND
Acetone	0.779	mg/kg	0.0092	ND
Benzene	0.779	mg/kg	0.00092	ND
Bromochloromethane	0.779	mg/kg	0.0018	ND
Bromodichloromethane	0.779	mg/kg	0.0018	ND
Bromoform	0.779	mg/kg	0.0018	ND
Bromomethane	0.779	mg/kg	0.0018	ND
Carbon disulfide	0.779	mg/kg	0.0018	ND
Carbon tetrachloride	0.779	mg/kg	0.0018	ND
Chlorobenzene	0.779	mg/kg	0.0018	ND
Chloroethane	0.779	mg/kg	0.0018	ND
Chloroform	0.779	mg/kg	0.0018	ND
Chloromethane	0.779	mg/kg	0.0018	ND
cis-1,2-Dichloroethene	0.779	mg/kg	0.0018	ND
cis-1,3-Dichloropropene	0.779	mg/kg	0.0018	ND
Cyclohexane	0.779	mg/kg	0.0018	ND
Dibromochloromethane	0.779	mg/kg	0.0018	ND
Dichlorodifluoromethane	0.779	mg/kg	0.0018	ND
Ethylbenzene	0.779	mg/kg	0.00092	ND
Isopropylbenzene	0.779	mg/kg	0.00092	ND
m&p-Xylenes	0.779	mg/kg	0.0013	ND

Sample ID: SB-19SS (4-6) **Collection Date:** 10/14/2022
Lab#: AD33915-006 **Receipt Date:** 10/15/2022
Matrix: Soil/Terracore

Methyl Acetate	0.779	mg/kg	0.0018	ND
Methylcyclohexane	0.779	mg/kg	0.0018	ND
Methylene chloride	**0.779**	**mg/kg**	**0.0018**	**0.0034**
Methyl-t-butyl ether	0.779	mg/kg	0.00092	ND
o-Xylene	0.779	mg/kg	0.00092	ND
Styrene	0.779	mg/kg	0.0018	ND
Tetrachloroethene	0.779	mg/kg	0.0018	ND
Toluene	0.779	mg/kg	0.00092	ND
trans-1,2-Dichloroethene	0.779	mg/kg	0.0018	ND
trans-1,3-Dichloropropene	0.779	mg/kg	0.0018	ND
Trichloroethene	0.779	mg/kg	0.0018	ND
Trichlorofluoromethane	0.779	mg/kg	0.0018	ND
Vinyl chloride	0.779	mg/kg	0.0018	ND
Xylenes (Total)	0.779	mg/kg	0.00092	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2101501

Lab#: AD33915-001 **Sample ID: SB-61SS (10')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/17/22 00:00	mbirmingham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/27/22 10:36	ABM/AH/JR/RR
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/17/22 23:45	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/25/22 08:00	PP	EPA 8270E	10/25/22 17:40	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/27/22 10:36	ABM/AH/JR/RR

Lab#: AD33915-002 **Sample ID: SB-61SS (2')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/17/22 00:00	mbirmingham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/26/22 18:55	ABM/AH/JR/RR
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/18/22 00:00	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/25/22 08:00	PP	EPA 8270E	10/25/22 17:17	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/26/22 18:55	ABM/AH/JR/RR

Lab#: AD33915-003 **Sample ID: SB-65SS (10')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/17/22 00:00	mbirmingham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/26/22 19:24	ABM/AH/JR/RR
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/18/22 00:17	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/25/22 08:00	PP	EPA 8270E	10/25/22 16:08	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/26/22 19:24	ABM/AH/JR/RR

Lab#: AD33915-004 **Sample ID: SB-66SS (10')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/17/22 00:00	mbirmingham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/26/22 19:54	ABM/AH/JR/RR
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/18/22 00:32	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/25/22 08:00	PP	EPA 8270E	10/25/22 16:31	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/26/22 19:54	ABM/AH/JR/RR

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2101501

Lab#: AD33915-005 **Sample ID: SB-67SS (4')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/17/22 00:00	mbirmingham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/27/22 11:06	ABM/AH/JR/RR
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/18/22 00:47	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/27/22	AT	EPA 8270E	10/27/22 12:59	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/27/22 11:06	ABM/AH/JR/RR

Lab#: AD33915-006 **Sample ID: SB-19SS (4-6)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/17/22 00:00	mbirmingham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/26/22 20:52	ABM/AH/JR/RR
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/20/22 00:28	WP
TPH 8015D (C8-C44)	Mod. Shaker	10/26/22 10:00	Lynda	EPA 8015D	10/26/22 20:52	ABM/AH/JR/RR
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/17/22 22:59	SG

Chain of Custody

2101501 0021

Hampton-Clarke, Inc. (WBE/DBE/SBE)

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Service Center: 137-C Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 210150[illegible]

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlek
Address: 2930 Eskridge Rd, Fairfax, VA
1b) Email/Cell/Fax/Ph: 703.698.9300
1c) Send Invoice to: Jeff Martineau
1d) Send Report to: Jeff + Rinzo. Rentlhle

Project Information

2a) Project: WMATA - NBG
2b) Project Mgr: Jeff Martineau
2c) Project Location (City/State): Washington DC
2d) Quote/PO # (If Applicable): D444100

FOR LAB USE ONLY

Batch #: AD33915

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	SVOC 8270	TPH DRO/GRO/ORO	VOC 8260	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: DI-H2O	9) Comments
-001	SB-61SS (10')	S	[illegible]	1030		G	X	X		1								
-002	SB-61SS (2')			1030		G	X	X		1								
-003	SB-65SS (10')		10/14/22	1005		G	X	X		1								
-004	SB-66SS (10')			1015		G	X	X		1								
-005	SB-67SS (4')			1020		G	X	X		1								
						G												
-006	SB-19SS (4-6)	S		1200		G		X	X	1	1						2	

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX	[illegible]	
FEDEX	[signature]	10/15/22	1200

11) Sampler (print name): RINZO RENTHLE Date: 10/14/22

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.7°C

Additional Notes

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD33915 Entered By: children

Date Entered 10/15/2022 3:44:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.7C
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD33915-001	10/15/22 12:00	CHILD	0	M	Received
AD33915-001	10/15/22 15:44	CHILD	0	M	Login
AD33915-001	10/17/22 09:03	MB	1	A	SOLDS/MIXING
AD33915-001	10/17/22 15:03	R12	1	A	NONE
AD33915-001	10/25/22 07:38	PP	1	A	BNA
AD33915-001	10/25/22 12:25	R12	1	A	NONE
AD33915-001	10/26/22 10:00	LV	1	A	TPH
AD33915-001	10/26/22 10:02	R12	1	A	NONE
AD33915-001	10/17/22 17:06	R30	2	A	NONE
AD33915-001	10/17/22 17:37	AB	2	A	GRO
AD33915-001	10/17/22 17:52	R30	2	A	NONE
AD33915-001	10/17/22 17:53	R31	3	A	NONE
AD33915-001	10/17/22 18:00	WP	3	M	GRO
AD33915-001	10/18/22 02:21	R31	3	A	NONE
AD33915-002	10/15/22 12:00	CHILD	0	M	Received
AD33915-002	10/15/22 15:44	CHILD	0	M	Login
AD33915-002	10/17/22 09:03	MB	1	A	SOLDS/MIXING
AD33915-002	10/17/22 15:03	R12	1	A	NONE
AD33915-002	10/25/22 07:38	PP	1	A	BNA
AD33915-002	10/25/22 12:25	R12	1	A	NONE
AD33915-002	10/26/22 10:00	LV	1	A	TPH
AD33915-002	10/26/22 10:02	R12	1	A	NONE
AD33915-002	10/17/22 17:06	R30	2	A	NONE
AD33915-002	10/17/22 17:37	AB	2	A	GRO
AD33915-002	10/17/22 17:52	R30	2	A	NONE
AD33915-002	10/17/22 17:53	R31	3	A	NONE
AD33915-002	10/17/22 18:00	WP	3	M	GRO
AD33915-002	10/18/22 02:21	R31	3	A	NONE
AD33915-003	10/15/22 12:00	CHILD	0	M	Received
AD33915-003	10/15/22 15:44	CHILD	0	M	Login
AD33915-003	10/17/22 09:03	MB	1	A	SOLDS/MIXING
AD33915-003	10/17/22 15:03	R12	1	A	NONE
AD33915-003	10/25/22 07:36	PP	1	A	BNA
AD33915-003	10/25/22 12:25	R12	1	A	NONE
AD33915-003	10/26/22 10:00	LV	1	A	TPH
AD33915-003	10/26/22 10:02	R12	1	A	NONE
AD33915-003	10/17/22 17:06	R30	2	A	NONE
AD33915-003	10/17/22 17:37	AB	2	A	GRO
AD33915-003	10/17/22 17:52	R30	2	A	NONE
AD33915-003	10/17/22 17:53	R31	3	A	NONE
AD33915-003	10/17/22 18:00	WP	3	M	GRO
AD33915-003	10/18/22 02:21	R31	3	A	NONE
AD33915-004	10/15/22 12:00	CHILD	0	M	Received
AD33915-004	10/15/22 15:44	CHILD	0	M	Login
AD33915-004	10/17/22 09:03	MB	1	A	SOLDS/MIXING
AD33915-004	10/17/22 15:03	R12	1	A	NONE
AD33915-004	10/25/22 07:38	PP	1	A	BNA
AD33915-004	10/25/22 12:25	R12	1	A	NONE
AD33915-004	10/26/22 10:00	LV	1	A	TPH
AD33915-004	10/26/22 10:02	R12	1	A	NONE
AD33915-004	10/17/22 17:06	R30	2	A	NONE
AD33915-004	10/17/22 17:37	AB	2	A	GRO
AD33915-004	10/17/22 17:52	R30	2	A	NONE
AD33915-004	10/17/22 17:53	R31	3	A	NONE
AD33915-004	10/17/22 18:00	WP	3	M	GRO
AD33915-004	10/18/22 02:21	R31	3	A	NONE
AD33915-005	10/15/22 12:00	CHILD	0	M	Received
AD33915-005	10/15/22 15:44	CHILD	0	M	Login
AD33915-005	10/17/22 09:03	MB	1	A	SOLDS/MIXING
AD33915-005	10/17/22 15:03	R12	1	A	NONE
AD33915-005	10/25/22 07:38	PP	1	A	BNA
AD33915-005	10/25/22 12:25	R12	1	A	NONE
AD33915-005	10/26/22 10:00	LV	1	A	TPH
AD33915-005	10/26/22 10:02	R12	1	A	NONE
AD33915-005	10/27/22 10:01	AT	1	A	BNA
AD33915-005	10/27/22 13:23	R12	1	A	NONE
AD33915-005	10/17/22 17:06	R30	2	A	NONE
AD33915-005	10/17/22 17:37	AB	2	A	GRO
AD33915-005	10/17/22 17:52	R30	2	A	NONE
AD33915-005	10/17/22 17:53	R31	3	A	NONE
AD33915-005	10/17/22 18:00	WP	3	M	GRO
AD33915-005	10/18/22 02:21	R31	3	A	NONE
AD33915-006	10/15/22 12:00	CHILD	0	M	Received
AD33915-006	10/15/22 15:44	CHILD	0	M	Login
AD33915-006	10/17/22 09:03	MB	1	A	SOLDS/MIXING

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD33915-006	10/17/22 15:03	R12	1	A	NONE
AD33915-006	10/26/22 10:00	LV	1	A	TPH
AD33915-006	10/26/22 10:02	R12	1	A	NONE
AD33915-006	10/15/22 15:50	R31	2	A	NONE
AD33915-006	10/17/22 12:44	AB	2	A	VOA
AD33915-006	10/17/22 12:46	R31	2	A	NONE
AD33915-006	10/19/22 18:29	WP	2	M	GRO
AD33915-006	10/20/22 01:30	R31	2	A	NONE
AD33915-006	10/15/22 15:51	F19	3	A	NONE
AD33915-006	10/17/22 16:00	SG	3	A	VOA
AD33915-006	10/15/22 15:51	F19	4	A	NONE
AD33915-006	11/10/22 10:19	FDAN	4	A	DISPOSAL

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD33915-006
Client Id: SB-19SS (4-6)
Data File: 6M160558.D
Analysis Date: 10/17/22 22:59
Date Rec/Extracted: 10/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 6.42g
Final Vol: NA
Dilution: 0.779
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0018	U	56-23-5	Carbon Tetrachloride	0.0018	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0018	U	108-90-7	Chlorobenzene	0.0018	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0018	U	75-00-3	Chloroethane	0.0018	U
79-00-5	1,1,2-Trichloroethane	0.0018	U	67-66-3	Chloroform	0.0018	U
75-34-3	1,1-Dichloroethane	0.0018	U	74-87-3	Chloromethane	0.0018	U
75-35-4	1,1-Dichloroethene	0.0018	U	156-59-2	cis-1,2-Dichloroethene	0.0018	U
87-61-6	1,2,3-Trichlorobenzene	0.0018	U	10061-01-5	cis-1,3-Dichloropropene	0.0018	U
120-82-1	1,2,4-Trichlorobenzene	0.0018	U	110-82-7	Cyclohexane	0.0018	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0018	U	124-48-1	Dibromochloromethane	0.0018	U
106-93-4	1,2-Dibromoethane	0.00060	U	75-71-8	Dichlorodifluoromethane	0.0018	U
95-50-1	1,2-Dichlorobenzene	0.0018	U	100-41-4	Ethylbenzene	0.00092	U
107-06-2	1,2-Dichloroethane	0.0018	U	98-82-8	Isopropylbenzene	0.00092	U
78-87-5	1,2-Dichloropropane	0.0018	U	79601-23-1	m&p-Xylenes	0.0013	U
541-73-1	1,3-Dichlorobenzene	0.0018	U	79-20-9	Methyl Acetate	0.0018	U
106-46-7	1,4-Dichlorobenzene	0.0018	U	108-87-2	Methylcyclohexane	0.0018	U
123-91-1	1,4-Dioxane	0.092	U	**75-09-2**	**Methylene Chloride**	**0.0018**	**0.0034**
78-93-3	2-Butanone	0.0018	U	1634-04-4	Methyl-t-butyl ether	0.00092	U
591-78-6	2-Hexanone	0.0018	U	95-47-6	o-Xylene	0.00092	U
108-10-1	4-Methyl-2-Pentanone	0.0018	U	100-42-5	Styrene	0.0018	U
67-64-1	Acetone	0.0092	U	127-18-4	Tetrachloroethene	0.0018	U
71-43-2	Benzene	0.00092	U	108-88-3	Toluene	0.00092	U
74-97-5	Bromochloromethane	0.0018	U	156-60-5	trans-1,2-Dichloroethene	0.0018	U
75-27-4	Bromodichloromethane	0.0018	U	10061-02-6	trans-1,3-Dichloropropene	0.0018	U
75-25-2	Bromoform	0.0018	U	79-01-6	Trichloroethene	0.0018	U
74-83-9	Bromomethane	0.0018	U	75-69-4	Trichlorofluoromethane	0.0018	U
75-15-0	Carbon Disulfide	0.0018	U	75-01-4	Vinyl Chloride	0.0018	U
1330-20-7	Xylenes (Total)	0.00092	U				

Worksheet #: 662853

Total Target Concentration 0.0034

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

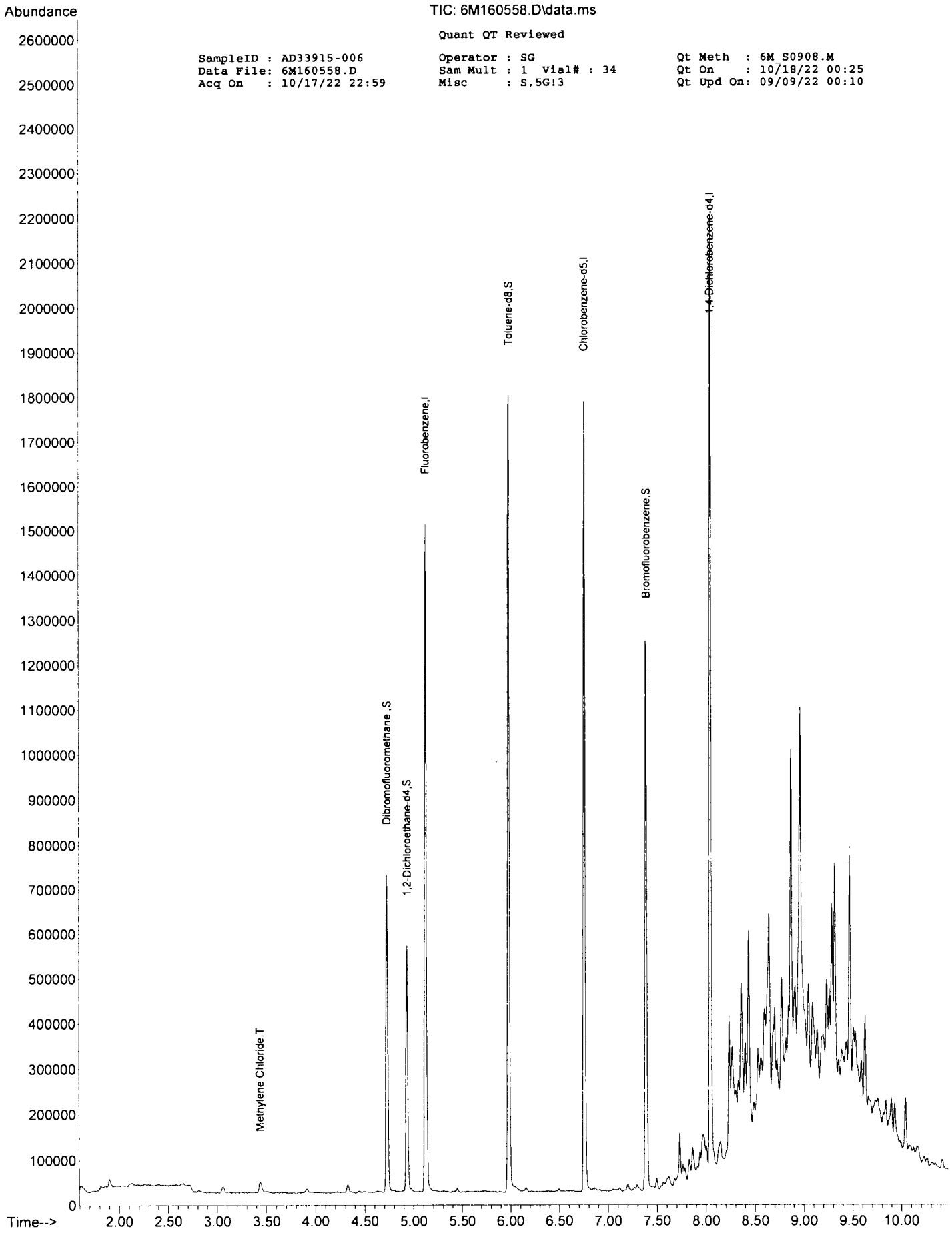
Quantitation Report (QT Reviewed)

SampleID : AD33915-006 Operator : SG Qt Meth : 6M_S0908.M
Data File: 6M160558.D Sam Mult : 1 Vial# : 34 Qt On : 10/18/22 00:25
Acq On : 10/17/22 22:59 Misc : S,5G!3 Qt Upd On: 09/09/22 00:10

Data Path : G:\GcMsData\2022\GCMS_6\Data\10-17-22\
Qt Path : G:\GcMsData\2022\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.123	96	898740	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	749861	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.043	152	440060	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.727	111	282086	32.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.97%			
39) 1,2-Dichloroethane-d4	4.934	67	132092	30.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.90%			
66) Toluene-d8	5.983	98	845170	30.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.17%			
76) Bromofluorobenzene	7.391	174	289706	26.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 89.73%			
Target Compounds						Qvalue
15) Methylene Chloride	3.434	84	12254m	3.7165	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M160558.D\data.ms
Quant QT Reviewed
SampleID : AD33915-006
Data File: 6M160558.D
Acq On : 10/17/22 22:59
Operator : SG
Sam Mult : 1 Vial# : 34
Misc : S,5G!3
Qt Meth : 6M_S0908.M
Qt On : 10/18/22 00:25
Qt Upd On: 09/09/22 00:10
Methylene Chloride,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M160535.D
Analysis Date: 10/17/22 14:34
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00065	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 662853

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

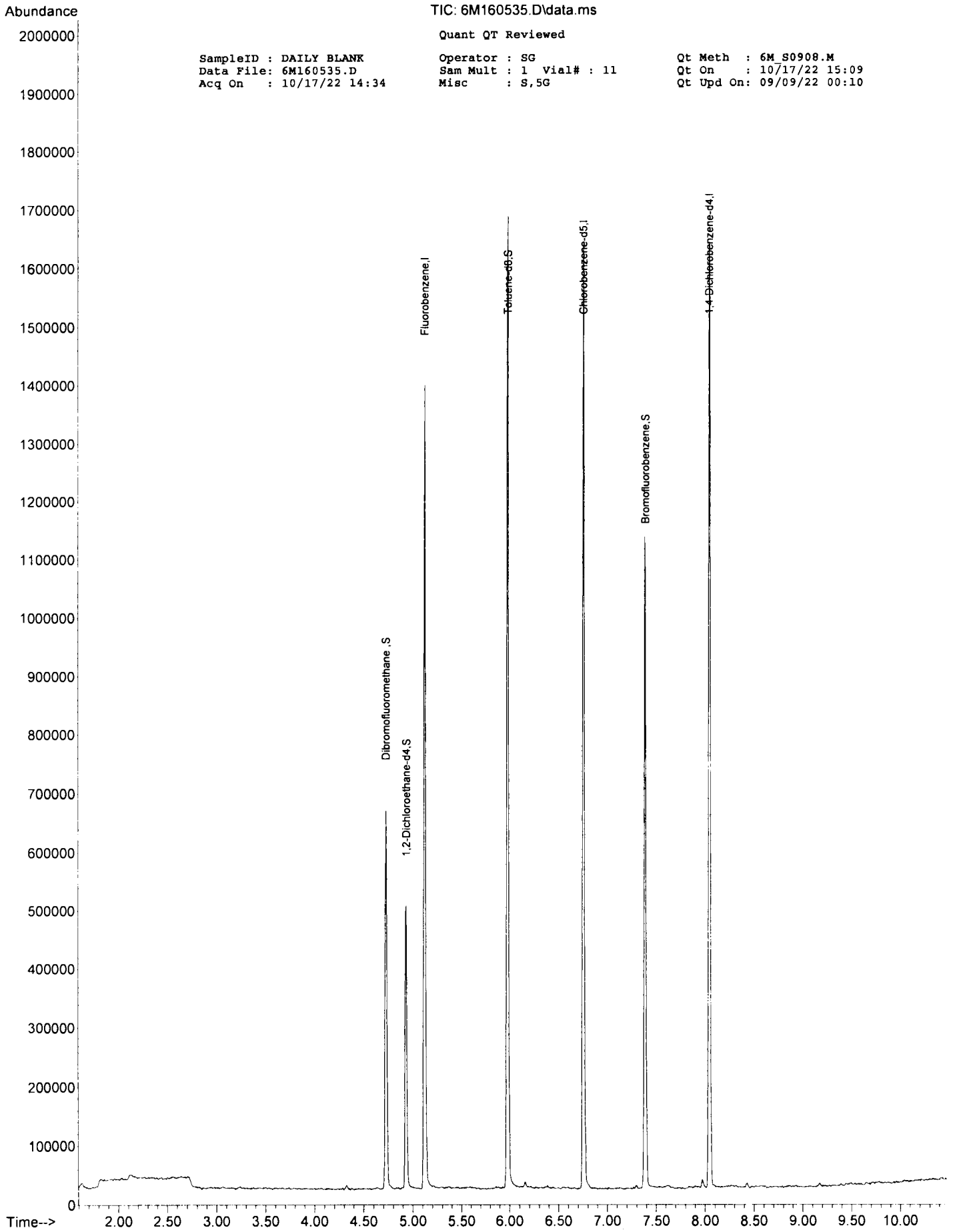
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : SG Qt Meth : 6M_S0908.M
Data File: 6M160535.D Sam Mult : 1 Vial# : 11 Qt On : 10/17/22 15:09
Acq On : 10/17/22 14:34 Misc : S,5G Qt Upd On: 09/09/22 00:10

Data Path : G:\GcMsData\2022\GCMS_6\Data\10-17-22\
Qt Path : G:\GcMsData\2022\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.123	96	830845	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	685404	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.043	152	358898	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.727	111	251274	30.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.10%			
39) 1,2-Dichloroethane-d4	4.934	67	118103	29.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.53%			
66) Toluene-d8	5.983	98	784292	30.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.73%			
76) Bromofluorobenzene	7.391	174	259646	29.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M160535.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 6M160535.D
Acq On : 10/17/22 14:34
Operator : SG
Sam Mult : 1 Vial# : 11
Misc : S,5G
Qt Meth : 6M_S0908.M
Qt On : 10/17/22 15:09
Qt Upd On: 09/09/22 00:10
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6M160535.D	DAILY BLANK	S	10/17/22 14:34	1		103	100	103	99		
6M160558.D	AD33915-006	S	10/17/22 22:59	1		107	103	101	90		
6M160536.D	AD33922-001	S	10/17/22 14:56	1		106	108	101	97		
6M160540.D	AD33922-001(MS)	S	10/17/22 16:24	1		95	96	107	103		
6M160541.D	MBS105005	S	10/17/22 16:46	1		93	93	110	102		
6M160542.D	AD33922-001(MSD)	S	10/17/22 17:08	1		95	96	109	102		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105005

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M160541.D	MBS105005	10/17/2022 4:46:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	46.9794	0	50	94	20	130
Dichlorodifluoromethane	1	28.4819	0	50	57	20	130
Chloromethane	1	38.2974	0	50	77	20	130
Bromomethane	1	38.9455	0	50	78	20	130
Vinyl Chloride	1	45.3353	0	50	91	20	130
Chloroethane	1	45.7555	0	50	92	20	130
Trichlorofluoromethane	1	46.058	0	50	92	20	130
Ethyl ether	1	34.8768	0	50	70	50	130
Furan	1	30.7622	0	50	62	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	59.839	0	50	120	50	130
Methylene Chloride	1	48.1902	0	50	96	50	130
Acrolein	1	252.4607	0	200	126	20	130
Acrylonitrile	1	37.9607	0	50	76	20	130
Iodomethane	1	42.9968	0	50	86	50	130
Acetone	1	181.0228	0	200	91	20	130
Carbon Disulfide	1	50.6043	0	50	101	50	130
t-Butyl Alcohol	1	191.3279	0	200	96	20	130
n-Hexane	1	67.5773	0	50	135*	50	130
Di-isopropyl-ether	1	51.1972	0	50	102	50	130
1,1-Dichloroethene	1	52.3756	0	50	105	50	130
Methyl Acetate	1	39.7166	0	50	79	50	130
Methyl-t-butyl ether	1	47.6626	0	50	95	50	130
1,1-Dichloroethane	1	53.6053	0	50	107	50	130
trans-1,2-Dichloroethene	1	53.0675	0	50	106	50	130
Ethyl-t-butyl ether	1	50.7424	0	50	101	50	130
cis-1,2-Dichloroethene	1	52.9216	0	50	106	50	130
Bromochloromethane	1	50.1451	0	50	100	50	130
2,2-Dichloropropane	1	54.7257	0	50	109	50	130
Ethyl acetate	1	41.6412	0	50	83	50	130
1,4-Dioxane	1	2114.203	0	2500	85	50	130
1,1-Dichloropropene	1	57.4495	0	50	115	50	130
Chloroform	1	51.4694	0	50	103	50	130
Cyclohexane	1	63.7323	0	50	127	50	130
1,2-Dichloroethane	1	44.0267	0	50	88	50	130
2-Butanone	1	31.2584	0	50	63	20	130
1,1,1-Trichloroethane	1	51.157	0	50	102	50	130
Carbon Tetrachloride	1	51.6036	0	50	103	50	130
Vinyl Acetate	1	47.7561	0	50	96	50	130
Bromodichloromethane	1	48.3836	0	50	97	50	130
Methylcyclohexane	1	60.5602	0	50	121	50	130
Dibromomethane	1	44.5978	0	50	89	50	130
1,2-Dichloropropane	1	52.8017	0	50	106	50	130
Trichloroethene	1	51.0693	0	50	102	50	130
Benzene	1	54.4522	0	50	109	50	130
tert-Amyl methyl ether	1	54.5592	0	50	109	50	130
Iso-propylacetate	1	46.8479	0	50	94	50	130
Methyl methacrylate	1	50.412	0	50	101	50	130
Dibromochloromethane	1	50.4704	0	50	101	50	130
2-Chloroethylvinylether	1	522.4869	0	50	1040*	50	130
cis-1,3-Dichloropropene	1	56.2675	0	50	113	50	130
trans-1,3-Dichloropropene	1	52.8935	0	50	106	50	130
Ethyl methacrylate	1	50.9305	0	50	102	50	130
1,1,2-Trichloroethane	1	53.0907	0	50	106	50	130
1,2-Dibromoethane	1	51.9495	0	50	104	50	130
1,3-Dichloropropane	1	54.3551	0	50	109	50	130
4-Methyl-2-Pentanone	1	46.1212	0	50	92	20	130
2-Hexanone	1	44.7735	0	50	90	20	130
Tetrachloroethene	1	57.3172	0	50	115	50	130
Toluene	1	57.0024	0	50	114	50	130
1,1,1,2-Tetrachloroethane	1	52.9333	0	50	106	50	130
Chlorobenzene	1	57.0669	0	50	114	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105005

Method: 8260D	Matrix: Soil		Units: mg/Kg	QC Type: MBS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	62.2267	0	50	124	50	130
n-Amyl acetate	1	61.292	0	50	123	50	130
Bromoform	1	54.1778	0	50	108	20	130
Ethylbenzene	1	67.0877	0	50	134*	50	130
1,1,2,2-Tetrachloroethane	1	58.6394	0	50	117	50	130
Styrene	1	69.8694	0	50	140*	50	130
m&p-Xylenes	1	150.1764	0	100	150*	50	130
o-Xylene	1	69.336	0	50	139*	50	130
trans-1,4-Dichloro-2-butene	1	59.4791	0	50	119	20	130
1,3-Dichlorobenzene	1	65.4358	0	50	131*	50	130
1,4-Dichlorobenzene	1	63.5086	0	50	127	50	130
1,2-Dichlorobenzene	1	62.3478	0	50	125	50	130
Isopropylbenzene	1	74.9198	0	50	150*	50	130
Cyclohexanone	1	245.5729	0	250	98	50	130
Camphene	1	69.7205	0	50	139*	50	130
1,2,3-Trichloropropane	1	60.598	0	50	121	50	130
2-Chlorotoluene	1	69.76	0	50	140*	50	130
p-Ethyltoluene	1	68.7275	0	50	137*	50	130
4-Chlorotoluene	1	70.8174	0	50	142*	50	130
n-Propylbenzene	1	78.9488	0	50	158*	50	130
Bromobenzene	1	67.9044	0	50	136*	50	130
1,3,5-Trimethylbenzene	1	61.5441	0	50	123	50	130
Butyl methacrylate	1	61.1339	0	50	122	50	130
t-Butylbenzene	1	72.8263	0	50	146*	50	130
1,2,4-Trimethylbenzene	1	73.8927	0	50	148*	50	130
sec-Butylbenzene	1	66.3076	0	50	133*	50	130
4-Isopropyltoluene	1	63.2482	0	50	126	50	130
n-Butylbenzene	1	67.7175	0	50	135*	50	130
p-Diethylbenzene	1	63.0083	0	50	126	50	130
1,2,4,5-Tetramethylbenzene	1	53.3112	0	50	107	50	130
1,2-Dibromo-3-Chloropropane	1	46.4812	0	50	93	50	130
Camphor	1	429.507	0	500	86	50	130
Hexachlorobutadiene	1	67.0454	0	50	134*	50	130
1,2,4-Trichlorobenzene	1	61.3331	0	50	123	50	130
1,2,3-Trichlorobenzene	1	61.1099	0	50	122	50	130
Naphthalene	1	48.6248	0	50	97	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105005

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M160540.D	AD33922-001(MS)	10/17/2022 4:24:00 PM
Non Spike(If applicable):	6M160536.D	AD33922-001	10/17/2022 2:56:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	38.9412	0	50	78	20	130
Dichlorodifluoromethane	1	18.9582	0	50	38	20	130
Chloromethane	1	27.0428	0	50	54	20	130
Bromomethane	1	28.5876	0	50	57	20	130
Vinyl Chloride	1	31.4392	0	50	63	20	130
Chloroethane	1	34.1325	0	50	68	20	130
Trichlorofluoromethane	1	33.9033	0	50	68	20	130
Ethyl ether	1	26.3973	0	50	53	50	130
Furan	1	22.067	0	50	44*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	43.3378	0	50	87	50	130
Methylene Chloride	1	35.2444	0	50	70	50	130
Acrolein	1	121.7951	0	200	61	20	130
Acrylonitrile	1	25.0185	0	50	50	20	130
Iodomethane	1	28.7143	0	50	57	50	130
Acetone	1	242.2466	164.4964	200	39	20	130
Carbon Disulfide	1	34.9423	0	50	70	50	130
t-Butyl Alcohol	1	124.1733	0	200	62	20	130
n-Hexane	1	41.2561	0	50	83	50	130
Di-isopropyl-ether	1	35.0574	0	50	70	50	130
1,1-Dichloroethene	1	37.9061	0	50	76	50	130
Methyl Acetate	1	34.7416	0	50	69	50	130
Methyl-t-butyl ether	1	34.2307	0	50	68	50	130
1,1-Dichloroethane	1	37.4038	0	50	75	50	130
trans-1,2-Dichloroethene	1	36.6542	0	50	73	50	130
Ethyl-t-butyl ether	1	36.0996	0	50	72	50	130
cis-1,2-Dichloroethene	1	35.4358	0	50	71	50	130
Bromochloromethane	1	35.8129	0	50	72	50	130
2,2-Dichloropropane	1	38.8628	0	50	78	50	130
Ethyl acetate	1	22.4319	0	50	45*	50	130
1,4-Dioxane	1	1608.032	0	2500	64	50	130
1,1-Dichloropropene	1	38.5684	0	50	77	50	130
Chloroform	1	36.3167	0	50	73	50	130
Cyclohexane	1	41.7274	0	50	83	50	130
1,2-Dichloroethane	1	32.6167	0	50	65	50	130
2-Butanone	1	22.1351	0	50	44	20	130
1,1,1-Trichloroethane	1	36.0636	0	50	72	50	130
Carbon Tetrachloride	1	35.889	0	50	72	50	130
Vinyl Acetate	1	21.4195	0	50	43*	50	130
Bromodichloromethane	1	34.7606	0	50	70	50	130
Methylcyclohexane	1	37.8158	0	50	76	50	130
Dibromomethane	1	32.7831	0	50	66	50	130
1,2-Dichloropropane	1	37.2897	0	50	75	50	130
Trichloroethene	1	35.6953	0	50	71	50	130
Benzene	1	37.8471	0	50	76	50	130
tert-Amyl methyl ether	1	38.7841	0	50	78	50	130
Iso-propylacetate	1	28.8359	0	50	58	50	130
Methyl methacrylate	1	39.8761	0	50	80	50	130
Dibromochloromethane	1	35.1918	0	50	70	50	130
2-Chloroethylvinylether	1	758.1474	0	50	1520*	50	130
cis-1,3-Dichloropropene	1	40.0618	0	50	80	50	130
trans-1,3-Dichloropropene	1	35.6796	0	50	71	50	130
Ethyl methacrylate	1	31.747	0	50	63	50	130
1,1,2-Trichloroethane	1	38.1181	0	50	76	50	130
1,2-Dibromoethane	1	36.0239	0	50	72	50	130
1,3-Dichloropropane	1	37.8895	0	50	76	50	130
4-Methyl-2-Pentanone	1	32.4737	0	50	65	20	130
2-Hexanone	1	30.245	0	50	60	20	130
Tetrachloroethene	1	36.4492	0	50	73	50	130
Toluene	1	38.1919	0	50	76	50	130
1,1,1,2-Tetrachloroethane	1	34.8289	0	50	70	50	130
Chlorobenzene	1	37.4243	0	50	75	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105005

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	32.1199	0	50	64	50	130
n-Amyl acetate	1	17.4051	0	50	35*	50	130
Bromoform	**1**	**37.8932**	**0**	**50**	**76**	**20**	**130**
Ethylbenzene	**1**	**45.7396**	**0**	**50**	**91**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**41.9823**	**0**	**50**	**84**	**50**	**130**
Styrene	**1**	**45.4794**	**0**	**50**	**91**	**50**	**130**
m&p-Xylenes	**1**	**97.4228**	**0**	**100**	**97**	**50**	**130**
o-Xylene	**1**	**46.207**	**0**	**50**	**92**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	38.8508	0	50	78	20	130
1,3-Dichlorobenzene	**1**	**39.8435**	**0**	**50**	**80**	**50**	**130**
1,4-Dichlorobenzene	**1**	**38.5118**	**0**	**50**	**77**	**50**	**130**
1,2-Dichlorobenzene	**1**	**38.0414**	**0**	**50**	**76**	**50**	**130**
Isopropylbenzene	**1**	**47.4859**	**0**	**50**	**95**	**50**	**130**
Cyclohexanone	1	211.004	0	250	84	50	130
Camphene	1	37.258	0	50	75	50	130
1,2,3-Trichloropropane	1	41.4859	0	50	83	50	130
2-Chlorotoluene	1	42.6831	0	50	85	50	130
p-Ethyltoluene	1	41.7612	0	50	84	50	130
4-Chlorotoluene	1	43.4204	0	50	87	50	130
n-Propylbenzene	1	47.6453	0	50	95	50	130
Bromobenzene	1	43.3551	0	50	87	50	130
1,3,5-Trimethylbenzene	1	37.2974	0	50	75	50	130
Butyl methacrylate	1	35.7151	0	50	71	50	130
t-Butylbenzene	1	43.3188	0	50	87	50	130
1,2,4-Trimethylbenzene	1	44.4626	0	50	89	50	130
sec-Butylbenzene	1	37.5733	0	50	75	50	130
4-Isopropyltoluene	1	35.8782	0	50	72	50	130
n-Butylbenzene	1	37.018	0	50	74	50	130
p-Diethylbenzene	1	35.0309	0	50	70	50	130
1,2,4,5-Tetramethylbenzene	1	30.5086	0	50	61	50	130
1,2-Dibromo-3-Chloropropane	**1**	**30.8002**	**0**	**50**	**62**	**50**	**130**
Camphor	1	292.1979	0	500	58	50	130
Hexachlorobutadiene	1	27.8507	0	50	56	50	130
1,2,4-Trichlorobenzene	**1**	**29.9169**	**0**	**50**	**60**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**27.8231**	**0**	**50**	**56**	**50**	**130**
Naphthalene	1	26.8114	0	50	54	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105005

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M160542.D	AD33922-001(MSD)	10/17/2022 5:08:00 PM
Non Spike(If applicable):	6M160536.D	AD33922-001	10/17/2022 2:56:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	35.2663	0	50	71	20	130
Dichlorodifluoromethane	1	19.3348	0	50	39	20	130
Chloromethane	1	26.3092	0	50	53	20	130
Bromomethane	1	25.3642	0	50	51	20	130
Vinyl Chloride	1	30.6117	0	50	61	20	130
Chloroethane	1	29.6087	0	50	59	20	130
Trichlorofluoromethane	1	29.8607	0	50	60	20	130
Ethyl ether	1	24.4891	0	50	49*	50	130
Furan	1	20.0692	0	50	40*	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	38.3631	0	50	77	50	130
Methylene Chloride	1	32.9865	0	50	66	50	130
Acrolein	1	63.929	0	200	32	20	130
Acrylonitrile	1	24.0739	0	50	48	20	130
Iodomethane	1	27.9537	0	50	56	50	130
Acetone	1	217.6123	164.4964	200	27	20	130
Carbon Disulfide	1	31.3406	0	50	63	50	130
t-Butyl Alcohol	1	116.892	0	200	58	20	130
n-Hexane	1	36.9395	0	50	74	50	130
Di-isopropyl-ether	1	33.5761	0	50	67	50	130
1,1-Dichloroethene	1	34.1449	0	50	68	50	130
Methyl Acetate	1	38.9195	0	50	78	50	130
Methyl-t-butyl ether	1	32.6837	0	50	65	50	130
1,1-Dichloroethane	1	35.8451	0	50	72	50	130
trans-1,2-Dichloroethene	1	33.3021	0	50	67	50	130
Ethyl-t-butyl ether	1	33.0071	0	50	66	50	130
cis-1,2-Dichloroethene	1	33.1005	0	50	66	50	130
Bromochloromethane	1	33.9073	0	50	68	50	130
2,2-Dichloropropane	1	35.1771	0	50	70	50	130
Ethyl acetate	1	11.8962	0	50	24*	50	130
1,4-Dioxane	1	1438.029	0	2500	58	50	130
1,1-Dichloropropene	1	35.4945	0	50	71	50	130
Chloroform	1	33.5377	0	50	67	50	130
Cyclohexane	1	37.7395	0	50	75	50	130
1,2-Dichloroethane	1	30.0652	0	50	60	50	130
2-Butanone	1	23.5926	0	50	47	20	130
1,1,1-Trichloroethane	1	33.5796	0	50	67	50	130
Carbon Tetrachloride	1	33.2746	0	50	67	50	130
Vinyl Acetate	1	17.9389	0	50	36*	50	130
Bromodichloromethane	1	32.9335	0	50	66	50	130
Methylcyclohexane	1	32.1204	0	50	64	50	130
Dibromomethane	1	30.1448	0	50	60	50	130
1,2-Dichloropropane	1	35.5204	0	50	71	50	130
Trichloroethene	1	33.1822	0	50	66	50	130
Benzene	1	34.987	0	50	70	50	130
tert-Amyl methyl ether	1	37.0604	0	50	74	50	130
Iso-propylacetate	1	22.0501	0	50	44*	50	130
Methyl methacrylate	1	44.3602	0	50	89	50	130
Dibromochloromethane	1	32.4592	0	50	65	50	130
2-Chloroethylvinylether	1	326.8921	0	50	654*	50	130
cis-1,3-Dichloropropene	1	36.0221	0	50	72	50	130
trans-1,3-Dichloropropene	1	33.7931	0	50	68	50	130
Ethyl methacrylate	1	23.7086	0	50	47*	50	130
1,1,2-Trichloroethane	1	35.343	0	50	71	50	130
1,2-Dibromoethane	1	33.5044	0	50	67	50	130
1,3-Dichloropropane	1	36.2229	0	50	72	50	130
4-Methyl-2-Pentanone	1	28.5271	0	50	57	20	130
2-Hexanone	1	25.344	0	50	51	20	130
Tetrachloroethene	1	34.1293	0	50	68	50	130
Toluene	1	35.3467	0	50	71	50	130
1,1,1,2-Tetrachloroethane	1	33.0336	0	50	66	50	130
Chlorobenzene	1	34.5338	0	50	69	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105005

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	14.3292	0	50	29*	50	130
n-Amyl acetate	1	5.1734	0	50	10*	50	130
Bromoform	**1**	**34.4216**	**0**	**50**	**69**	**20**	**130**
Ethylbenzene	**1**	**38.2247**	**0**	**50**	**76**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**36.7916**	**0**	**50**	**74**	**50**	**130**
Styrene	**1**	**38.099**	**0**	**50**	**76**	**50**	**130**
m&p-Xylenes	**1**	**84.2678**	**0**	**100**	**84**	**50**	**130**
o-Xylene	**1**	**39.3022**	**0**	**50**	**79**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	32.115	0	50	64	20	130
1,3-Dichlorobenzene	**1**	**32.5241**	**0**	**50**	**65**	**50**	**130**
1,4-Dichlorobenzene	**1**	**31.5247**	**0**	**50**	**63**	**50**	**130**
1,2-Dichlorobenzene	**1**	**31.0635**	**0**	**50**	**62**	**50**	**130**
Isopropylbenzene	**1**	**38.3148**	**0**	**50**	**77**	**50**	**130**
Cyclohexanone	1	168.8186	0	250	68	50	130
Camphene	1	29.8737	0	50	60	50	130
1,2,3-Trichloropropane	1	36.773	0	50	74	50	130
2-Chlorotoluene	1	36.173	0	50	72	50	130
p-Ethyltoluene	1	34.6788	0	50	69	50	130
4-Chlorotoluene	1	36.3155	0	50	73	50	130
n-Propylbenzene	1	39.6641	0	50	79	50	130
Bromobenzene	1	37.4392	0	50	75	50	130
1,3,5-Trimethylbenzene	1	30.5514	0	50	61	50	130
Butyl methacrylate	1	22.5941	0	50	45*	50	130
t-Butylbenzene	1	34.8939	0	50	70	50	130
1,2,4-Trimethylbenzene	1	35.968	0	50	72	50	130
sec-Butylbenzene	1	29.5535	0	50	59	50	130
4-Isopropyltoluene	1	26.8664	0	50	54	50	130
n-Butylbenzene	1	27.1274	0	50	54	50	130
p-Diethylbenzene	1	25.9429	0	50	52	50	130
1,2,4,5-Tetramethylbenzene	1	19.1617	0	50	38*	50	130
1,2-Dibromo-3-Chloropropane	**1**	**27.261**	**0**	**50**	**55**	**50**	**130**
Camphor	1	253.2715	0	500	51	50	130
Hexachlorobutadiene	1	19.2756	0	50	39*	50	130
1,2,4-Trichlorobenzene	**1**	**20.4837**	**0**	**50**	**41***	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**19.2348**	**0**	**50**	**38***	**50**	**130**
Naphthalene	1	19.5794	0	50	39*	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105005

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M160542.D	AD33922-001(MSD)	10/17/2022 5:08:00 PM
Duplicate(If applicable):	6M160540.D	AD33922-001(MS)	10/17/2022 4:24:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	35.2663	38.9412	9.9	30
Dichlorodifluoromethane	**1**	**19.3348**	**18.9582**	**2**	**30**
Chloromethane	**1**	**26.3092**	**27.0428**	**2.8**	**30**
Bromomethane	**1**	**25.3642**	**28.5876**	**12**	**30**
Vinyl Chloride	**1**	**30.6117**	**31.4392**	**2.7**	**40**
Chloroethane	**1**	**29.6087**	**34.1325**	**14**	**30**
Trichlorofluoromethane	**1**	**29.8607**	**33.9033**	**13**	**30**
Ethyl ether	1	24.4891	26.3973	7.5	30
Furan	1	20.0692	22.067	9.5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**38.3631**	**43.3378**	**12**	**30**
Methylene Chloride	**1**	**32.9865**	**35.2444**	**6.6**	**30**
Acrolein	1	63.929	121.7951	62*	30
Acrylonitrile	1	24.0739	25.0185	3.8	30
Iodomethane	1	27.9537	28.7143	2.7	30
Acetone	**1**	**217.6123**	**242.2466**	**11**	**30**
Carbon Disulfide	**1**	**31.3406**	**34.9423**	**11**	**30**
t-Butyl Alcohol	1	116.892	124.1733	6	30
n-Hexane	1	36.9395	41.2561	11	30
Di-isopropyl-ether	1	33.5761	35.0574	4.3	30
1,1-Dichloroethene	**1**	**34.1449**	**37.9061**	**10**	**40**
Methyl Acetate	**1**	**38.9195**	**34.7416**	**11**	**30**
Methyl-t-butyl ether	**1**	**32.6837**	**34.2307**	**4.6**	**30**
1,1-Dichloroethane	**1**	**35.8451**	**37.4038**	**4.3**	**40**
trans-1,2-Dichloroethene	**1**	**33.3021**	**36.6542**	**9.6**	**30**
Ethyl-t-butyl ether	1	33.0071	36.0996	8.9	30
cis-1,2-Dichloroethene	**1**	**33.1005**	**35.4358**	**6.8**	**30**
Bromochloromethane	**1**	**33.9073**	**35.8129**	**5.5**	**30**
2,2-Dichloropropane	1	35.1771	38.8628	10	30
Ethyl acetate	1	11.8962	22.4319	61*	30
1,4-Dioxane	**1**	**1438.029**	**1608.032**	**11**	**30**
1,1-Dichloropropene	1	35.4945	38.5684	8.3	30
Chloroform	**1**	**33.5377**	**36.3167**	**8**	**40**
Cyclohexane	**1**	**37.7395**	**41.7274**	**10**	**30**
1,2-Dichloroethane	**1**	**30.0652**	**32.6167**	**8.1**	**40**
2-Butanone	**1**	**23.5926**	**22.1351**	**6.4**	**40**
1,1,1-Trichloroethane	**1**	**33.5796**	**36.0636**	**7.1**	**30**
Carbon Tetrachloride	**1**	**33.2746**	**35.889**	**7.6**	**40**
Vinyl Acetate	1	17.9389	21.4195	18	30
Bromodichloromethane	**1**	**32.9335**	**34.7606**	**5.4**	**30**
Methylcyclohexane	**1**	**32.1204**	**37.8158**	**16**	**30**
Dibromomethane	1	30.1448	32.7831	8.4	30
1,2-Dichloropropane	**1**	**35.5204**	**37.2897**	**4.9**	**30**
Trichloroethene	**1**	**33.1822**	**35.6953**	**7.3**	**40**
Benzene	**1**	**34.987**	**37.8471**	**7.9**	**40**
tert-Amyl methyl ether	1	37.0604	38.7841	4.5	30
Iso-propylacetate	1	22.0501	28.8359	27	30
Methyl methacrylate	1	44.3602	39.8761	11	30
Dibromochloromethane	**1**	**32.4592**	**35.1918**	**8.1**	**30**
2-Chloroethylvinylether	1	326.8921	758.1474	79*	30
cis-1,3-Dichloropropene	**1**	**36.0221**	**40.0618**	**11**	**30**
trans-1,3-Dichloropropene	**1**	**33.7931**	**35.6796**	**5.4**	**30**
Ethyl methacrylate	1	23.7086	31.747	29	30
1,1,2-Trichloroethane	**1**	**35.343**	**38.1181**	**7.6**	**30**
1,2-Dibromoethane	**1**	**33.5044**	**36.0239**	**7.2**	**30**
1,3-Dichloropropane	1	36.2229	37.8895	4.5	30
4-Methyl-2-Pentanone	**1**	**28.5271**	**32.4737**	**13**	**30**
2-Hexanone	**1**	**25.344**	**30.245**	**18**	**30**
Tetrachloroethene	**1**	**34.1293**	**36.4492**	**6.6**	**40**
Toluene	**1**	**35.3467**	**38.1919**	**7.7**	**40**
1,1,1,2-Tetrachloroethane	1	33.0336	34.8289	5.3	30
Chlorobenzene	**1**	**34.5338**	**37.4243**	**8**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS105005

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	14.3292	32.1199	77*	30
n-Amyl acetate	1	5.1734	17.4051	108*	30
Bromoform	**1**	**34.4216**	**37.8932**	**9.6**	**30**
Ethylbenzene	**1**	**38.2247**	**45.7396**	**18**	**30**
1,1,2,2-Tetrachloroethane	**1**	**36.7916**	**41.9823**	**13**	**30**
Styrene	**1**	**38.099**	**45.4794**	**18**	**30**
m&p-Xylenes	**1**	**84.2678**	**97.4228**	**14**	**30**
o-Xylene	**1**	**39.3022**	**46.207**	**16**	**30**
trans-1,4-Dichloro-2-butene	1	32.115	38.8508	19	30
1,3-Dichlorobenzene	**1**	**32.5241**	**39.8435**	**20**	**30**
1,4-Dichlorobenzene	**1**	**31.5247**	**38.5118**	**20**	**40**
1,2-Dichlorobenzene	**1**	**31.0635**	**38.0414**	**20**	**40**
Isopropylbenzene	**1**	**38.3148**	**47.4859**	**21**	**30**
Cyclohexanone	1	168.8186	211.004	22	30
Camphene	1	29.8737	37.258	22	30
1,2,3-Trichloropropane	1	36.773	41.4859	12	30
2-Chlorotoluene	1	36.173	42.6831	17	30
p-Ethyltoluene	1	34.6788	41.7612	19	30
4-Chlorotoluene	1	36.3155	43.4204	18	30
n-Propylbenzene	1	39.6641	47.6453	18	40
Bromobenzene	1	37.4392	43.3551	15	30
1,3,5-Trimethylbenzene	1	30.5514	37.2974	20	30
Butyl methacrylate	1	22.5941	35.7151	45*	30
t-Butylbenzene	1	34.8939	43.3188	22	30
1,2,4-Trimethylbenzene	1	35.968	44.4626	21	30
sec-Butylbenzene	1	29.5535	37.5733	24	40
4-Isopropyltoluene	1	26.8664	35.8782	29	30
n-Butylbenzene	1	27.1274	37.018	31*	30
p-Diethylbenzene	1	25.9429	35.0309	30	30
1,2,4,5-Tetramethylbenzene	1	19.1617	30.5086	46*	30
1,2-Dibromo-3-Chloropropane	**1**	**27.261**	**30.8002**	**12**	**30**
Camphor	1	253.2715	292.1979	14	30
Hexachlorobutadiene	1	19.2756	27.8507	36*	30
1,2,4-Trichlorobenzene	**1**	**20.4837**	**29.9169**	**37***	**30**
1,2,3-Trichlorobenzene	**1**	**19.2348**	**27.8231**	**37***	**30**
Naphthalene	1	19.5794	26.8114	31*	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M160535.D
Matrix: Soil

Blank Analysis Date: 10/17/22 14:34
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD33915-006	6M160558.D	10/17/22 22:59
AD33922-001(MSD	6M160542.D	10/17/22 17:08
MBS105005	6M160541.D	10/17/22 16:46
AD33922-001(MS)	6M160540.D	10/17/22 16:24
AD33922-001	6M160536.D	10/17/22 14:56

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M159196.D
Analysis Date: 09/08/22 18:14
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.379 to 7.385 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.3	2186	PASS
75	95	30	60	51.2	6113	PASS
95	95	100	100	100.0	11929	PASS
96	95	5	9	7.1	846	PASS
173	174	0.00	2	1.2	132	PASS
174	95	50	100	95.1	11340	PASS
175	174	5	9	8.7	983	PASS
176	174	95	101	98.8	11209	PASS
177	176	5	9	7.3	818	PASS

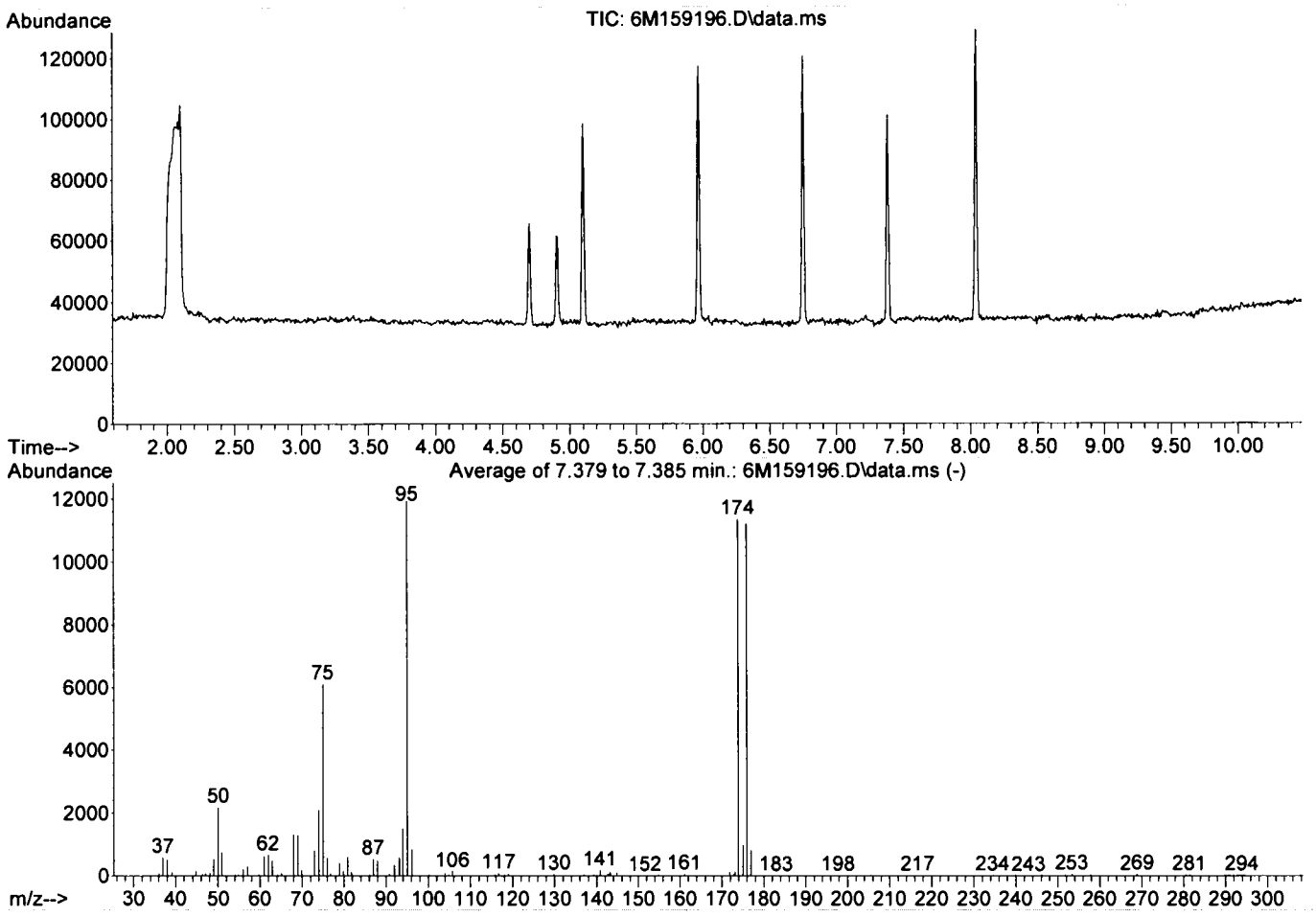
Data File	Sample Number	Analysis Date:
6M159199.D	CAL @ 0.5 PPB	09/08/22 19:13
6M159200.D	CAL @ 1 PPB	09/08/22 19:34
6M159201.D	CAL @ 5 PPB	09/08/22 19:56
6M159202.D	CAL @ 2 PPB	09/08/22 20:18
6M159203.D	CAL @ 20 PPB	09/08/22 20:40
6M159204.D	CAL @ 50 PPB	09/08/22 21:02
6M159205.D	CAL @500 PPB	09/08/22 21:24
6M159206.D	CAL @ 250 PPB	09/08/22 21:46
6M159207.D	CAL @100 PPB	09/08/22 22:07
6M159210.D	ICV	09/08/22 23:13

CLPBFB

Data Path : G:\GcMsData\2022\GCMS_6\Data\09-08-22\
Data File : 6M159196.D
Acq On : 08 Sep 2022 18:14
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_6\MethodQt\6M_S0603.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon Jun 06 12:50:27 2022



Spectrum Information: Average of 7.379 to 7.385 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	2186	PASS
75	95	30	60	51.2	6113	PASS
95	95	100	100	100.0	11929	PASS
96	95	5	9	7.1	846	PASS
173	174	0.00	2	1.2	132	PASS
174	95	50	100	95.1	11340	PASS
175	174	5	9	8.7	983	PASS
176	174	95	101	98.8	11209	PASS
177	176	5	9	7.3	818	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M160528.D
Analysis Date: 10/17/22 12:01
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.361 to 7.409 min

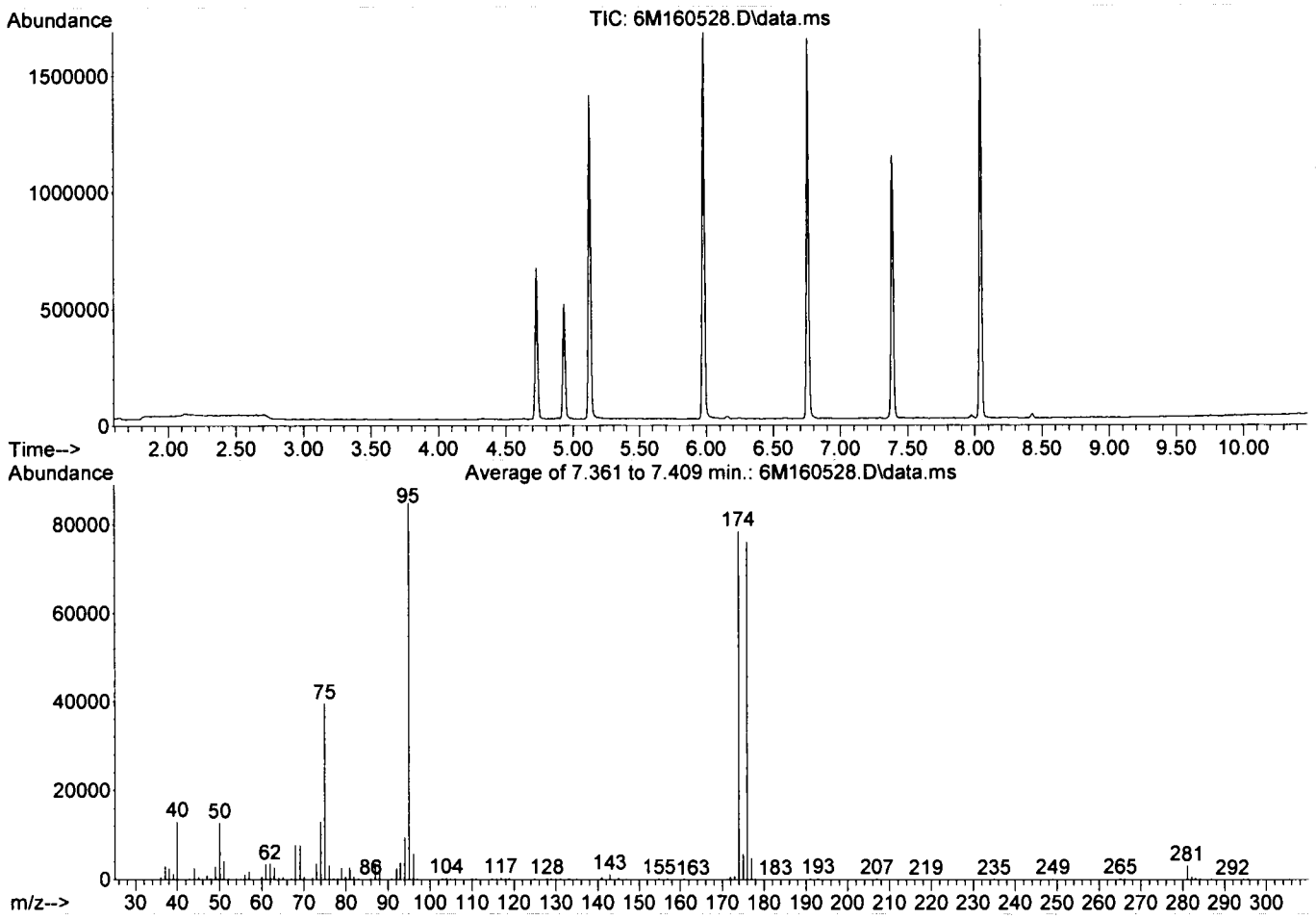
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.0	12772	PASS
75	95	30	60	46.6	39588	PASS
95	95	100	100	100.0	84878	PASS
96	95	5	9	6.9	5846	PASS
173	174	0.00	2	1.1	846	PASS
174	95	50	100	92.5	78486	PASS
175	174	5	9	7.4	5841	PASS
176	174	95	101	97.0	76097	PASS
177	176	5	9	6.4	4863	PASS

Data File	Sample Number	Analysis Date:
6M160529.D	50 PPB	10/17/22 12:22
6M160530.D	CAL @ 50 PPB	10/17/22 12:44
6M160535.D	DAILY BLANK	10/17/22 14:34
6M160536.D	AD33922-001	10/17/22 14:56
6M160537.D	AD33922-003	10/17/22 15:18
6M160538.D	AD33895-002	10/17/22 15:40
6M160539.D	AD33914-004	10/17/22 16:02
6M160540.D	AD33922-001(MS)	10/17/22 16:24
6M160541.D	MBS105005	10/17/22 16:46
6M160542.D	AD33922-001(MSD	10/17/22 17:08
6M160543.D	JUG-2	10/17/22 17:30
6M160544.D	AD33860-001	10/17/22 17:52
6M160545.D	AD33922-005	10/17/22 18:14
6M160546.D	AD33910-001	10/17/22 18:36
6M160547.D	AD33910-002	10/17/22 18:58
6M160548.D	AD33910-003	10/17/22 19:20
6M160549.D	AD33910-004	10/17/22 19:42
6M160550.D	AD33900-001	10/17/22 20:04
6M160551.D	AD33923-001	10/17/22 20:25
6M160552.D	AD33908-004	10/17/22 20:47
6M160553.D	AD33908-005	10/17/22 21:09
6M160554.D	AD33908-006	10/17/22 21:31
6M160555.D	AD33911-002	10/17/22 21:53
6M160556.D	AD33911-005	10/17/22 22:15
6M160557.D	AD33894-003	10/17/22 22:37
6M160558.D	AD33915-006	10/17/22 22:59
6M160559.D	AD33923-005	10/17/22 23:21
6M160560.D	AD33923-003	10/17/22 23:43

Data Path : G:\GcMsData\2022\GCMS_6\Data\10-17-22\
Data File : 6M160528.D
Acq On : 17 Oct 2022 12:01
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_6\MethodQt\6M_S0908.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 08 22:27:17 2022



Spectrum Information: Average of 7.361 to 7.409 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.0	12772	PASS
75	95	30	60	46.6	39588	PASS
95	95	100	100	100.0	84878	PASS
96	95	5	9	6.9	5846	PASS
173	174	0.00	2	1.1	846	PASS
174	95	50	100	92.5	78486	PASS
175	174	5	9	7.4	5841	PASS
176	174	95	101	97.0	76097	PASS
177	176	5	9	6.4	4863	PASS

K7

2101501 0045

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M159203.D	CAL @ 20 PPB	09/08/22 20:40	2	6M159201.D	CAL @ 5 PPB	09/08/22 19:56
3	6M159202.D	CAL @ 2 PPB	09/08/22 20:18	4	6M159204.D	CAL @ 50 PPB	09/08/22 21:02
5	6M159207.D	CAL @100 PPB	09/08/22 22:07	6	6M159206.D	CAL @ 250 PPB	09/08/22 21:46
7	6M159205.D	CAL @500 PPB	09/08/22 21:24	8	6M159200.D	CAL @ 1 PPB	09/08/22 19:34
9	6M159199.D	CAL @ 0.5 PPB	09/08/22 19:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Qua	0.0911	0.1676	0.2281	0.1060	0.1156	0.1184	0.1274	-----	-----	0.136	1.65	0.999	1.00	34	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.0972	0.1085	0.1073	0.1215	0.1391	0.1371	0.1493	-----	-----	0.123	1.65	0.998	1.00	16	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.1162	0.1316	0.1401	0.1298	0.1446	0.1472	0.1533	-----	-----	0.138	1.82	1.00	1.00	9.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1072	0.1441	0.1466	0.1132	0.1259	0.1320	0.1347	-----	-----	0.129	2.25	1.00	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.1190	0.1456	0.1224	0.1399	0.1575	0.1585	0.1646	-----	-----	0.144	1.93	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.0780	0.0938	0.0886	0.0900	0.0989	0.1007	0.1012	-----	-----	0.0931	2.34	1.00	1.00	8.9	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.1821	0.2254	0.2168	0.2114	0.2436	0.2394	0.2414	-----	-----	0.223	2.57	1.00	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.0657	0.0751	0.0788	0.0700	0.0744	0.0800	0.0799	-----	-----	0.0749	2.82	1.00	1.00	7.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.1275	0.1534	0.1720	0.1461	0.1583	0.1610	0.1601	-----	-----	0.154	2.86	1.00	1.00	9.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.0638	0.0802	0.0754	0.0780	0.0890	0.0846	0.0871	-----	-----	0.0798	3.03	1.00	1.00	11	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.0978	0.1135	0.1224	0.1037	0.1083	0.1136	0.1108	-----	-----	0.110	3.44	1.00	1.00	7.1	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0149	0.0143	0.0135	0.0149	0.0157	0.0164	0.0161	-----	-----	0.0152	2.93	1.00	1.00	6.7		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0356	0.0524	0.0467	0.0396	0.0399	0.0422	0.0406	-----	-----	0.0425	3.65	1.00	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.1155	0.0795	0.0919	0.1445	0.1541	0.1658	0.1661	-----	-----	0.131	3.18	1.00	1.00	27		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0311	0.0351	0.0354	0.0307	0.0317	0.0330	0.0320	-----	-----	0.0328	3.06	1.00	1.00	5.8	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.2469	0.3176	0.3622	0.2749	0.3052	0.2952	0.2982	-----	-----	0.300	3.25	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0104	0.0107	0.0131	0.0110	0.0116	0.0123	0.0117	-----	-----	0.0116	3.51	0.999	1.00	7.9		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.0616	0.0717	0.0978	0.0874	0.1069	0.1004	0.1051	-----	-----	0.0902	3.92	0.999	0.999	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.2078	0.2004	0.2169	0.2423	0.2670	0.2803	0.2755	-----	-----	0.242	4.07	1.00	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.1078	0.1308	0.1300	0.1233	0.1388	0.1394	0.1393	-----	-----	0.130	3.03	1.00	1.00	8.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0924	0.0994	0.0858	0.0874	0.0916	0.0953	0.0935	-----	-----	0.0922	3.35	1.00	1.00	5.0	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.2003	0.2079	0.2005	0.2214	0.2405	0.2629	0.2591	0.1936	-----	0.223	3.68	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.1536	0.1695	0.1455	0.1676	0.1863	0.1851	0.1831	-----	-----	0.170	4.03	1.00	1.00	9.4	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.0896	0.1053	0.1133	0.1081	0.1163	0.1140	0.1171	-----	-----	0.109	3.68	1.00	1.00	8.8	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.0281	0.0301	0.0274	0.0320	0.0347	0.0358	0.0359	-----	-----	0.0320	4.07	1.00	1.00	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.1520	0.1620	0.1487	0.1683	0.1847	0.1856	0.1873	-----	-----	0.170	4.44	1.00	1.00	9.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.0693	0.0780	0.0836	0.0773	0.0801	0.0806	0.0785	-----	-----	0.0782	4.59	1.00	1.00	5.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.1174	0.1358	0.1299	0.1382	0.1554	0.1544	0.1592	-----	-----	0.142	4.45	1.00	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.0961	0.1118	0.1007	0.1024	0.1050	0.1093	0.1139	-----	-----	0.106	4.46	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0017	0.0019	0.0015	0.0018	0.0019	0.0019	0.0018	-----	-----	0.00184	5.51	0.999	1.00	8.8		1000.	250.0	100.0	2500.	5000.	12500	25000		
1,1-Dichloropropene	1	0	Avg	0.1124	0.1274	0.1285	0.1322	0.1513	0.1459	0.1468	-----	-----	0.135	4.85	1.00	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.1846	0.2067	0.1844	0.2019	0.2151	0.2172	0.2143	-----	-----	0.203	4.64	1.00	1.00	6.9	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2853	0.2984	0.3066	0.2871	0.2846	0.2843	0.2871	0.3007	0.3059	0.293	4.73	-1	-1	3.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.0916	0.1041	0.0956	0.1123	0.1333	0.1283	0.1316	-----	-----	0.114	4.81	1.00	1.00	15	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1421	0.1450	0.1456	0.1384	0.1384	0.1355	0.1395	0.1500	0.1508	0.143	4.93	-1	-1	3.8		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.1443	0.1647	0.1592	0.1544	0.1564	0.1693	0.1744	-----	-----	0.160	4.98	1.00	1.00	6.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Qua	0.0475	0.0679	0.0319	0.0508	0.0573	0.0612	0.0508	-----	-----	0.0525	4.44	0.990	0.998	22	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.1547	0.1806	0.1692	0.1744	0.1971	0.1941	0.1940	-----	-----	0.181	4.76	1.00	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.1479	0.1710	0.1701	0.1679	0.1891	0.1811	0.1826	-----	-----	0.173	4.87	1.00	1.00	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.2054	0.2284	0.1995	0.2362	0.2575	0.2711	0.2650	-----	-----	0.238	4.06	1.00	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.1460	0.1646	0.1635	0.1612	0.1685	0.1763	0.1760	-----	-----	0.165	5.59	1.00	1.00	6.3	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.78

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101501 0046

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M159203.D	CAL @ 20 PPB	09/08/22 20:40	2	6M159201.D	CAL @ 5 PPB	09/08/22 19:56
3	6M159202.D	CAL @ 2 PPB	09/08/22 20:18	4	6M159204.D	CAL @ 50 PPB	09/08/22 21:02
5	6M159207.D	CAL @100 PPB	09/08/22 22:07	6	6M159206.D	CAL @ 250 PPB	09/08/22 21:46
7	6M159205.D	CAL @500 PPB	09/08/22 21:24	8	6M159200.D	CAL @ 1 PPB	09/08/22 19:34
9	6M159199.D	CAL @ 0.5 PPB	09/08/22 19:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Qua	0.1110	0.1123	0.1136	0.1415	0.1711	0.1657	0.1800	-----	-----	0.142	5.45	0.999	1.00	21	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.0908	0.0983	0.0868	0.0941	0.0946	0.0999	0.0986	-----	-----	0.0948	5.53	1.00	1.00	5.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.0889	0.1021	0.1017	0.0987	0.1075	0.1095	0.1139	-----	-----	0.103	5.45	1.00	1.00	7.9	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.1137	0.1358	0.1306	0.1258	0.1400	0.1390	0.1423	-----	-----	0.132	5.33	1.00	1.00	7.6	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.3611	0.3925	0.3810	0.4079	0.4424	0.4598	0.4810	0.4403	-----	0.421	4.98	0.999	1.00	9.9	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.1782	0.1769	0.1652	0.2039	0.2229	0.2373	0.2405	-----	-----	0.204	5.02	1.00	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.1799	0.1890	0.1773	0.1987	0.2162	0.2419	0.2395	-----	-----	0.206	4.98	0.999	0.999	13	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.0898	0.0909	0.0742	0.1046	0.1079	0.1162	0.1047	-----	-----	0.0984	5.48	0.997	0.999	14	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.1516	0.1740	0.1725	0.1654	0.1696	0.1775	0.1705	-----	-----	0.169	6.45	1.00	1.00	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0000	0.0005	0.0010	0.0002	0.0002	0.0002	0.0002	-----	-----	0.000370	5.74	0.992	0.999	90		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.1684	0.1793	0.1703	0.1942	0.2087	0.2207	0.2134	-----	-----	0.194	5.83	1.00	1.00	11	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.1638	0.1662	0.1913	0.1864	0.1938	0.2054	0.1977	-----	-----	0.186	6.11	1.00	1.00	8.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.0884	0.0917	0.0793	0.1039	0.1119	0.1208	0.1132	-----	-----	0.101	6.14	0.999	0.999	15	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1186	0.1261	0.1294	0.1263	0.1243	0.1283	0.1208	-----	-----	0.125	6.22	0.999	1.00	3.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.1290	0.1379	0.1308	0.1365	0.1376	0.1427	0.1360	0.1375	0.1375	0.136	6.52	0.999	1.00	3.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.1905	0.1971	0.2029	0.2000	0.2068	0.2128	0.2061	-----	-----	0.202	6.31	1.00	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.0948	0.0937	0.1214	0.1134	0.1174	0.1271	0.1162	-----	-----	0.112	5.89	0.998	0.999	12	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0764	0.0860	0.0830	0.0819	0.0902	0.0941	0.0859	-----	-----	0.0854	6.32	0.998	0.999	6.7	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.1068	0.1242	0.1235	0.1231	0.1320	0.1286	0.1288	-----	-----	0.124	6.32	1.00	1.00	6.6	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.1313	1.1066	1.0896	1.1431	1.1298	1.1354	1.1148	1.0965	1.0785	1.11	5.98	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.2753	0.3239	0.3292	0.3172	0.3377	0.3382	0.3440	0.3789	-----	0.331	6.02	1.00	1.00	8.8	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.1336	0.1450	0.1401	0.1447	0.1493	0.1549	0.1549	-----	-----	0.146	6.81	1.00	1.00	5.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.3417	0.3681	0.3913	0.3792	0.3956	0.4014	0.4008	-----	-----	0.383	6.78	1.00	1.00	5.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.2463	0.2244	0.2643	0.2971	0.3412	0.3791	0.3666	-----	-----	0.303	7.01	0.999	0.999	20	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.2207	0.2080	0.2073	0.2603	0.2997	0.3206	0.3318	-----	-----	0.264	7.13	0.999	1.00	20	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.1718	0.1911	0.2078	0.1846	0.1907	0.2058	0.1962	-----	-----	0.193	7.23	0.999	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.2109	0.2088	0.2586	0.2272	0.2600	0.2805	0.3006	0.2022	-----	0.244	6.82	0.998	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.2530	0.2677	0.2884	0.2571	0.2638	0.2751	0.2623	-----	-----	0.267	7.44	0.999	1.00	4.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7290	0.7207	0.7178	0.7384	0.7458	0.7656	0.7511	0.7143	0.7203	0.734	7.39	-1	-1	2.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	0.4867	0.4789	0.4949	0.5898	0.6391	0.7206	0.7488	-----	-----	0.594	7.10	0.999	1.00	19	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.2845	0.2864	0.2826	0.3471	0.3770	0.4071	0.4313	0.3054	0.2706	0.332	6.87	0.999	1.00	18	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.2904	0.3123	0.2947	0.3468	0.3756	0.4168	0.4363	0.3385	-----	0.351	7.10	0.999	1.00	15	0.30 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.0978	0.1105	0.1058	0.1108	0.1179	0.1262	0.1283	-----	-----	0.114	7.46	1.00	1.00	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	0.4133	0.4467	0.4270	0.4749	0.4841	0.5064	0.5353	-----	-----	0.470	8.01	0.999	1.00	9.3	0.60 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.4223	0.4763	0.5109	0.4710	0.4798	0.4959	0.5104	-----	-----	0.481	8.06	1.00	1.00	6.3	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.4011	0.4474	0.4402	0.4499	0.4574	0.4766	0.4855	-----	-----	0.451	8.29	1.00	1.00	6.1	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	0.7115	0.7223	0.6889	0.8675	0.9665	0.9940	1.0263	0.6325	-----	0.826	7.29	1.00	1.00	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0090	0.0137	0.0133	0.0097	0.0103	0.0122	0.0114	-----	-----	0.0114	7.36	0.998	0.998	16		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Qua	0.2214	0.2283	0.2002	0.2825	0.3314	0.3394	0.3601	-----	-----	0.281	7.46	0.999	1.00	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.2897	0.3149	0.3190	0.3130	0.3232	0.3526	0.3632	-----	-----	0.325	7.48	0.999	1.00	7.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	0.4839	0.5077	0.5104	0.5585	0.5829	0.6326	0.6710	-----	-----	0.564	7.59	0.999	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Avg Rsd: 12.78

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note:
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101501 0047

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M159203.D	CAL @ 20 PPB	09/08/22 20:40	2	6M159201.D	CAL @ 5 PPB	09/08/22 19:56
3	6M159202.D	CAL @ 2 PPB	09/08/22 20:18	4	6M159204.D	CAL @ 50 PPB	09/08/22 21:02
5	6M159207.D	CAL @100 PPB	09/08/22 22:07	6	6M159206.D	CAL @ 250 PPB	09/08/22 21:46
7	6M159205.D	CAL @500 PPB	09/08/22 21:24	8	6M159200.D	CAL @ 1 PPB	09/08/22 19:34
9	6M159199.D	CAL @ 0.5 PPB	09/08/22 19:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Qua	0.7355	0.7261	0.6713	0.8995	0.9829	1.0322	1.1744	-----	-----	0.889	7.57	0.997	1.00	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	0.4555	0.4779	0.4318	0.5376	0.5651	0.5856	0.6337	-----	-----	0.527	7.65	0.999	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	0.8311	0.8304	0.8198	1.0247	1.1209	1.1355	1.1722	0.7379	-----	0.959	7.52	1.00	1.00	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.4696	0.5098	0.5314	0.5359	0.5700	0.5933	0.6201	-----	-----	0.547	7.49	0.999	1.00	9.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Qua	0.6237	0.5905	0.5519	0.7235	0.7824	0.8482	0.7998	0.4019	-----	0.665	7.60	0.999	0.999	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.1810	0.1777	0.2205	0.2123	0.2357	0.2651	0.2769	-----	-----	0.224	7.60	0.999	1.00	17	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	0.5965	0.5823	0.5378	0.7240	0.8039	0.8272	0.8655	0.5203	-----	0.682	7.80	0.999	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	0.6052	0.5560	0.5696	0.7393	0.7949	0.8320	0.8844	0.5393	-----	0.690	7.82	0.999	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Qua	0.7322	0.6792	0.6151	0.9063	1.0162	1.0418	1.0799	0.4979	-----	0.821	7.93	1.00	1.00	27		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	0.6341	0.5923	0.5463	0.7909	0.8859	0.9235	0.9647	0.5152	-----	0.732	7.99	0.999	1.00	25		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Qua	0.6922	0.6704	0.5831	0.8689	0.9520	0.9975	1.0663	0.4585	-----	0.786	8.23	0.999	1.00	28		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Qua	0.3664	0.3387	0.3418	0.4687	0.5256	0.5661	0.6033	-----	-----	0.459	8.21	0.999	1.00	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Qua	0.4549	0.4413	0.4400	0.6138	0.7289	0.7923	0.8374	-----	-----	0.616	8.68	0.999	1.00	28		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.0706	0.0754	0.0905	0.0761	0.0772	0.0824	0.0778	-----	-----	0.0786	8.73	0.999	1.00	8.0	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Qua	0.0173	0.0172	0.0177	0.0225	0.0285	0.0311	0.0318	-----	-----	0.0238	9.17	0.999	0.999	28		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.1492	0.1333	0.1222	0.1749	0.1895	0.1911	0.2013	-----	-----	0.166	9.31	0.999	1.00	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.2595	0.2641	0.2640	0.3174	0.3250	0.3433	0.3525	-----	-----	0.304	9.23	1.00	1.00	13	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.2445	0.2439	0.2249	0.2868	0.3036	0.3218	0.3262	-----	-----	0.279	9.53	1.00	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	0.6037	0.5517	0.5907	0.7510	0.8253	0.8705	0.8740	0.5330	-----	0.700	9.39	1.00	1.00	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.78
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M160530.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/17/2022 12:44:00 Method: EPA 8260D

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	51.95	50	20	0.1	0.136	0.116	3.90	
Dichlorodifluoromethane	1	0		1.64	31.26	50	20	0.1	0.123	0.077	37.47	C1
Chloromethane	1	0		1.84	44.11	50	20	0.1	0.138	0.121	11.79	
Bromomethane	1	0		2.24	37.82	50	20	0.1	0.129	0.098	24.37	C1
Vinyl Chloride	1	0		1.92	44.82	50	20	0.1	0.144	0.129	10.35	
Chloroethane	1	0		2.33	44.04	50	20	0.1	0.093	0.082	11.92	
Trichlorofluoromethane	1	0		2.56	44.16	50	20	0.1	0.223	0.197	11.67	
Ethyl ether	1	0		2.81	40.50	50	20	0.5	0.075	0.061	18.99	
Furan	1	0		2.85	39.95	50	20	0.5	0.154	0.123	20.10	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.02	59.58	50	20	0.1	0.080	0.095	19.17	
Methylene Chloride	1	0		3.43	46.92	50	20	0.1	0.110	0.103	6.17	
Acrolein	1	0		2.93	250.97	250	20		0.015	0.015	0.39	
Acrylonitrile	1	0		3.64	40.18	50	20		0.042	0.034	19.65	
Iodomethane	1	0		3.17	42.28	50	20		0.131	0.135	15.44	
Acetone	1	0		3.06	203.54	250	20	0.1	0.033	0.027	18.58	
Carbon Disulfide	1	0		3.24	51.14	50	20	0.1	0.300	0.307	2.27	
t-Butyl Alcohol	1	0		3.51	178.88	250	20		0.012	0.008	28.45	C1
n-Hexane	1	0		3.91	68.16	50	20		0.090	0.123	36.33	C1
Di-isopropyl-ether	1	0		4.06	48.39	50	20		0.242	0.234	3.23	
1,1-Dichloroethene	1	0		3.03	53.07	50	20	0.1	0.130	0.138	6.15	
Methyl Acetate	1	0		3.34	40.83	50	20	0.1	0.092	0.075	18.35	
Methyl-t-butyl ether	1	0		3.67	45.50	50	20	0.1	0.223	0.203	9.00	
1,1-Dichloroethane	1	0		4.03	51.41	50	20	0.2	0.170	0.175	2.82	
trans-1,2-Dichloroethene	1	0		3.68	52.65	50	20	0.1	0.109	0.115	5.30	
Ethyl-t-butyl ether	1	0		4.06	46.88	50	20	0.5	0.032	0.030	6.24	
cis-1,2-Dichloroethene	1	0		4.43	50.68	50	20	0.1	0.170	0.172	1.35	
Bromochloromethane	1	0		4.59	48.38	50	20		0.078	0.076	3.25	
2,2-Dichloropropane	1	0		4.45	53.12	50	20		0.142	0.150	6.25	
Ethyl acetate	1	0		4.46	41.95	50	20		0.106	0.089	16.10	
1,4-Dioxane	1	0		5.51	2073.75	2500	20		0.002	0.002	17.05	
1,1-Dichloropropene	1	0		4.85	55.70	50	20		0.135	0.150	11.41	
Chloroform	1	0		4.63	49.01	50	20	0.2	0.203	0.199	1.99	
Dibromofluoromethane	1	0	S	4.73	28.48	75	**		0.293	0.278	5.08	
Cyclohexane	1	0		4.80	58.47	50	20	0.1	0.114	0.133	16.93	
1,2-Dichloroethane-d4	1	0	S	4.93	27.88	75	**		0.143	0.133	7.07	
1,2-Dichloroethane	1	0		4.98	41.17	50	20	0.1	0.160	0.132	17.67	
2-Butanone	1	0		4.43	41.08	50	20	0.1	0.053	0.053	17.83	
1,1,1-Trichloroethane	1	0		4.76	49.64	50	20	0.1	0.181	0.179	0.71	
Carbon Tetrachloride	1	0		4.86	50.14	50	20	0.1	0.173	0.173	0.29	
Vinyl Acetate	1	0		4.06	46.28	50	20		0.238	0.220	7.43	
Bromodichloromethane	1	0		5.59	45.67	50	20	0.2	0.165	0.151	8.66	
Methylcyclohexane	1	0		5.45	59.17	50	20	0.1	0.142	0.186	18.33	
Dibromomethane	1	0		5.52	42.98	50	20		0.095	0.081	14.04	
1,2-Dichloropropane	1	0		5.45	50.85	50	20	0.1	0.103	0.105	1.71	
Trichloroethene	1	0		5.33	49.83	50	20	0.2	0.132	0.132	0.35	
Benzene	1	0		4.98	52.91	50	20	0.5	0.421	0.445	5.83	
tert-Amyl methyl ether	1	0		5.02	50.71	50	20		0.204	0.206	1.41	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.97	45.62	50	20	0.5	0.206	0.188	8.76	
Methyl methacrylate	1	0		5.48	46.23	50	20	0.5	0.098	0.091	7.53	
Dibromochloromethane	1	0		6.44	48.48	50	20	0.1	0.169	0.164	3.04	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M160530.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/17/2022 12:44:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.73	55.59	50	20		0.000	0.000	11.19	
cis-1,3-Dichloropropene	1	0		5.82	54.18	50	20	0.2	0.194	0.210	8.35	
trans-1,3-Dichloropropene	1	0		6.11	51.13	50	20	0.1	0.186	0.191	2.26	
Ethyl methacrylate	1	0		6.13	48.19	50	20	0.5	0.101	0.098	3.63	
1,1,2-Trichloroethane	1	0		6.21	52.23	50	20	0.1	0.125	0.130	4.46	
1,2-Dibromoethane	1	0		6.52	50.12	50	20	0.1	0.136	0.137	0.24	
1,3-Dichloropropane	1	0		6.31	52.15	50	20		0.202	0.211	4.31	
4-Methyl-2-Pentanone	1	0		5.89	44.04	50	20	0.1	0.112	0.099	11.92	
2-Hexanone	1	0		6.32	43.23	50	20	0.1	0.085	0.074	13.54	
Tetrachloroethene	1	0		6.32	57.56	50	20	0.2	0.124	0.143	15.12	
Toluene-d8	1	0	S	5.98	32.81	75	**		1.114	1.218	9.37	
Toluene	1	0		6.02	56.53	50	20	0.4	0.331	0.374	13.06	
1,1,1,2-Tetrachloroethane	1	0		6.81	51.47	50	20		0.146	0.150	2.94	
Chlorobenzene	1	0		6.78	55.60	50	20	0.5	0.383	0.426	11.21	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	58.92	50	20	0.5	0.303	0.357	17.85	
n-Amyl acetate	1	0		7.13	58.19	50	20	0.5	0.264	0.307	16.38	
Bromoform	1	0		7.23	52.58	50	20	0.1	0.193	0.203	5.17	
Ethylbenzene	1	0		6.81	65.89	50	20	0.1	0.244	0.321	31.78	C1
1,1,2,2-Tetrachloroethane	1	0		7.44	55.69	50	20	0.1	0.267	0.297	11.39	
Bromofluorobenzene	1	0	S	7.39	30.76	75	**		0.734	0.752	2.54	
Styrene	1	0		7.10	59.79	50	20	0.3	0.594	0.711	19.59	
m&p-Xylenes	1	0		6.87	145.94	100	20	0.1	0.332	0.485	45.94	C1
o-Xylene	1	0		7.10	67.47	50	20	0.3	0.351	0.474	34.94	C1
trans-1,4-Dichloro-2-butene	1	0		7.46	58.81	50	20		0.114	0.134	17.62	
1,3-Dichlorobenzene	1	0		8.01	64.52	50	20	0.6	0.470	0.606	29.04	C1
1,4-Dichlorobenzene	1	0		8.06	59.71	50	20	0.5	0.481	0.574	19.42	
1,2-Dichlorobenzene	1	0		8.29	59.60	50	20	0.4	0.451	0.538	19.21	
Isopropylbenzene	1	0		7.29	72.41	50	20	0.1	0.826	1.197	44.81	C1
Cyclohexanone	1	0		7.36	260.90	250	20		0.011	0.012	4.36	
Camphene	1	0		7.46	66.99	50	20		0.281	0.430	33.98	C1
1,2,3-Trichloropropane	1	0		7.48	57.62	50	20		0.325	0.375	15.23	
2-Chlorotoluene	1	0		7.59	67.60	50	20		0.564	0.762	35.20	C1
p-Ethyltoluene	1	0		7.57	67.85	50	20		0.889	1.269	35.70	C1
4-Chlorotoluene	1	0		7.64	71.10	50	20		0.527	0.749	42.20	C1
n-Propylbenzene	1	0		7.51	76.58	50	20		0.959	1.469	53.16	C1
Bromobenzene	1	0		7.49	58.63	50	20		0.547	0.642	17.25	
1,3,5-Trimethylbenzene	1	0		7.60	59.42	50	20		0.665	0.997	18.83	
Butyl methacrylate	1	0		7.60	56.38	50	20	0.5	0.224	0.253	12.76	
t-Butylbenzene	1	0		7.80	70.65	50	20		0.682	0.964	41.30	C1
1,2,4-Trimethylbenzene	1	0		7.82	71.93	50	20		0.690	0.993	43.85	C1
sec-Butylbenzene	1	0		7.92	64.34	50	20		0.821	1.287	28.69	C1
4-Isopropyltoluene	1	0		7.99	58.88	50	20		0.732	1.032	17.76	
n-Butylbenzene	1	0		8.23	67.32	50	20		0.786	1.261	34.64	C1
p-Diethylbenzene	1	0		8.21	59.43	50	20		0.459	0.623	18.85	
1,2,4,5-Tetramethylbenzene	1	0		8.68	50.73	50	20		0.616	0.739	1.45	
1,2-Dibromo-3-Chloropropane	1	0		8.73	44.14	50	20	0.05	0.079	0.069	11.72	
Camphor	1	0		9.17	405.39	500	20		0.024	0.024	18.92	
Hexachlorobutadiene	1	0		9.31	65.98	50	20		0.166	0.219	31.96	C1
1,2,4-Trichlorobenzene	1	0		9.23	59.29	50	20	0.2	0.304	0.360	18.58	
1,2,3-Trichlorobenzene	1	0		9.53	58.44	50	20		0.279	0.326	16.89	
Naphthalene	1	0		9.39	45.71	50	20		0.700	0.768	8.57	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

2101501 0050

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M159203.D Method: EPA 8260D

Analysis Date/Time: 09/08/22 20:40

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	487131	5.12	416366	6.76	284688	8.04								
Eval File Area Limit:	243566-974262		208183-832732		142344-569376									
Eval File Rt Limit:	4.62-5.62		6.26-7.26		7.54-8.54									

Data File	Sample#						
6M159199.D	CAL @ 0.5 PPB	440050	5.12	398764	6.76	259483	8.04
6M159200.D	CAL @ 1 PPB	431178	5.12	383517	6.76	256376	8.04
6M159201.D	CAL @ 5 PPB	414385	5.12	361393	6.76	244618	8.04
6M159202.D	CAL @ 2 PPB	449355	5.12	393635	6.76	262786	8.04
6M159203.D	CAL @ 20 PPB	487131	5.12	416366	6.76	284688	8.04
6M159204.D	CAL @ 50 PPB	504474	5.12	424979	6.76	288993	8.04
6M159205.D	CAL @500 PPB	473848	5.12	440720	6.76	278459	8.04
6M159206.D	CAL @ 250 PPB	500907	5.12	443229	6.76	289197	8.04
6M159207.D	CAL @100 PPB	482454	5.12	417448	6.76	280407	8.04
6M159210.D	ICV	510534	5.12	433179	6.76	292207	8.04

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101501 0051

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M160530.D Method: EPA 8260D

Analysis Date/Time: 10/17/22 12:44

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	914315	5.12	708103	6.76	400022	8.04								
Eval File Area Limit:	457158-1828630		354052-1416206		200011-800044									
Eval File Rt Limit:	4.62-5.62		6.26-7.26		7.54-8.54									

Data File	Sample#						
6M160529.D	50 PPB	922553	5.12	706219	6.76	406385	8.04
6M160535.D	DAILY BLANK	830845	5.12	685404	6.76	358898	8.04
6M160536.D	AD33922-001	799659	5.12	672971	6.76	353305	8.04
6M160537.D	AD33922-003	902235	5.12	752131	6.76	389730	8.04
6M160538.D	AD33895-002	882557	5.12	701844	6.76	368998	8.04
6M160539.D	AD33914-004	911679	5.12	814995	6.76	436887	8.04
6M160540.D	AD33922-001(MS)	925244	5.12	753748	6.76	410940	8.04
6M160541.D	MBS105005	909575	5.12	717903	6.76	402565	8.04
6M160542.D	AD33922-001(MSD)	1003815	5.12	797050	6.76	452671	8.04
6M160543.D	JUG-2	884147	5.12	736439	6.76	387629	8.04
6M160544.D	AD33860-001	918780	5.12	774162	6.76	408062	8.04
6M160545.D	AD33922-005	916791	5.12	764867	6.76	397029	8.04
6M160546.D	AD33910-001	904791	5.12	754575	6.76	403184	8.04
6M160547.D	AD33910-002	888440	5.12	743491	6.76	397556	8.04
6M160548.D	AD33910-003	868784	5.12	739517	6.76	387461	8.04
6M160549.D	AD33910-004	897348	5.12	752618	6.76	403792	8.04
6M160550.D	AD33900-001	930329	5.12	772570	6.76	403812	8.04
6M160551.D	AD33923-001	879000	5.12	743413	6.76	386887	8.04
6M160552.D	AD33908-004	869628	5.12	731264	6.76	383335	8.04
6M160553.D	AD33908-005	883886	5.12	749857	6.76	392615	8.04
6M160554.D	AD33908-006	879682	5.12	740710	6.76	391369	8.04
6M160555.D	AD33911-002	891625	5.12	751561	6.76	397628	8.04
6M160556.D	AD33911-005	857549	5.12	716468	6.76	382383	8.04
6M160557.D	AD33894-003	869002	5.12	737129	6.76	382558	8.04
6M160558.D	AD33915-006	898740	5.12	749861	6.76	440060	8.04
6M160559.D	AD33923-005	869861	5.12	737485	6.76	391156	8.04
6M160560.D	AD33923-003	883177	5.12	749590	6.76	394059	8.04

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33915-001(5X)
Client Id: SB-61SS (10')
Data File: 9M116504.D
Analysis Date: 10/25/22 17:40
Date Rec/Extracted: 10/15/22-10/25/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.18	U	50-32-8	Benzo[a]pyrene	0.18	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.18	U	205-99-2	Benzo[b]fluoranthene	0.18	U
122-66-7	1,2-Diphenylhydrazine	0.18	U	191-24-2	Benzo[g,h,i]perylene	0.18	U
123-91-1	1,4-Dioxane	0.052	U	207-08-9	Benzo[k]fluoranthene	0.18	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.18	U	100-51-6	Benzyl alcohol	0.18	U
95-95-4	2,4,5-Trichlorophenol	0.18	U	111-91-1	bis(2-Chloroethoxy)methan	0.18	U
88-06-2	2,4,6-Trichlorophenol	0.18	U	111-44-4	bis(2-Chloroethyl)ether	0.058	U
120-83-2	2,4-Dichlorophenol	0.059	U	108-60-1	bis(2-chloroisopropyl)ether	0.18	U
105-67-9	2,4-Dimethylphenol	0.10	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.7	U
51-28-5	2,4-Dinitrophenol	0.92	U	85-68-7	Butylbenzylphthalate	0.18	U
121-14-2	2,4-Dinitrotoluene	0.18	U	105-60-2	Caprolactam	0.18	U
606-20-2	2,6-Dinitrotoluene	0.18	U	86-74-8	Carbazole	0.18	U
91-58-7	2-Chloronaphthalene	0.18	U	218-01-9	Chrysene	0.18	U
95-57-8	2-Chlorophenol	0.18	U	53-70-3	Dibenzo[a,h]anthracene	0.18	U
91-57-6	**2-Methylnaphthalene**	**0.18**	**0.19**	**132-64-9**	**Dibenzofuran**	**0.048**	**0.12**
95-48-7	2-Methylphenol	0.057	U	84-66-2	Diethylphthalate	3.2	U
88-74-4	2-Nitroaniline	0.18	U	131-11-3	Dimethylphthalate	0.18	U
88-75-5	2-Nitrophenol	0.18	U	84-74-2	Di-n-butylphthalate	4.4	U
106-44-5	3&4-Methylphenol	0.060	U	117-84-0	Di-n-octylphthalate	0.18	U
91-94-1	3,3'-Dichlorobenzidine	0.18	U	206-44-0	Fluoranthene	0.18	U
99-09-2	3-Nitroaniline	0.18	U	86-73-7	Fluorene	0.18	U
534-52-1	4,6-Dinitro-2-methylphenol	0.92	U	118-74-1	Hexachlorobenzene	0.18	U
101-55-3	4-Bromophenyl-phenylether	0.18	U	87-68-3	Hexachlorobutadiene	0.18	U
59-50-7	4-Chloro-3-methylphenol	0.18	U	77-47-4	Hexachlorocyclopentadiene	0.61	U
106-47-8	4-Chloroaniline	0.062	U	67-72-1	Hexachloroethane	0.18	U
7005-72-3	4-Chlorophenyl-phenylether	0.18	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.18	U
100-01-6	4-Nitroaniline	0.18	U	78-59-1	Isophorone	0.18	U
100-02-7	4-Nitrophenol	0.18	U	91-20-3	Naphthalene	0.046	U
83-32-9	Acenaphthene	0.18	U	98-95-3	Nitrobenzene	0.18	U
208-96-8	Acenaphthylene	0.18	U	62-75-9	N-Nitrosodimethylamine	0.18	U
98-86-2	Acetophenone	0.18	U	621-64-7	N-Nitroso-di-n-propylamine	0.047	U
120-12-7	Anthracene	0.18	U	86-30-6	n-Nitrosodiphenylamine	0.18	U
1912-24-9	Atrazine	0.18	U	87-86-5	Pentachlorophenol	0.92	U
100-52-7	Benzaldehyde	0.18	U	**85-01-8**	**Phenanthrene**	**0.18**	**0.36**
92-87-5	Benzidine	0.53	U	108-95-2	Phenol	0.18	U
56-55-3	Benzo[a]anthracene	0.18	U	129-00-0	Pyrene	0.18	U

Worksheet #: 662864

Total Target Concentration 0.67

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

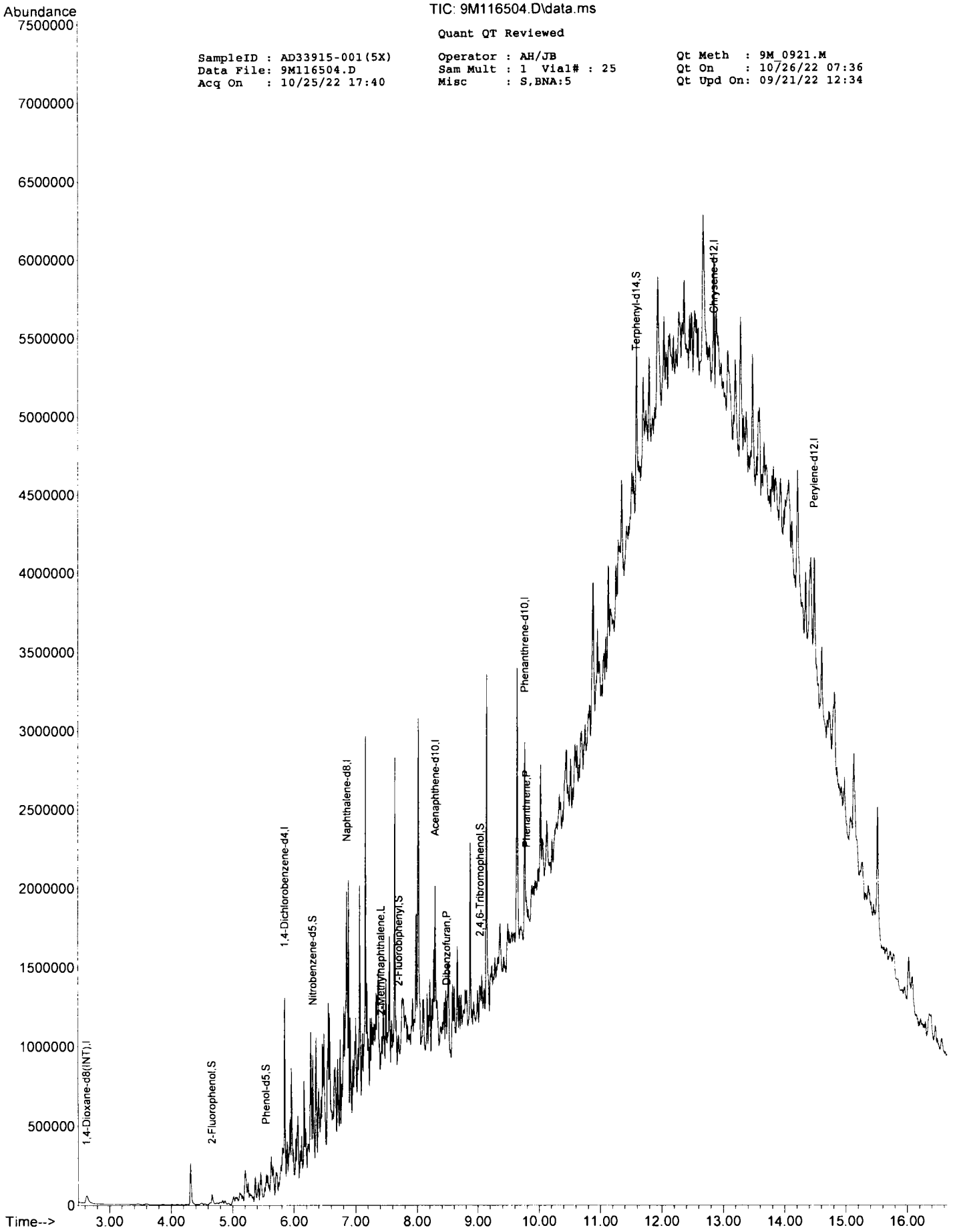
Quantitation Report (QT Reviewed)

SampleID : AD33915-001(5X) Operator : AH/JB Qt Meth : 9M_0921.M
Data File: 9M116504.D Sam Mult : 1 Vial# : 25 Qt On : 10/26/22 07:36
Acq On : 10/25/22 17:40 Misc : S,BNA:5 Qt Upd On: 09/21/22 12:34

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-25-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	57606	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.851	152	97247	40.00	ng	-0.01
31) Naphthalene-d8	6.857	136	371660	40.00	ng	-0.01
50) Acenaphthene-d10	8.292	164	187047	40.00	ng	-0.01
77) Phenanthrene-d10	9.763	188	371339	40.00	ng	-0.01
91) Chrysene-d12	12.845	240	376049	40.00	ng	0.01
103) Perylene-d12	14.480	264	353698	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.663	112	31390	9.82	ng	0.00
Spiked Amount 100.000			Recovery = 9.82%			
16) Phenol-d5	5.545	99	42327	11.14	ng	0.00
Spiked Amount 100.000			Recovery = 11.14%			
32) Nitrobenzene-d5	6.304	128	11097	7.52	ng	0.00
Spiked Amount 50.000			Recovery = 15.04%			
55) 2-Fluorobiphenyl	7.698	172	39832	5.89	ng	-0.01
Spiked Amount 50.000			Recovery = 11.78%			
80) 2,4,6-Tribromophenol	9.039	330	10780	12.70	ng	-0.01
Spiked Amount 100.000			Recovery = 12.70%			
94) Terphenyl-d14	11.580	244	46060	6.55	ng	0.00
Spiked Amount 50.000			Recovery = 13.10%			
Target Compounds						Qvalue
46) 2-Methylnaphthalene	7.410	142	13434m	2.1156	ng	
68) Dibenzofuran	8.481	168	11132m	1.3227	ng	
86) Phenanthrene	9.792	178	38255m	3.9513	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 9M116504.D\data.ms
Quant QT Reviewed
SampleID : AD33915-001(5X)
Data File: 9M116504.D
Acq On : 10/25/22 17:40
Operator : AH/JB
Sam Mult : 1 Vial# : 25
Misc : S,BNA:5
Qt Meth : 9M_0921.M
Qt On : 10/26/22 07:36
Qt Upd On: 09/21/22 12:34
Abundance
Time-->
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Methylnaphthalene,L
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Phenanthrene,P
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33915-002(5X)
Client Id: SB-61SS (2')
Data File: 9M116503.D
Analysis Date: 10/25/22 17:17
Date Rec/Extracted: 10/15/22-10/25/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.19	U	**50-32-8**	**Benzo[a]pyrene**	**0.19**	**1.1**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.19	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.19**	**1.6**
122-66-7	1,2-Diphenylhydrazine	0.19	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.19**	**0.72**
123-91-1	1,4-Dioxane	0.053	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.19**	**0.44**
58-90-2	2,3,4,6-Tetrachlorophenol	0.19	U	100-51-6	Benzyl alcohol	0.19	U
95-95-4	2,4,5-Trichlorophenol	0.19	U	111-91-1	bis(2-Chloroethoxy)methan	0.19	U
88-06-2	2,4,6-Trichlorophenol	0.19	U	111-44-4	bis(2-Chloroethyl)ether	0.059	U
120-83-2	2,4-Dichlorophenol	0.060	U	108-60-1	bis(2-chloroisopropyl)ether	0.19	U
105-67-9	2,4-Dimethylphenol	0.10	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.7	U
51-28-5	2,4-Dinitrophenol	0.93	U	85-68-7	Butylbenzylphthalate	0.19	U
121-14-2	2,4-Dinitrotoluene	0.19	U	105-60-2	Caprolactam	0.19	U
606-20-2	2,6-Dinitrotoluene	0.19	U	86-74-8	Carbazole	0.19	U
91-58-7	2-Chloronaphthalene	0.19	U	**218-01-9**	**Chrysene**	**0.19**	**1.1**
95-57-8	2-Chlorophenol	0.19	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.19**	**0.19**
91-57-6	**2-Methylnaphthalene**	**0.19**	**0.28**	**132-64-9**	**Dibenzofuran**	**0.048**	**0.11**
95-48-7	2-Methylphenol	0.058	U	84-66-2	Diethylphthalate	3.3	U
88-74-4	2-Nitroaniline	0.19	U	131-11-3	Dimethylphthalate	0.19	U
88-75-5	2-Nitrophenol	0.19	U	84-74-2	Di-n-butylphthalate	4.4	U
106-44-5	3&4-Methylphenol	0.061	U	117-84-0	Di-n-octylphthalate	0.19	U
91-94-1	3,3'-Dichlorobenzidine	0.19	U	**206-44-0**	**Fluoranthene**	**0.19**	**2.3**
99-09-2	3-Nitroaniline	0.19	U	**86-73-7**	**Fluorene**	**0.19**	**0.23**
534-52-1	4,6-Dinitro-2-methylphenol	0.93	U	118-74-1	Hexachlorobenzene	0.19	U
101-55-3	4-Bromophenyl-phenylether	0.19	U	87-68-3	Hexachlorobutadiene	0.19	U
59-50-7	4-Chloro-3-methylphenol	0.19	U	77-47-4	Hexachlorocyclopentadiene	0.62	U
106-47-8	4-Chloroaniline	0.063	U	67-72-1	Hexachloroethane	0.19	U
7005-72-3	4-Chlorophenyl-phenylether	0.19	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.19**	**0.62**
100-01-6	4-Nitroaniline	0.19	U	78-59-1	Isophorone	0.19	U
100-02-7	4-Nitrophenol	0.19	U	**91-20-3**	**Naphthalene**	**0.046**	**0.11**
83-32-9	**Acenaphthene**	**0.19**	**0.19**	98-95-3	Nitrobenzene	0.19	U
208-96-8	Acenaphthylene	0.19	U	62-75-9	N-Nitrosodimethylamine	0.19	U
98-86-2	Acetophenone	0.19	U	621-64-7	N-Nitroso-di-n-propylamine	0.048	U
120-12-7	**Anthracene**	**0.19**	**0.34**	86-30-6	n-Nitrosodiphenylamine	0.19	U
1912-24-9	Atrazine	0.19	U	87-86-5	Pentachlorophenol	0.93	U
100-52-7	Benzaldehyde	0.19	U	**85-01-8**	**Phenanthrene**	**0.19**	**1.3**
92-87-5	Benzidine	0.53	U	108-95-2	Phenol	0.19	U
56-55-3	**Benzo[a]anthracene**	**0.19**	**1.1**	**129-00-0**	**Pyrene**	**0.19**	**2.0**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

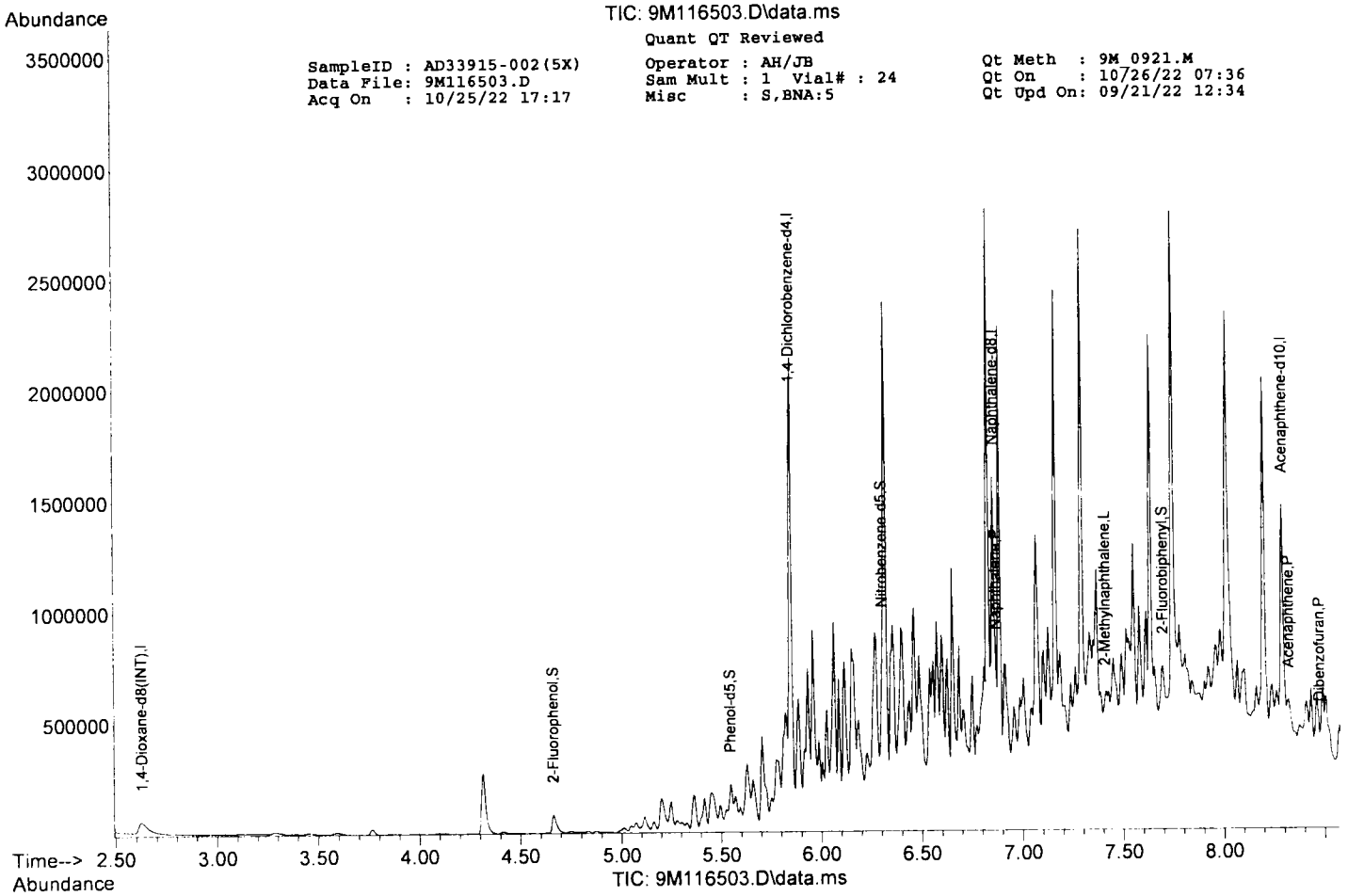
Quantitation Report (QT Reviewed)

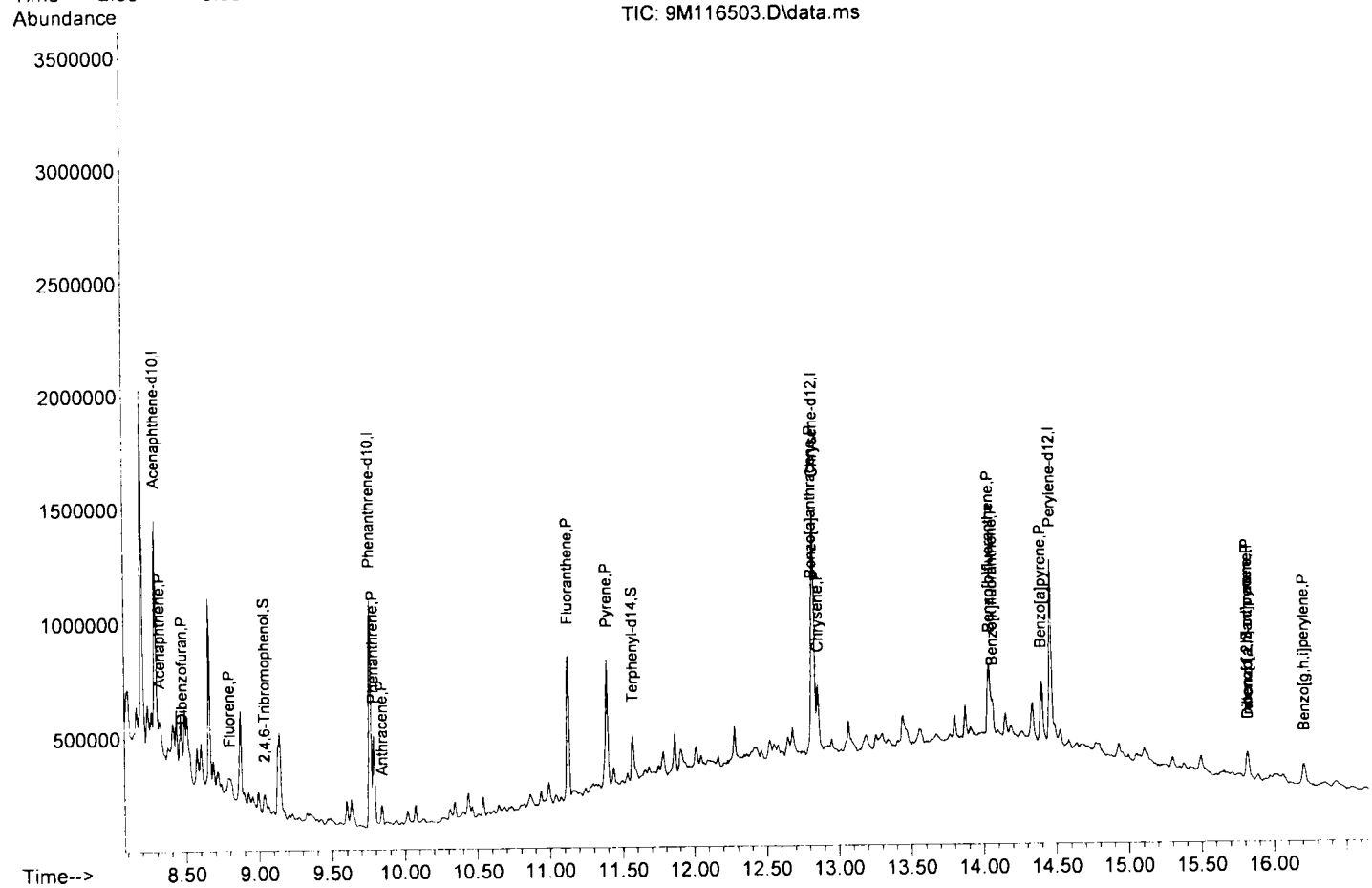
SampleID : AD33915-002(5X) Operator : AH/JB Qt Meth : 9M_0921.M
Data File: 9M116503.D Sam Mult : 1 Vial# : 24 Qt On : 10/26/22 07:36
Acq On : 10/25/22 17:17 Misc : S,BNA:5 Qt Upd On: 09/21/22 12:34

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-25-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	60621	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.845	152	103652	40.00	ng	-0.02
31) Naphthalene-d8	6.857	136	389930	40.00	ng	-0.01
50) Acenaphthene-d10	8.292	164	193695	40.00	ng	-0.01
77) Phenanthrene-d10	9.763	188	384122	40.00	ng	-0.01
91) Chrysene-d12	12.827	240	334917	40.00	ng	0.00
103) Perylene-d12	14.462	264	318683	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.663	112	36060	10.72	ng	0.00
Spiked Amount 100.000			Recovery = 10.72%			
16) Phenol-d5	5.545	99	53442	13.36	ng	0.00
Spiked Amount 100.000			Recovery = 13.36%			
32) Nitrobenzene-d5	6.304	128	11590	7.49	ng	0.00
Spiked Amount 50.000			Recovery = 14.98%			
55) 2-Fluorobiphenyl	7.698	172	48739	6.96	ng	-0.01
Spiked Amount 50.000			Recovery = 13.92%			
80) 2,4,6-Tribromophenol	9.039	330	7729	8.80	ng	-0.01
Spiked Amount 100.000			Recovery = 8.80%			
94) Terphenyl-d14	11.569	244	50750	8.10	ng	-0.01
Spiked Amount 50.000			Recovery = 16.20%			
Target Compounds						Qvalue
41) Naphthalene	6.869	128	11898m	1.1620	ng	
46) 2-Methylnaphthalene	7.410	142	20009m	3.0033	ng	
65) Acenaphthene	8.322	153	12835m	2.0570	ng	
68) Dibenzofuran	8.475	168	9967m	1.1436	ng	
72) Fluorene	8.798	166	17510m	2.4960	ng	
86) Phenanthrene	9.786	178	145263m	14.5046	ng	
87) Anthracene	9.845	178	36796m	3.6209	ng	
90) Fluoranthene	11.127	202	267637m	24.4438	ng	
92) Pyrene	11.392	202	239751m	21.6534	ng	
100) Benzo[a]anthracene	12.816	228	128144m	12.2183	ng	
101) Chrysene	12.857	228	110435m	11.5609	ng	
105) Benzo[b]fluoranthene	14.039	252	159656m	16.8805	ng	
106) Benzo[k]fluoranthene	14.062	252	42713m	4.8013	ng	
107) Benzo[a]pyrene	14.398	252	103247m	11.5724	ng	
108) Indeno[1,2,3-cd]pyrene	15.821	276	62802m	6.7137	ng	
109) Dibenzo[a,h]anthracene	15.821	278	16261m	2.0196	ng	
110) Benzo[g,h,i]perylene	16.209	276	63120m	7.7918	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 9M116503.D\data.ms
Quant QT Reviewed
SampleID : AD33915-002(5X)
Data File: 9M116503.D
Acq On : 10/25/22 17:17
Operator : AH/JB
Sam Mult : 1 Vial# : 24
Misc : S,BNA:5
Qt Meth : 9M_0921.M
Qt On : 10/26/22 07:36
Qt Upd On: 09/21/22 12:34
Abundance
1,4-Dioxane-d8(INT).I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Methylnaphthalene,L
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Time-->


TIC: 9M116503.D\data.ms
Abundance
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Anthracene,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33915-003(10X)
Client Id: SB-65SS (10')
Data File: 9M116500.D
Analysis Date: 10/25/22 16:08
Date Rec/Extracted: 10/15/22-10/25/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 10
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.39	U	**50-32-8**	**Benzo[a]pyrene**	**0.39**	**2.5**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.39	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.39**	**3.3**
122-66-7	1,2-Diphenylhydrazine	0.39	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.39**	**1.5**
123-91-1	1,4-Dioxane	0.11	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.39**	**1.3**
58-90-2	2,3,4,6-Tetrachlorophenol	0.39	U	100-51-6	Benzyl alcohol	0.39	U
95-95-4	2,4,5-Trichlorophenol	0.39	U	111-91-1	bis(2-Chloroethoxy)methan	0.39	U
88-06-2	2,4,6-Trichlorophenol	0.39	U	111-44-4	bis(2-Chloroethyl)ether	0.12	U
120-83-2	2,4-Dichlorophenol	0.13	U	108-60-1	bis(2-chloroisopropyl)ether	0.39	U
105-67-9	2,4-Dimethylphenol	0.22	U	117-81-7	bis(2-Ethylhexyl)phthalate	3.5	U
51-28-5	2,4-Dinitrophenol	1.9	U	85-68-7	Butylbenzylphthalate	0.39	U
121-14-2	2,4-Dinitrotoluene	0.39	U	105-60-2	Caprolactam	0.39	U
606-20-2	2,6-Dinitrotoluene	0.39	U	86-74-8	Carbazole	0.39	U
91-58-7	2-Chloronaphthalene	0.39	U	**218-01-9**	**Chrysene**	**0.39**	**2.3**
95-57-8	2-Chlorophenol	0.39	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.39**	**0.45**
91-57-6	2-Methylnaphthalene	0.39	U	**132-64-9**	**Dibenzofuran**	**0.10**	**0.23**
95-48-7	2-Methylphenol	0.12	U	84-66-2	Diethylphthalate	6.9	U
88-74-4	2-Nitroaniline	0.39	U	131-11-3	Dimethylphthalate	0.39	U
88-75-5	2-Nitrophenol	0.39	U	84-74-2	Di-n-butylphthalate	9.3	U
106-44-5	3&4-Methylphenol	0.13	U	117-84-0	Di-n-octylphthalate	0.39	U
91-94-1	3,3'-Dichlorobenzidine	0.39	U	**206-44-0**	**Fluoranthene**	**0.39**	**4.3**
99-09-2	3-Nitroaniline	0.39	U	86-73-7	Fluorene	0.39	U
534-52-1	4,6-Dinitro-2-methylphenol	1.9	U	118-74-1	Hexachlorobenzene	0.39	U
101-55-3	4-Bromophenyl-phenylether	0.39	U	87-68-3	Hexachlorobutadiene	0.39	U
59-50-7	4-Chloro-3-methylphenol	0.39	U	77-47-4	Hexachlorocyclopentadiene	1.3	U
106-47-8	4-Chloroaniline	0.13	U	67-72-1	Hexachloroethane	0.39	U
7005-72-3	4-Chlorophenyl-phenylether	0.39	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.39**	**1.4**
100-01-6	4-Nitroaniline	0.39	U	78-59-1	Isophorone	0.39	U
100-02-7	4-Nitrophenol	0.39	U	91-20-3	Naphthalene	0.097	U
83-32-9	Acenaphthene	0.39	U	98-95-3	Nitrobenzene	0.39	U
208-96-8	Acenaphthylene	0.39	U	62-75-9	N-Nitrosodimethylamine	0.39	U
98-86-2	Acetophenone	0.39	U	621-64-7	N-Nitroso-di-n-propylamine	0.10	U
120-12-7	**Anthracene**	**0.39**	**0.81**	86-30-6	n-Nitrosodiphenylamine	0.39	U
1912-24-9	Atrazine	0.39	U	87-86-5	Pentachlorophenol	1.9	U
100-52-7	Benzaldehyde	0.39	U	**85-01-8**	**Phenanthrene**	**0.39**	**3.3**
92-87-5	Benzidine	1.1	U	108-95-2	Phenol	0.39	U
56-55-3	**Benzo[a]anthracene**	**0.39**	**2.5**	**129-00-0**	**Pyrene**	**0.39**	**4.0**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

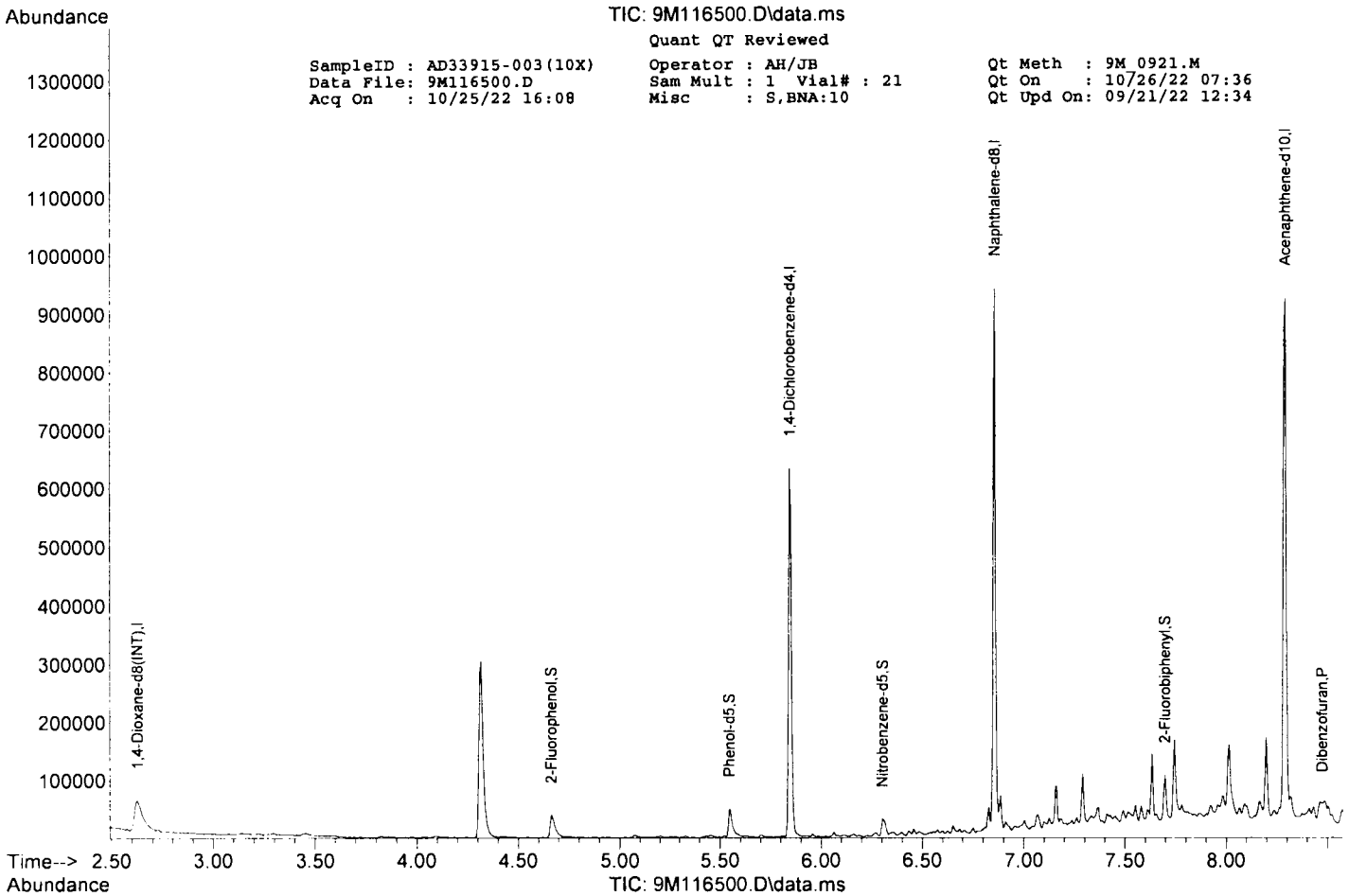
Quantitation Report (QT Reviewed)

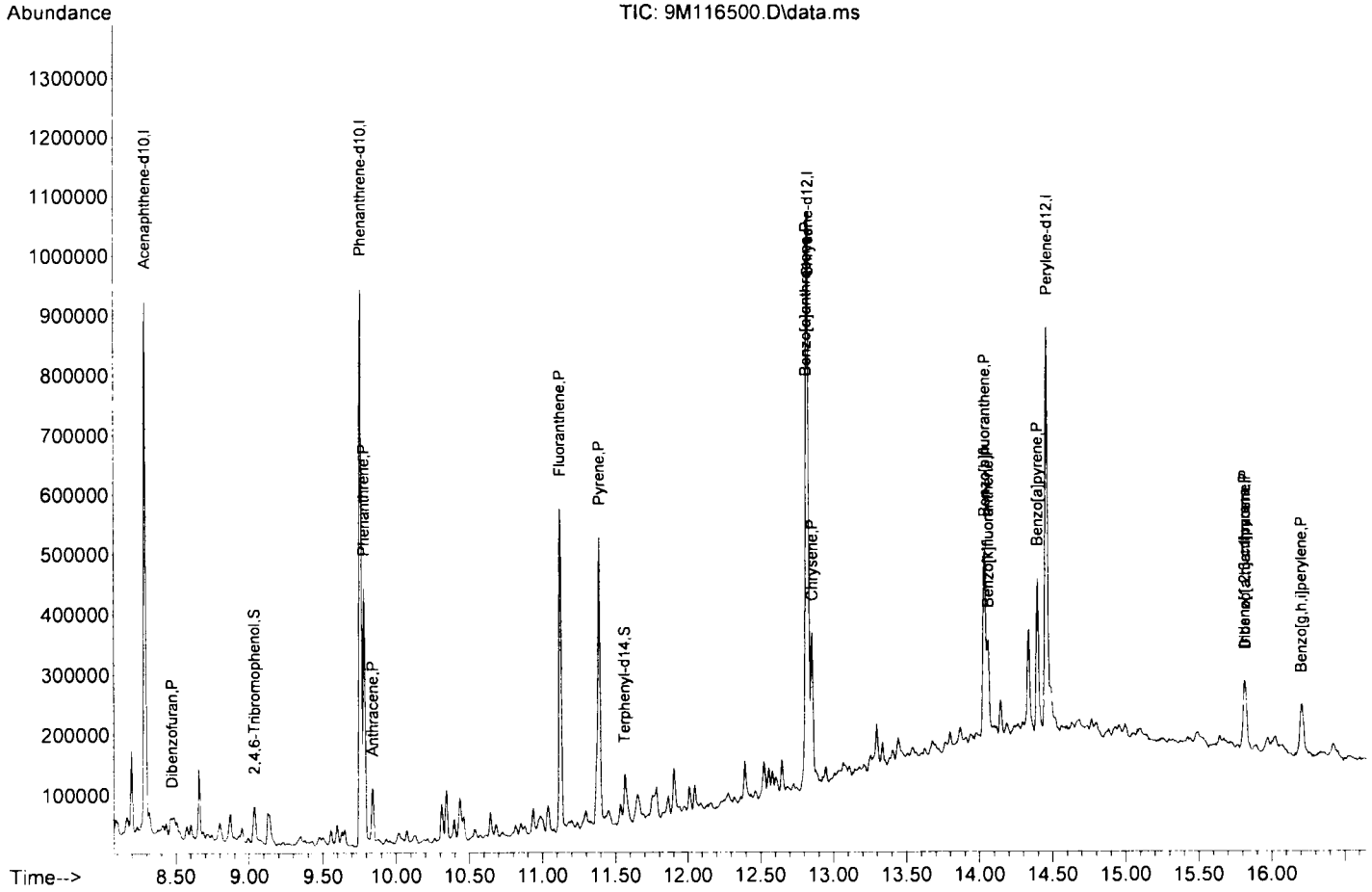
SampleID : AD33915-003(10X) Operator : AH/JB Qt Meth : 9M_0921.M
Data File: 9M116500.D Sam Mult : 1 Vial# : 21 Qt On : 10/26/22 07:36
Acq On : 10/25/22 16:08 Misc : S,BNA:10 Qt Upd On: 09/21/22 12:34

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-25-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	58429	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.845	152	94842	40.00	ng	-0.02
31) Naphthalene-d8	6.857	136	377184	40.00	ng	-0.01
50) Acenaphthene-d10	8.292	164	183167	40.00	ng	-0.01
77) Phenanthrene-d10	9.763	188	353733	40.00	ng	-0.01
91) Chrysene-d12	12.827	240	306720	40.00	ng	0.00
103) Perylene-d12	14.462	264	287468	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.663	112	18144	5.59	ng	0.00
Spiked Amount 100.000			Recovery =	5.59%		
16) Phenol-d5	5.545	99	24408	6.33	ng	0.00
Spiked Amount 100.000			Recovery =	6.33%		
32) Nitrobenzene-d5	6.304	128	4484	3.00	ng	0.00
Spiked Amount 50.000			Recovery =	6.00%		
55) 2-Fluorobiphenyl	7.698	172	21162	3.19	ng	-0.01
Spiked Amount 50.000			Recovery =	6.38%		
80) 2,4,6-Tribromophenol	9.039	330	5980	7.39	ng	-0.01
Spiked Amount 100.000			Recovery =	7.39%		
94) Terphenyl-d14	11.563	244	21666	3.78	ng	-0.02
Spiked Amount 50.000			Recovery =	7.56%		
Target Compounds						Qvalue
68) Dibenzofuran	8.475	168	9768m	1.1852	ng	
86) Phenanthrene	9.786	178	155341m	16.8434	ng	
87) Anthracene	9.845	178	38909m	4.1578	ng	
90) Fluoranthene	11.121	202	223747m	22.1908	ng	
92) Pyrene	11.392	202	207056m	20.4196	ng	
100) Benzo[a]anthracene	12.816	228	125197m	13.0347	ng	
101) Chrysene	12.857	228	103058m	11.7804	ng	
105) Benzo[b]fluoranthene	14.039	252	144976m	16.9928	ng	
106) Benzo[k]fluoranthene	14.062	252	55097m	6.8659	ng	
107) Benzo[a]pyrene	14.398	252	103263m	12.8310	ng	
108) Indeno[1,2,3-cd]pyrene	15.815	276	61641m	7.3051	ng	
109) Dibenzo[a,h]anthracene	15.821	278	16860m	2.3214	ng	
110) Benzo[g,h,i]perylene	16.204	276	55254m	7.5614	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M116500.D\data.ms
Quant QT Reviewed
SampleID : AD33915-003(10X)
Data File: 9M116500.D
Acq On : 10/25/22 16:08
Operator : AH/JB
Sam Mult : 1 Vial# : 21
Misc : S,BNA:10
Qt Meth : 9M_0921.M
Qt On : 10/26/22 07:36
Qt Upd On: 09/21/22 12:34
1.4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Dibenzofuran,P
Time-->


Abundance
TIC: 9M116500.D\data.ms
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Anthracene,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33915-004(10X)
Client Id: SB-66SS (10')
Data File: 9M116501.D
Analysis Date: 10/25/22 16:31
Date Rec/Extracted: 10/15/22-10/25/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 10
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.37	U	**50-32-8**	**Benzo[a]pyrene**	**0.37**	**4.1**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.37	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.37**	**5.6**
122-66-7	1,2-Diphenylhydrazine	0.37	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.37**	**2.5**
123-91-1	1,4-Dioxane	0.11	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.37**	**1.4**
58-90-2	2,3,4,6-Tetrachlorophenol	0.37	U	100-51-6	Benzyl alcohol	0.37	U
95-95-4	2,4,5-Trichlorophenol	0.37	U	111-91-1	bis(2-Chloroethoxy)methan	0.37	U
88-06-2	2,4,6-Trichlorophenol	0.37	U	111-44-4	bis(2-Chloroethyl)ether	0.12	U
120-83-2	2,4-Dichlorophenol	0.12	U	108-60-1	bis(2-chloroisopropyl)ether	0.37	U
105-67-9	2,4-Dimethylphenol	0.21	U	117-81-7	bis(2-Ethylhexyl)phthalate	3.4	U
51-28-5	2,4-Dinitrophenol	1.9	U	85-68-7	Butylbenzylphthalate	0.37	U
121-14-2	2,4-Dinitrotoluene	0.37	U	105-60-2	Caprolactam	0.37	U
606-20-2	2,6-Dinitrotoluene	0.37	U	86-74-8	Carbazole	0.37	U
91-58-7	2-Chloronaphthalene	0.37	U	**218-01-9**	**Chrysene**	**0.37**	**3.7**
95-57-8	2-Chlorophenol	0.37	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.37**	**0.69**
91-57-6	2-Methylnaphthalene	0.37	U	**132-64-9**	**Dibenzofuran**	**0.097**	**0.40**
95-48-7	2-Methylphenol	0.12	U	84-66-2	Diethylphthalate	6.6	U
88-74-4	2-Nitroaniline	0.37	U	131-11-3	Dimethylphthalate	0.37	U
88-75-5	2-Nitrophenol	0.37	U	84-74-2	Di-n-butylphthalate	9.0	U
106-44-5	3&4-Methylphenol	0.12	U	117-84-0	Di-n-octylphthalate	0.37	U
91-94-1	3,3'-Dichlorobenzidine	0.37	U	**206-44-0**	**Fluoranthene**	**0.37**	**7.5**
99-09-2	3-Nitroaniline	0.37	U	**86-73-7**	**Fluorene**	**0.37**	**0.51**
534-52-1	4,6-Dinitro-2-methylphenol	1.9	U	118-74-1	Hexachlorobenzene	0.37	U
101-55-3	4-Bromophenyl-phenylether	0.37	U	87-68-3	Hexachlorobutadiene	0.37	U
59-50-7	4-Chloro-3-methylphenol	0.37	U	77-47-4	Hexachlorocyclopentadiene	1.2	U
106-47-8	4-Chloroaniline	0.13	U	67-72-1	Hexachloroethane	0.37	U
7005-72-3	4-Chlorophenyl-phenylether	0.37	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.37**	**2.2**
100-01-6	4-Nitroaniline	0.37	U	78-59-1	Isophorone	0.37	U
100-02-7	4-Nitrophenol	0.37	U	**91-20-3**	**Naphthalene**	**0.094**	**0.14**
83-32-9	**Acenaphthene**	**0.37**	**0.50**	98-95-3	Nitrobenzene	0.37	U
208-96-8	Acenaphthylene	0.37	U	62-75-9	N-Nitrosodimethylamine	0.37	U
98-86-2	Acetophenone	0.37	U	621-64-7	N-Nitroso-di-n-propylamine	0.096	U
120-12-7	**Anthracene**	**0.37**	**1.6**	86-30-6	n-Nitrosodiphenylamine	0.37	U
1912-24-9	Atrazine	0.37	U	87-86-5	Pentachlorophenol	1.9	U
100-52-7	Benzaldehyde	0.37	U	**85-01-8**	**Phenanthrene**	**0.37**	**5.0**
92-87-5	Benzidine	1.1	U	108-95-2	Phenol	0.37	U
56-55-3	**Benzo[a]anthracene**	**0.37**	**4.3**	**129-00-0**	**Pyrene**	**0.37**	**6.8**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

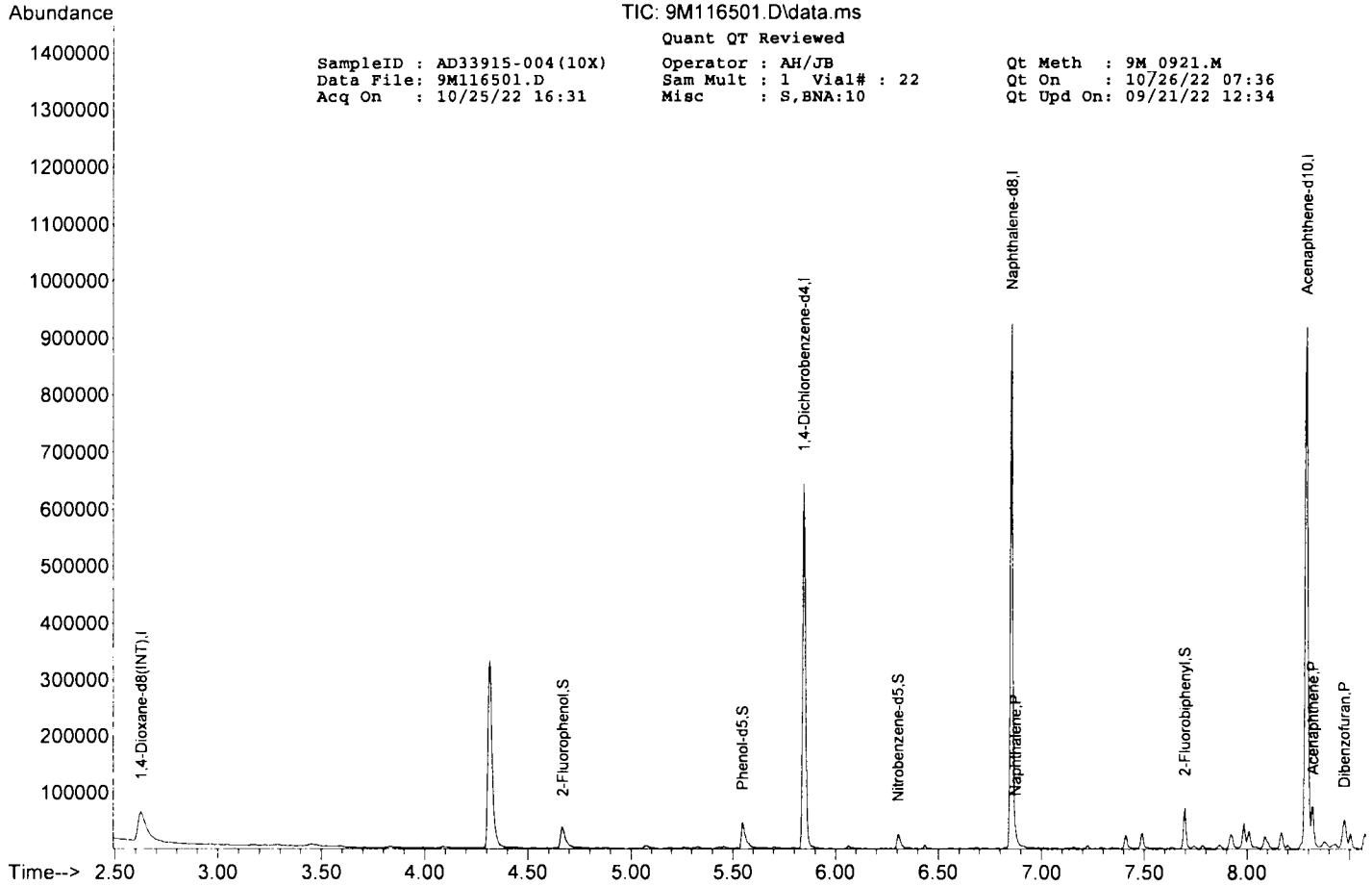
Quantitation Report (QT Reviewed)

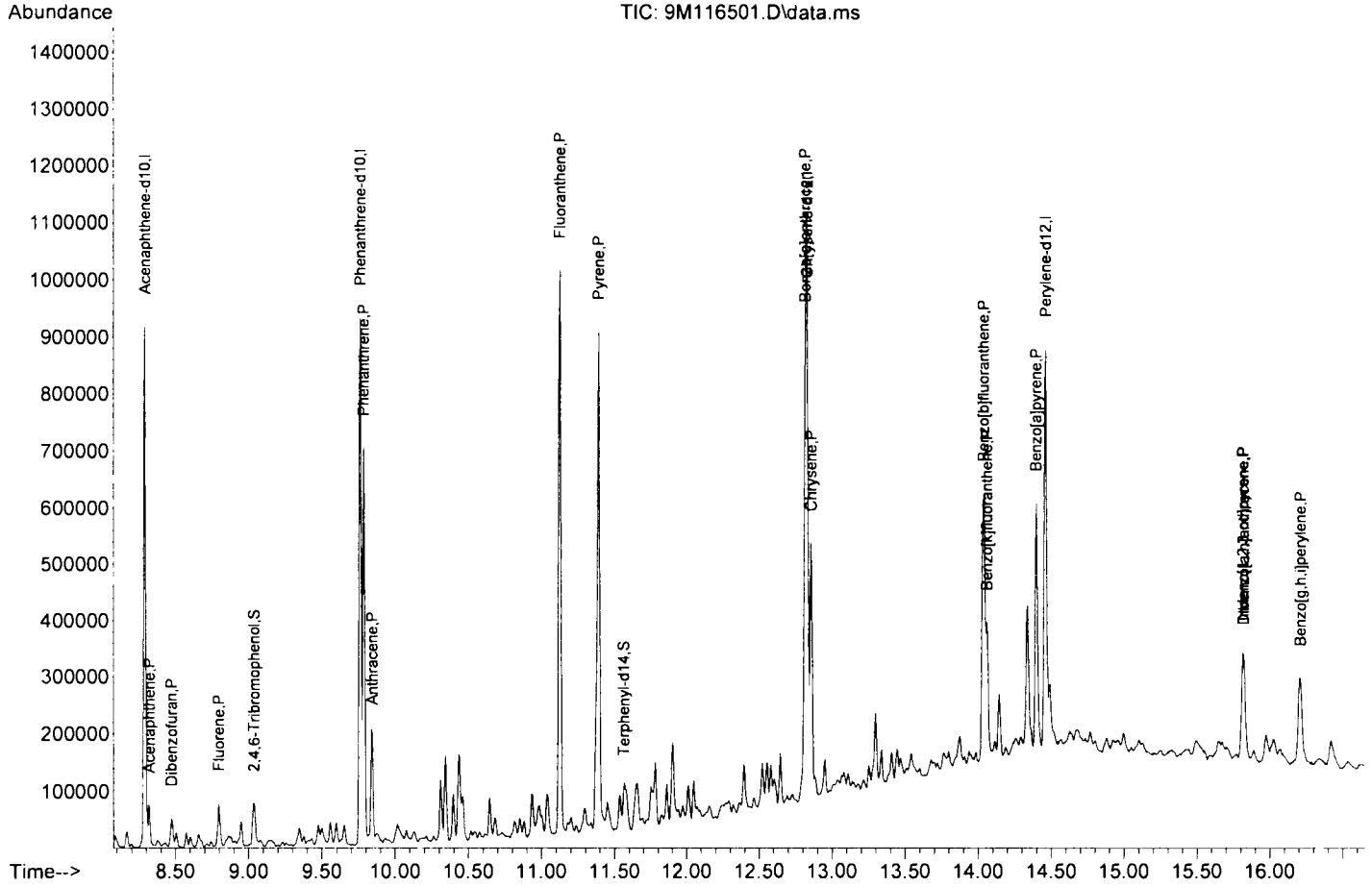
SampleID : AD33915-004(10X) Operator : AH/JB Qt Meth : 9M_0921.M
Data File: 9M116501.D Sam Mult : 1 Vial# : 22 Qt On : 10/26/22 07:36
Acq On : 10/25/22 16:31 Misc : S,BNA:10 Qt Upd On: 09/21/22 12:34

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-25-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.628	96	57771	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.845	152	96052	40.00	ng	-0.02
31) Naphthalene-d8	6.857	136	373490	40.00	ng	-0.01
50) Acenaphthene-d10	8.292	164	184604	40.00	ng	-0.01
77) Phenanthrene-d10	9.763	188	353126	40.00	ng	-0.01
91) Chrysene-d12	12.827	240	301771	40.00	ng	0.00
103) Perylene-d12	14.463	264	285771	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.669	112	17896	5.58	ng	0.00
Spiked Amount 100.000			Recovery =	5.58%		
16) Phenol-d5	5.545	99	23091	6.06	ng	0.00
Spiked Amount 100.000			Recovery =	6.06%		
32) Nitrobenzene-d5	6.304	128	4581	3.09	ng	0.00
Spiked Amount 50.000			Recovery =	6.18%		
55) 2-Fluorobiphenyl	7.698	172	20594	3.08	ng	-0.01
Spiked Amount 50.000			Recovery =	6.16%		
80) 2,4,6-Tribromophenol	9.039	330	5551	6.87	ng	-0.01
Spiked Amount 100.000			Recovery =	6.87%		
94) Terphenyl-d14	11.563	244	20164	3.57	ng	-0.02
Spiked Amount 50.000			Recovery =	7.14%		
Target Compounds						Qvalue
41) Naphthalene	6.875	128	7371m	0.7516	ng	
65) Acenaphthene	8.322	153	15983m	2.6877	ng	
68) Dibenzofuran	8.475	168	17955m	2.1616	ng	
72) Fluorene	8.798	166	18084m	2.7048	ng	
86) Phenanthrene	9.786	178	246682m	26.7934	ng	
87) Anthracene	9.845	178	77969m	8.3461	ng	
90) Fluoranthene	11.127	202	400927m	39.8315	ng	
92) Pyrene	11.392	202	361461m	36.2315	ng	
100) Benzo[a]anthracene	12.816	228	215604m	22.8155	ng	
101) Chrysene	12.857	228	170843m	19.8491	ng	
105) Benzo[b]fluoranthene	14.039	252	254267m	29.9799	ng	
106) Benzo[k]fluoranthene	14.063	252	61152m	7.6656	ng	
107) Benzo[a]pyrene	14.398	252	174348m	21.7923	ng	
108) Indeno[1,2,3-cd]pyrene	15.815	276	96873m	11.5486	ng	
109) Dibenzo[a,h]anthracene	15.821	278	26467m	3.6657	ng	
110) Benzo[g,h,i]perylene	16.210	276	96191m	13.2418	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M116501.D\data.ms
Quant QT Reviewed
SampleID : AD33915-004(10X)
Data File: 9M116501.D
Acq On : 10/25/22 16:31
Operator : AH/JB
Sam Mult : 1 Vial# : 22
Misc : S,BNA:10
Qt Meth : 9M_0921.M
Qt On : 10/26/22 07:36
Qt Upd On: 09/21/22 12:34
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Time-->


Abundance
TIC: 9M116501.D\data.ms
Acenaphthene-d10,I
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Chrysene,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Acenaphthene,P
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene,P
Anthracene,P
Terphenyl-d14,S
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33915-005(5X)(R)
Client Id: SB-67SS (4')
Data File: 9M116563.D
Analysis Date: 10/27/22 12:59
Date Rec/Extracted: 10/15/22-10/27/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 5
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	**1,1'-Biphenyl**	**0.20**	**1.2**	50-32-8	Benzo[a]pyrene	0.20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.20	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.20**	**0.26**
122-66-7	1,2-Diphenylhydrazine	0.20	U	191-24-2	Benzo[g,h,i]perylene	0.20	U
123-91-1	1,4-Dioxane	0.057	U	207-08-9	Benzo[k]fluoranthene	0.20	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.20	U	100-51-6	Benzyl alcohol	0.20	U
95-95-4	2,4,5-Trichlorophenol	0.20	U	111-91-1	bis(2-Chloroethoxy)methan	0.20	U
88-06-2	2,4,6-Trichlorophenol	0.20	U	111-44-4	bis(2-Chloroethyl)ether	0.063	U
120-83-2	2,4-Dichlorophenol	0.064	U	108-60-1	bis(2-chloroisopropyl)ether	0.20	U
105-67-9	2,4-Dimethylphenol	0.11	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.8	U
51-28-5	2,4-Dinitrophenol	0.99	U	85-68-7	Butylbenzylphthalate	0.20	U
121-14-2	2,4-Dinitrotoluene	0.20	U	105-60-2	Caprolactam	0.20	U
606-20-2	2,6-Dinitrotoluene	0.20	U	86-74-8	Carbazole	0.20	U
91-58-7	2-Chloronaphthalene	0.20	U	218-01-9	Chrysene	0.20	U
95-57-8	2-Chlorophenol	0.20	U	53-70-3	Dibenzo[a,h]anthracene	0.20	U
91-57-6	**2-Methylnaphthalene**	**0.20**	**14**	132-64-9	Dibenzofuran	0.062	U
95-48-7	2-Methylphenol	0.062	U	84-66-2	Diethylphthalate	3.5	U
88-74-4	2-Nitroaniline	0.20	U	131-11-3	Dimethylphthalate	0.20	U
88-75-5	2-Nitrophenol	0.20	U	84-74-2	Di-n-butylphthalate	4.8	U
106-44-5	3&4-Methylphenol	0.066	U	117-84-0	Di-n-octylphthalate	0.20	U
91-94-1	3,3'-Dichlorobenzidine	0.20	U	**206-44-0**	**Fluoranthene**	**0.20**	**0.29**
99-09-2	3-Nitroaniline	0.20	U	86-73-7	Fluorene	0.20	U
534-52-1	4,6-Dinitro-2-methylphenol	0.99	U	118-74-1	Hexachlorobenzene	0.20	U
101-55-3	4-Bromophenyl-phenylether	0.20	U	87-68-3	Hexachlorobutadiene	0.20	U
59-50-7	4-Chloro-3-methylphenol	0.20	U	77-47-4	Hexachlorocyclopentadiene	0.66	U
106-47-8	4-Chloroaniline	0.068	U	67-72-1	Hexachloroethane	0.20	U
7005-72-3	4-Chlorophenyl-phenylether	0.20	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U
100-01-6	4-Nitroaniline	0.20	U	78-59-1	Isophorone	0.20	U
100-02-7	4-Nitrophenol	0.20	U	**91-20-3**	**Naphthalene**	**0.050**	**3.4**
83-32-9	Acenaphthene	0.20	U	98-95-3	Nitrobenzene	0.20	U
208-96-8	Acenaphthylene	0.20	U	62-75-9	N-Nitrosodimethylamine	0.20	U
98-86-2	Acetophenone	0.20	U	621-64-7	N-Nitroso-di-n-propylamine	0.051	U
120-12-7	Anthracene	0.20	U	86-30-6	n-Nitrosodiphenylamine	0.20	U
1912-24-9	Atrazine	0.20	U	87-86-5	Pentachlorophenol	0.99	U
100-52-7	Benzaldehyde	0.20	U	**85-01-8**	**Phenanthrene**	**0.20**	**0.33**
92-87-5	Benzidine	0.57	U	108-95-2	Phenol	0.20	U
56-55-3	Benzo[a]anthracene	0.20	U	**129-00-0**	**Pyrene**	**0.20**	**0.28**

Worksheet #: 664006

Total Target Concentration 20

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD33915-005(5X)(P) Operator : AH/JB Qt Meth : 9M 0921.M
Data File: 9M116563.D Sam Mult : 1 Vial# : 13 Qt On : 10/27/22 13:37
Acq On : 10/27/22 12:59 Misc : S,BNA:5 Qt Upd On: 09/21/22 12:34

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-27-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.610	96	48750	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.845	152	88403	40.00	ng	-0.02
31) Naphthalene-d8	6.857	136	346881	40.00	ng	-0.01
50) Acenaphthene-d10	8.292	164	175387	40.00	ng	-0.01
77) Phenanthrene-d10	9.751	188	329924	40.00	ng	-0.02
91) Chrysene-d12	12.816	240	284662	40.00	ng	[illegible]
103) Perylene-d12	14.445	264	244213	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.657	112	51878	19.17	ng	-0.01
Spiked Amount 100.000			Recovery = 19.17%			
16) Phenol-d5	5.540	99	70895	22.04	ng	0.00
Spiked Amount 100.000			Recovery = 22.04%			
32) Nitrobenzene-d5	6.298	128	17423m	12.66	ng	-0.01
Spiked Amount 50.000			Recovery = 25.32%			
55) 2-Fluorobiphenyl	7.698	172	63496m	10.01	ng	-0.01
Spiked Amount 50.000			Recovery = 20.02%			
80) 2,4,6-Tribromophenol	9.033	330	17627	23.36	ng	-0.02
Spiked Amount 100.000			Recovery = 23.36%			
94) Terphenyl-d14	11.551	244	62415	11.72	ng	-0.03
Spiked Amount 50.000			Recovery = [illegible]			
Target Compounds						Qvalue
41) Naphthalene	6.875	128	309537m	33.9824	ng	
46) 2-Methylnaphthalene	7.416	142	833354m	140.6100	ng	
49) 1,1'-Biphenyl	7.781	154	79970m	11.6286	ng	
86) Phenanthrene	9.775	178	28479m	3.3108	ng	
90) Fluoranthene	11.116	202	27819m	2.9581	ng	
92) Pyrene	11.380	202	26777m	2.8453	ng	
105) Benzo[b]fluoranthene	14.027	252	19125m	2.6387	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Abundance

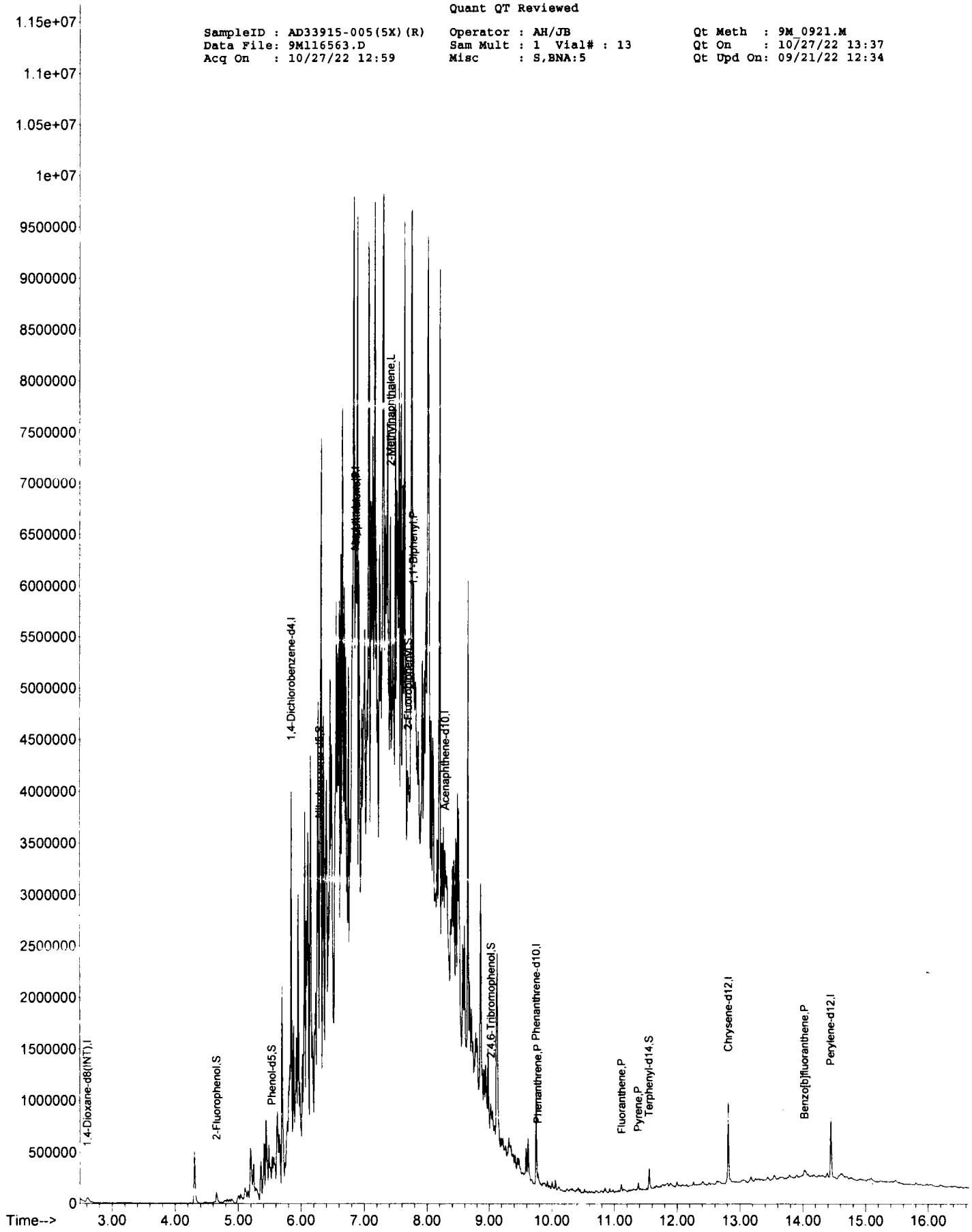
TIC: 9M116563.D\data.ms

Quant QT Reviewed

SampleID : AD33915-005(5X)(R)
Data File: 9M116563.D
Acq On : 10/27/22 12:59

Operator : AH/JB
Sam Mult : 1 Vial# : 13
Misc : S,BNA:5

Qt Meth : 9M_0921.M
Qt On : 10/27/22 13:37
Qt Upd On: 09/21/22 12:34



Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB103408
Client Id:
Data File: 9M116527.D
Analysis Date: 10/26/22 15:28
Date Rec/Extracted: NA-10/25/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.0095	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.011	U
120-83-2	2,4-Dichlorophenol	0.011	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.30	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0087	U
95-48-7	2-Methylphenol	0.010	U	84-66-2	Diethylphthalate	0.59	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.80	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.011	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0083	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.033	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.0086	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.033	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.033	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.096	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 662864

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

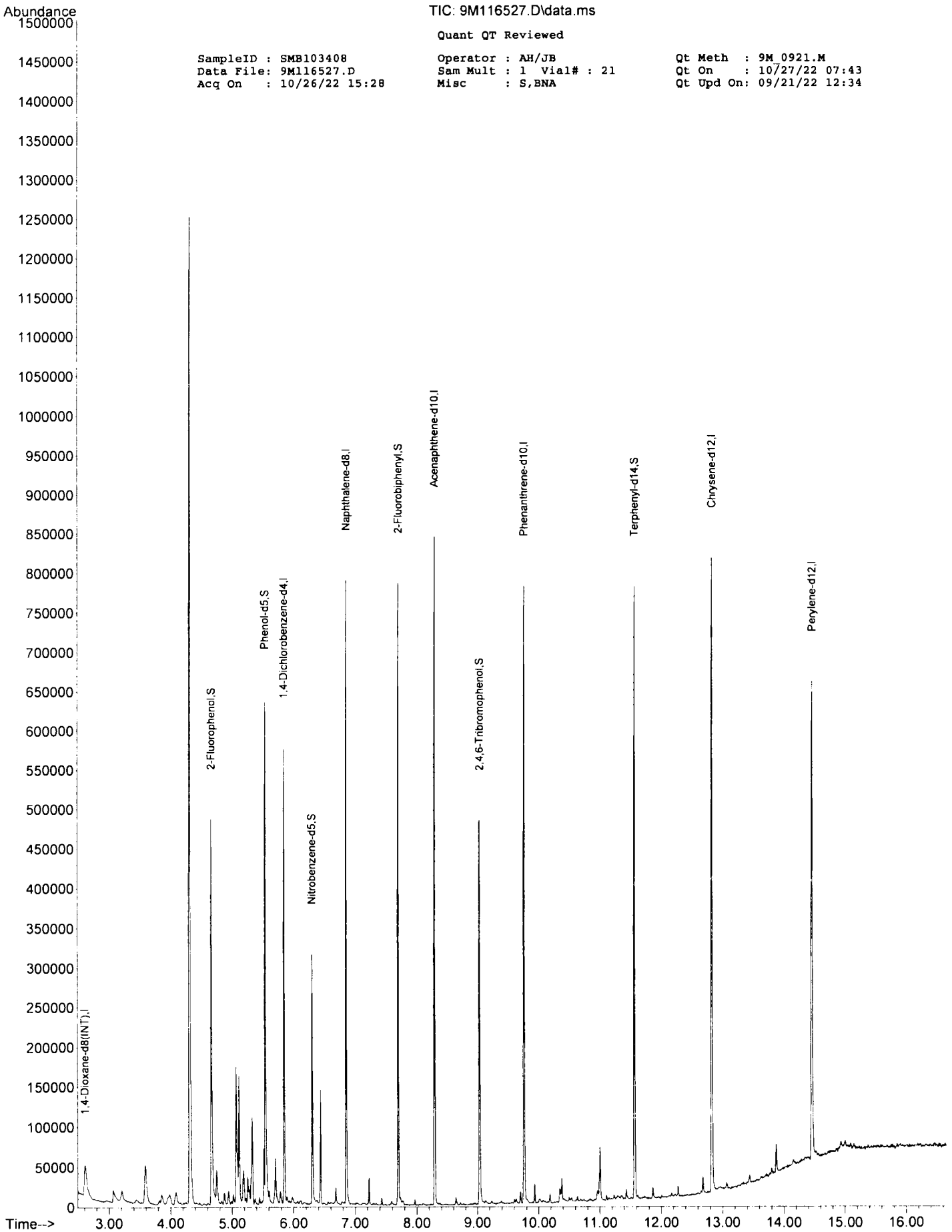
Quantitation Report (QT Reviewed)

SampleID : SMB103408 Operator : AH/JB Qt Meth : 9M_0921.M
Data File: 9M116527.D Sam Mult : 1 Vial# : 21 Qt On : 10/27/22 07:43
Acq On : 10/26/22 15:28 Misc : S,BNA Qt Upd On: 09/21/22 12:34

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-2622\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.610	96	48552	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.845	152	82061	40.00	ng	-0.02
31) Naphthalene-d8	6.857	136	320398	40.00	ng	-0.01
50) Acenaphthene-d10	8.292	164	164469	40.00	ng	-0.01
77) Phenanthrene-d10	9.763	188	298313	40.00	ng	-0.01
91) Chrysene-d12	12.827	240	285569	40.00	ng	0.00
103) Perylene-d12	14.463	264	253487	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.663	112	154971	57.51	ng	0.00
Spiked Amount 100.000			Recovery = 57.51%			
16) Phenol-d5	5.540	99	228826	71.44	ng	0.00
Spiked Amount 100.000			Recovery = 71.44%			
32) Nitrobenzene-d5	6.298	128	43890	34.52	ng	-0.01
Spiked Amount 50.000			Recovery = 69.04%			
55) 2-Fluorobiphenyl	7.698	172	221758	37.27	ng	-0.01
Spiked Amount 50.000			Recovery = 74.54%			
80) 2,4,6-Tribromophenol	9.039	330	61893	90.73	ng	-0.01
Spiked Amount 100.000			Recovery = 90.73%			
94) Terphenyl-d14	11.569	244	232281	43.47	ng	-0.01
Spiked Amount 50.000			Recovery = 86.94%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M116527.D\data.ms
Quant QT Reviewed
SampleID : SMB103408
Data File: 9M116527.D
Acq On : 10/26/22 15:28
Operator : AH/JB
Sam Mult : 1 Vial# : 21
Misc : S,BNA
Qt Meth : 9M_0921.M
Qt On : 10/27/22 07:43
Qt Upd On: 09/21/22 12:34
1,4-Dioxane-d8(INT).I
2-Fluorophenol.S
Phenol-d5.S
1,4-Dichlorobenzene-d4.I
Nitrobenzene-d5.S
Naphthalene-d8.I
2-Fluorobiphenyl.S
Acenaphthene-d10.I
2,4,6-Tribromophenol.S
Phenanthrene-d10.I
Terphenyl-d14.S
Chrysene-d12.I
Perylene-d12.I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB103438
Client Id:
Data File: 9M116584.D
Analysis Date: 10/28/22 10:33
Date Rec/Extracted: NA-10/27/22
Column.DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.0095	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.011	U
120-83-2	2,4-Dichlorophenol	0.011	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.30	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0087	U
95-48-7	2-Methylphenol	0.010	U	84-66-2	Diethylphthalate	0.33	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.80	U
106-44-5	3&4 Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.011	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0083	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.033	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.0086	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.033	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.033	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.096	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 664006

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

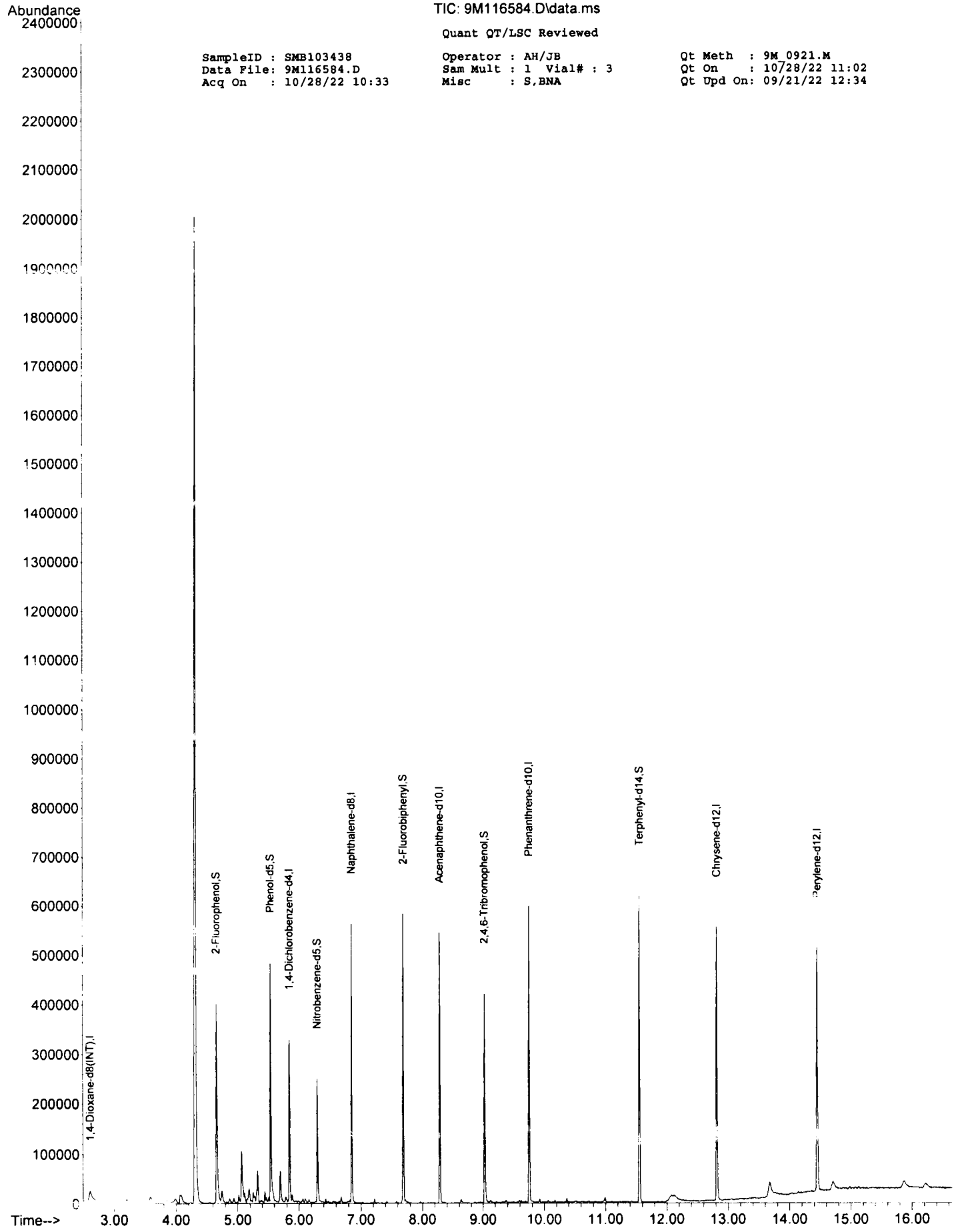
Quantitation Report (QT/LSC Reviewed)

SampleID : SMB103438 Operator : AH/JB Qt Meth : 9M_0921.M
Data File: 9M116584.D Sam Mult : 1 Vial# : 3 Qt On : 10/28/22 11:02
Acq On : 10/28/22 10:33 Misc : S,BNA Qt Upd On: 09/21/22 12:34

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-28-22\
Qt Path : G:\GCMSDATA\2022\GCMS_9\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.610	96	27374	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.845	152	54937	40.00	ng	[illegible]
31) Naphthalene-d8	6.851	136	210254	40.00	ng	-0.02
50) Acenaphthene-d10	8.281	164	111489	40.00	ng	-0.02
77) Phenanthrene-d10	9.751	188	229371	40.00	ng	-0.02
91) Chrysene-d12	12.816	240	200717	40.00	ng	-0.02
103) Perylene-d12	14.451	264	203662	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.657	112	138531	91.18	ng	-0.01
Spiked Amount 100.000			Recovery = 91.18%			
16) Phenol-d5	5.540	99	177290	98.17	ng	0.00
Spiked Amount 100.000			Recovery = 98.17%			
32) Nitrobenzene-d5	6.298	128	35815	42.93	ng	-0.01
Spiked Amount 50.000			Recovery = 85.86%			
55) 2-Fluorobiphenyl	7.692	172	183300	45.45	ng	-0.02
Spiked Amount 50.000			Recovery = 90.91%			
80) 2,4,6-Tribromophenol	9.028	330	47929	91.38	ng	-0.02
Spiked Amount 100.000			Recovery = 91.38%			
94) Terphenyl-d14	11.557	244	201801	53.73	ng	-0.02
Spiked Amount 50.000			Recovery = 107.46%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 9M116584.D\data.ms
Quant QT/LSC Reviewed
SampleID : SMB103438
Data File: 9M116584.D
Acq On : 10/28/22 10:33
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : S,BNA
Qt Meth : 9M_0921.M
Qt On : 10/28/22 11:02
Qt Upd On: 09/21/22 12:34
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
9M116527.D	SMB103408	S	10/26/22 15:28	1		58	71	69	75	91	87
9M116584.D	SMB103438	S	10/28/22 10:33	1		91	98	86	91	91	107
9M116504.D	AD33915-001(5X)	S	10/25/22 17:40	5	ET 11/08/22	49	56	75	59	63	65
9M116503.D	AD33915-002(5X)	S	10/25/22 17:17	5	SD	54	67	75	70	44*	81
9M116500.D	AD33915-003(10X)	S	10/25/22 16:08	10		56	63	60	64	74	76
9M116501.D	AD33915-004(10X)	S	10/25/22 16:31	10		56	61	62	62	69	71
9M116563.D	AD33915-005(5X)(R)	S	10/27/22 12:59	5		96	110	127	100	117	117
10M93488.D	SMB103408(MS)	S	10/25/22 13:43	1		76	81	71	76	89	85
7M124776.D	SMB103438(MS)	S	10/28/22 09:21	1		93	99	102	94	113	104
9M116505.D	AD33982-003(5X)	S	10/25/22 18:03	5		47	53	56	59	65	78
9M116506.D	AD33982-003(5X)(MS)	S	10/25/22 18:26	5	SD	43	53	51*	64	75	84
9M116507.D	AD33982-003(5X)(MSD)	S	10/25/22 18:49	5		54	59	60	62	69	77

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103408

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M93488.D	SMB103408(MS)	10/25/2022 1:43:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	18.8635	0	50	38	25	150
Pyridine	1	33.5184	0	50	67	10	150
N-Nitrosodimethylamine	1	36.5592	0	50	73	50	130
Benzaldehyde	1	42.5282	0	50	85	20	220
Aniline	1	16.0809	0	50	32	20	150
Pentachloroethane	1	38.1639	0	50	76	50	130
bis(2-Chloroethyl)ether	1	36.9621	0	50	74	50	130
Phenol	1	69.5081	0	100	70	20	150
2-Chlorophenol	1	75.4997	0	100	75	50	130
N-Decane	1	37.9867	0	50	76	20	130
1,3-Dichlorobenzene	1	36.4966	0	50	73	60	130
1,4-Dichlorobenzene	1	33.1516	0	50	66	60	130
1,2-Dichlorobenzene	1	33.3013	0	50	67	50	130
Benzyl alcohol	1	37.8454	0	50	76	20	130
bis(2-chloroisopropyl)ether	1	33.3624	0	50	67	40	130
2-Methylphenol	1	67.9308	0	100	68	50	130
Acetophenone	1	38.0824	0	50	76	50	130
Hexachloroethane	1	33.9252	0	50	68	50	130
N-Nitroso-di-n-propylamine	1	37.674	0	50	75	40	130
3&4-Methylphenol	1	71.9951	0	100	72	70	130
Nitrobenzene	1	38.8318	0	50	78	70	130
Isophorone	1	33.7032	0	50	67	60	130
2-Nitrophenol	1	72.2605	0	100	72	70	130
2,4-Dimethylphenol	1	70.7032	0	100	71	40	130
Benzoic Acid	1	69.1976	0	100	69	20	130
bis(2-Chloroethoxy)methane	1	35.0584	0	50	70	60	130
2,4-Dichlorophenol	1	73.1739	0	100	73	70	130
1,2,4-Trichlorobenzene	1	35.8632	0	50	72	50	130
Naphthalene	1	34.3627	0	50	69	50	130
4-Chloroaniline	1	15.4276	0	50	31	10	150
Hexachlorobutadiene	1	38.5776	0	50	77	60	130
Caprolactam	1	36.6499	0	50	73	50	130
4-Chloro-3-methylphenol	1	77.6576	0	100	78	50	130
2-Methylnaphthalene	1	38.4693	0	50	77	70	130
1-Methylnaphthalene	1	36.4411	0	50	73	70	130
1,1'-Biphenyl	1	38.0864	0	50	76	60	130
1,2,4,5-Tetrachlorobenzene	1	36.2557	0	50	73	70	130
Hexachlorocyclopentadiene	1	47.2044	0	50	94	20	160
2,4,6-Trichlorophenol	1	72.658	0	100	73	70	130
2,4,5-Trichlorophenol	1	76.4209	0	100	76	70	130
2-Chloronaphthalene	1	35.5532	0	50	71	70	130
1,4-Dimethylnaphthalene	1	35.4414	0	50	71	70	130
Diphenyl Ether	1	35.9154	0	50	72	70	130
2-Nitroaniline	1	42.8063	0	50	86	50	130
Coumarin	1	35.7626	0	50	72	70	130
Acenaphthylene	1	37.7104	0	50	75	70	130
Dimethylphthalate	1	37.2449	0	50	74	70	130
2,6-Dinitrotoluene	1	38.1004	0	50	76	70	130
Acenaphthene	1	36.6915	0	50	73	50	130
3-Nitroaniline	1	22.6434	0	50	45	10	130
2,4-Dinitrophenol	1	59.3241	0	100	59	20	150
Dibenzofuran	1	38.5038	0	50	77	70	130
2,4-Dinitrotoluene	1	37.6223	0	50	75	40	130
4-Nitrophenol	1	85.7592	0	100	86	20	150
2,3,4,6-Tetrachlorophenol	1	79.636	0	100	80	70	130
Fluorene	1	37.4605	0	50	75	50	130
4-Chlorophenyl-phenylether	1	37.7739	0	50	76	70	130
Diethylphthalate	1	38.6493	0	50	77	70	130
4-Nitroaniline	1	36.2695	0	50	73	50	130
Atrazine	1	39.5707	0	50	79	50	130
4,6-Dinitro-2-methylphenol	1	68.6442	0	100	69	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103408

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	**1**	**29.7297**	**0**	**50**	**59**	**50**	**130**
1,2-Diphenylhydrazine	**1**	**37.7991**	**0**	**50**	**76**	**70**	**130**
4-Bromophenyl-phenylether	**1**	**38.8903**	**0**	**50**	**78**	**70**	**130**
Hexachlorobenzene	**1**	**39.8842**	**0**	**50**	**80**	**70**	**130**
N-Octadecane	1	55.1907	0	50	110	70	130
Pentachlorophenol	**1**	**76.7118**	**0**	**100**	**77**	**40**	**130**
Phenanthrene	**1**	**36.1348**	**0**	**50**	**72**	**70**	**130**
Anthracene	**1**	**36.191**	**0**	**50**	**72**	**70**	**130**
Carbazole	**1**	**35.6546**	**0**	**50**	**71**	**70**	**130**
Di-n-butylphthalate	**1**	**37.2437**	**0**	**50**	**74**	**70**	**130**
Fluoranthene	**1**	**38.488**	**0**	**50**	**77**	**70**	**130**
Pyrene	**1**	**36.1783**	**0**	**50**	**72**	**50**	**130**
Benzidine	**1**	**0**	**0**	**50**	**0***	**10**	**130**
Butylbenzylphthalate	**1**	**35.6992**	**0**	**50**	**71**	**50**	**130**
3,3'-Dichlorobenzidine	**1**	**16.6013**	**0**	**50**	**33**	**10**	**130**
Benzo[a]anthracene	**1**	**35.3598**	**0**	**50**	**71**	**70**	**130**
Chrysene	**1**	**36.3165**	**0**	**50**	**73**	**60**	**130**
bis(2-Ethylhexyl)phthalate	**1**	**36.1491**	**0**	**50**	**72**	**70**	**130**
Di-n-octylphthalate	**1**	**35.8887**	**0**	**50**	**72**	**70**	**130**
Benzo[b]fluoranthene	**1**	**38.5156**	**0**	**50**	**77**	**70**	**130**
Benzo[k]fluoranthene	**1**	**40.4611**	**0**	**50**	**81**	**70**	**130**
Benzo[a]pyrene	**1**	**37.5422**	**0**	**50**	**75**	**70**	**130**
Indeno[1,2,3-cd]pyrene	**1**	**40.8752**	**0**	**50**	**82**	**70**	**130**
Dibenzo[a,h]anthracene	**1**	**40.0051**	**0**	**50**	**80**	**60**	**130**
Benzo[g,h,i]perylene	**1**	**36.8293**	**0**	**50**	**74**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103408

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M116506.D	AD33982-003(5X)(MS)	10/25/2022 6:26:00 PM
Non Spike(If applicable):	9M116505.D	AD33982-003(5X)	10/25/2022 6:03:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	21.8615	0	50	44	25	150
Pyridine	1	24.9205	0	50	50	10	150
N-Nitrosodimethylamine	1	26.5825	0	50	53	50	130
Benzaldehyde	1	31.1655	0	50	62	20	220
Aniline	1	22.8255	0	50	46	20	150
Pentachloroethane	1	28.7685	0	50	58	50	130
bis(2-Chloroethyl)ether	1	31.287	0	50	63	50	130
N-Decane	1	24.1205	0	50	48	20	130
1,3-Dichlorobenzene	1	25.891	0	50	52*	60	130
1,4-Dichlorobenzene	1	28.865	0	50	58*	60	130
1,2-Dichlorobenzene	1	28.742	0	50	57	50	130
Benzyl alcohol	1	31.545	0	50	63	20	130
bis(2-chloroisopropyl)ether	1	26.9465	0	50	54	40	130
Acetophenone	1	37.939	0	50	76	50	130
Hexachloroethane	1	29.9285	0	50	60	50	130
N-Nitroso-di-n-propylamine	1	35.8385	0	50	72	40	130
Nitrobenzene	1	34.2585	0	50	69*	70	130
Isophorone	1	31.3285	0	50	63	60	130
Benzoic Acid	1	56.299	0	100	56	20	130
bis(2-Chloroethoxy)methane	1	33.87	0	50	68	60	130
1,2,4-Trichlorobenzene	1	29.4	0	50	59	50	130
Naphthalene	1	31.2605	0	50	63	50	130
4-Chloroaniline	1	27.5145	0	50	55	10	150
Hexachlorobutadiene	1	30.5495	0	50	61	60	130
Caprolactam	1	33.0945	0	50	66	50	130
2-Methylnaphthalene	1	33.862	0	50	68*	70	130
1-Methylnaphthalene	1	31.4985	0	50	63*	70	130
1,1'-Biphenyl	1	32.2415	0	50	64	60	130
1,2,4,5-Tetrachlorobenzene	1	30.532	0	50	61*	70	130
Hexachlorocyclopentadiene	1	0	0	50	0*	20	160
2-Chloronaphthalene	1	33.8955	0	50	68*	70	130
1,4-Dimethylnaphthalene	1	32.0155	0	50	64*	70	130
Diphenyl Ether	1	31.391	0	50	63*	70	130
2-Nitroaniline	1	41.238	0	50	82	50	130
Coumarin	1	34.4505	0	50	69*	70	130
Acenaphthylene	1	41.3885	0	50	83	70	130
Dimethylphthalate	1	38.0205	0	50	76	70	130
2,6-Dinitrotoluene	1	87.4805	0	50	175*	70	130
Acenaphthene	1	33.5895	0	50	67	50	130
3-Nitroaniline	1	26.47	0	50	53*	70	130
Dibenzofuran	1	33.344	0	50	67*	70	130
2,4-Dinitrotoluene	1	40.759	0	50	82	40	130
Fluorene	1	34.423	0	50	69	50	130
4-Chlorophenyl-phenylether	1	46.7415	0	50	93	70	130
Diethylphthalate	1	42.33	0	50	85	70	130
4-Nitroaniline	1	29.071	0	50	58	50	130
Atrazine	1	42.028	0	50	84	50	130
n-Nitrosodiphenylamine	1	29.266	0	50	59	50	130
1,2-Diphenylhydrazine	1	41.016	0	50	82	70	130
4-Bromophenyl-phenylether	1	36.6915	0	50	73	70	130
Hexachlorobenzene	1	36.416	0	50	73	70	130
N-Octadecane	1	45.3655	0	50	91	70	130
Phenanthrene	1	35.719	0	50	71	70	130
Anthracene	1	36.7625	0	50	74	70	130
Carbazole	1	39.372	0	50	79	70	130
Di-n-butylphthalate	1	32.955	0	50	66*	70	130
Fluoranthene	1	35.939	0	50	72	70	130
Pyrene	1	36.0685	0	50	72	50	130
Benzidine	1	0	0	50	0*	10	130
Butylbenzylphthalate	1	39.883	0	50	80	50	130
3,3'-Dichlorobenzidine	1	0	0	50	0*	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103408

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	31.78	0	50	64*	70	130
Chrysene	1	31.645	0	50	63	60	130
bis(2-Ethylhexyl)phthalate	1	36.1135	0	50	72	70	130
Di-n-octylphthalate	1	41.172	0	50	82	70	130
Benzo[b]fluoranthene	1	35.6655	0	50	71	70	130
Benzo[k]fluoranthene	1	35.4245	0	50	71	70	130
Benzo[a]pyrene	1	31.9105	0	50	64*	70	130
Indeno[1,2,3-cd]pyrene	1	32.357	0	50	65*	70	130
Dibenzo[a,h]anthracene	1	32.226	0	50	64	60	130
Benzo[g,h,i]perylene	1	29.033	0	50	58*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103408

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M116507.D	AD33982-003(5X)(MSD)	10/25/2022 6:49:00 PM
Non Spike(If applicable):	9M116505.D	AD33982-003(5X)	10/25/2022 6:03:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	20.259	0	50	41	25	150
Pyridine	1	25.4765	0	50	51	10	150
N-Nitrosodimethylamine	1	24.6535	0	50	49*	50	130
Benzaldehyde	1	30.559	0	50	61	20	220
Aniline	1	22.507	0	50	45	20	150
Pentachloroethane	1	27.366	0	50	55	50	130
bis(2-Chloroethyl)ether	1	29.884	0	50	60	50	130
N-Decane	1	24.679	0	50	49	20	130
1,3-Dichlorobenzene	1	26.076	0	50	52*	60	130
1,4-Dichlorobenzene	1	28.51	0	50	57*	60	130
1,2-Dichlorobenzene	1	27.228	0	50	54	50	130
Benzyl alcohol	1	28.6495	0	50	57	20	130
bis(2-chloroisopropyl)ether	1	26.0215	0	50	52	40	130
Acetophenone	1	35.082	0	50	70	50	130
Hexachloroethane	1	28.2705	0	50	57	50	130
N-Nitroso-di-n-propylamine	1	31.8135	0	50	64	40	130
Nitrobenzene	1	32.823	0	50	66*	70	130
Isophorone	1	28.744	0	50	57*	60	130
Benzoic Acid	1	55.4	0	100	55	20	130
bis(2-Chloroethoxy)methane	1	29.4395	0	50	59*	60	130
1,2,4-Trichlorobenzene	1	28.661	0	50	57	50	130
Naphthalene	1	29.0765	0	50	58	50	130
4-Chloroaniline	1	25.7655	0	50	52	10	150
Hexachlorobutadiene	1	28.0005	0	50	56*	60	130
Caprolactam	1	28.2725	0	50	57	50	130
2-Methylnaphthalene	1	31.528	0	50	63*	70	130
1-Methylnaphthalene	1	29.9735	0	50	60*	70	130
1,1'-Biphenyl	1	29.97	0	50	60	60	130
1,2,4,5-Tetrachlorobenzene	1	28.773	0	50	58*	70	130
Hexachlorocyclopentadiene	1	0	0	50	0*	20	160
2-Chloronaphthalene	1	31.0615	0	50	62*	70	130
1,4-Dimethylnaphthalene	1	29.865	0	50	60*	70	130
Diphenyl Ether	1	30.058	0	50	60*	70	130
2-Nitroaniline	1	41.057	0	50	82	50	130
Coumarin	1	34.3435	0	50	69*	70	130
Acenaphthylene	1	42.094	0	50	84	70	130
Dimethylphthalate	1	37.023	0	50	74	70	130
2,6-Dinitrotoluene	1	92.171	0	50	184*	70	130
Acenaphthene	1	32.515	0	50	65	50	130
3-Nitroaniline	1	23.8935	0	50	48*	70	130
Dibenzofuran	1	32.1085	0	50	64*	70	130
2,4-Dinitrotoluene	1	35.1275	0	50	70	40	130
Fluorene	1	32.617	0	50	65	50	130
4-Chlorophenyl-phenylether	1	48.7065	0	50	97	70	130
Diethylphthalate	1	40.2765	0	50	81	70	130
4-Nitroaniline	1	34.4355	0	50	69	50	130
Atrazine	1	50.9615	0	50	102	50	130
n-Nitrosodiphenylamine	1	27.321	0	50	55	50	130
1,2-Diphenylhydrazine	1	46.568	0	50	93	70	130
4-Bromophenyl-phenylether	1	36.414	0	50	73	70	130
Hexachlorobenzene	1	34.8315	0	50	70	70	130
N-Octadecane	1	42.7305	0	50	85	70	130
Phenanthrene	1	35.1645	0	50	70	70	130
Anthracene	1	35.528	0	50	71	70	130
Carbazole	1	33.2925	0	50	67*	70	130
Di-n-butylphthalate	1	30.7145	0	50	61*	70	130
Fluoranthene	1	33.219	0	50	66*	70	130
Pyrene	1	32.4265	0	50	65	50	130
Benzidine	1	0	0	50	0*	10	130
Butylbenzylphthalate	1	38.3995	0	50	77	50	130
3,3'-Dichlorobenzidine	1	0	0	50	0*	10	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103408

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Benzo[a]anthracene	1	30.086	0	50	60*	70	130
Chrysene	1	29.9725	0	50	60	60	130
bis(2-Ethylhexyl)phthalate	1	36.931	0	50	74	70	130
Di-n-octylphthalate	1	36.828	0	50	74	70	130
Benzo[b]fluoranthene	1	33.231	0	50	66*	70	130
Benzo[k]fluoranthene	1	33.9525	0	50	68*	70	130
Benzo[a]pyrene	1	29.595	0	50	59*	70	130
Indeno[1,2,3-cd]pyrene	1	30.2435	0	50	60*	70	130
Dibenzo[a,h]anthracene	1	30.3665	0	50	61	60	130
Benzo[g,h,i]perylene	1	27.577	0	50	55*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103408

	Data File	Sample ID:	Analysis Date
Spike or Dup:	9M116507.D	AD33982-003(5X)(MSD)	10/25/2022 6:49:00 PM
Duplicate(If applicable):	9M116506.D	AD33982-003(5X)(MS)	10/25/2022 6:26:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	20.259	21.8615	7.6	30
Pyridine	1	25.4765	24.9205	2.2	30
N-Nitrosodimethylamine	1	24.6535	26.5825	7.5	30
Benzaldehyde	1	30.559	31.1655	2	30
Aniline	1	22.507	22.8255	1.4	30
Pentachloroethane	1	27.366	28.7685	5	30
bis(2-Chloroethyl)ether	1	29.884	31.287	4.6	30
N-Decane	1	24.679	24.1205	2.3	30
1,3-Dichlorobenzene	1	26.076	25.891	0.71	30
1,4-Dichlorobenzene	1	28.51	28.865	1.2	40
1,2-Dichlorobenzene	1	27.228	28.742	5.4	30
Benzyl alcohol	1	28.6495	31.545	9.6	30
bis(2-chloroisopropyl)ether	1	26.0215	26.9465	3.5	30
Acetophenone	1	35.082	37.939	7.8	30
Hexachloroethane	1	28.2705	29.9285	5.7	30
N-Nitroso-di-n-propylamine	1	31.8135	35.8385	12	40
Nitrobenzene	1	32.823	34.2585	4.3	30
Isophorone	1	28.744	31.3285	8.6	30
Benzoic Acid	1	55.4	56.299	1.6	30
bis(2-Chloroethoxy)methane	1	29.4395	33.87	14	30
1,2,4-Trichlorobenzene	1	28.661	29.4	2.5	40
Naphthalene	1	29.0765	31.2605	7.2	40
4-Chloroaniline	1	25.7655	27.5145	6.6	30
Hexachlorobutadiene	1	28.0005	30.5495	8.7	30
Caprolactam	1	28.2725	33.0945	16	30
2-Methylnaphthalene	1	31.528	33.862	7.1	30
1-Methylnaphthalene	1	29.9735	31.4985	5	30
1,1'-Biphenyl	1	29.97	32.2415	7.3	30
1,2,4,5-Tetrachlorobenzene	1	28.773	30.532	5.9	30
Hexachlorocyclopentadiene	1	0	0	NA	30
2-Chloronaphthalene	1	31.0615	33.8955	8.7	30
1,4-Dimethylnaphthalene	1	29.865	32.0155	7	30
Diphenyl Ether	1	30.058	31.391	4.3	30
2-Nitroaniline	1	41.057	41.238	0.44	30
Coumarin	1	34.3435	34.4505	0.31	30
Acenaphthylene	1	42.094	41.3885	1.7	30
Dimethylphthalate	1	37.023	38.0205	2.7	30
2,6-Dinitrotoluene	1	92.171	87.4805	5.2	30
Acenaphthene	1	32.515	33.5895	3.3	40
3-Nitroaniline	1	23.8935	26.47	10	30
Dibenzofuran	1	32.1085	33.344	3.8	30
2,4-Dinitrotoluene	1	35.1275	40.759	15	40
Fluorene	1	32.617	34.423	5.4	40
4-Chlorophenyl-phenylether	1	48.7065	46.7415	4.1	30
Diethylphthalate	1	40.2765	42.33	5	30
4-Nitroaniline	1	34.4355	29.071	17	30
Atrazine	1	50.9615	42.028	19	30
n-Nitrosodiphenylamine	1	27.321	29.266	6.9	30
1,2-Diphenylhydrazine	1	46.568	41.016	13	30
4-Bromophenyl-phenylether	1	36.414	36.6915	0.76	30
Hexachlorobenzene	1	34.8315	36.416	4.4	30
N-Octadecane	1	42.7305	45.3655	6	30
Phenanthrene	1	35.1645	35.719	1.6	30
Anthracene	1	35.528	36.7625	3.4	30
Carbazole	1	33.2925	39.372	17	30
Di-n-butylphthalate	1	30.7145	32.955	7	30
Fluoranthene	1	33.219	35.939	7.9	30
Pyrene	1	32.4265	36.0685	11	40
Benzidine	1	0	0	NA	30
Butylbenzylphthalate	1	38.3995	39.883	3.8	40
3,3'-Dichlorobenzidine	1	0	0	NA	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103408

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Benzo[a]anthracene	1	30.086	31.78	5.5	30
Chrysene	1	29.9725	31.645	5.4	30
bis(2-Ethylhexyl)phthalate	1	36.931	36.1135	2.2	30
Di-n-octylphthalate	1	36.828	41.172	11	30
Benzo[b]fluoranthene	1	33.231	35.6655	7.1	30
Benzo[k]fluoranthene	1	33.9525	35.4245	4.2	30
Benzo[a]pyrene	1	29.595	31.9105	7.5	30
Indeno[1,2,3-cd]pyrene	1	30.2435	32.357	6.8	30
Dibenzo[a,h]anthracene	1	30.3665	32.226	5.9	30
Benzo[g,h,i]perylene	1	27.577	29.033	5.1	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103438

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M124776.D	SMB103438(MS)	10/28/2022 9:21:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	24.4984	0	50	49	25	150
Pyridine	1	54.6574	0	50	109	10	150
N-Nitrosodimethylamine	1	45.4567	0	50	91	50	130
Benzaldehyde	1	53.174	0	50	106	20	220
Aniline	1	31.3743	0	50	63	20	150
Pentachloroethane	1	48.1236	0	50	96	50	130
bis(2-Chloroethyl)ether	1	42.2098	0	50	84	50	130
Phenol	1	88.167	0	100	88	20	150
2-Chlorophenol	1	89.4844	0	100	89	50	130
N-Decane	1	47.2493	0	50	94	20	130
1,3-Dichlorobenzene	1	39.1776	0	50	78	60	130
1,4-Dichlorobenzene	1	42.1353	0	50	84	60	130
1,2-Dichlorobenzene	1	41.5536	0	50	83	50	130
Benzyl alcohol	1	46.8609	0	50	94	20	130
bis(2-chloroisopropyl)ether	1	45.5137	0	50	91	40	130
2-Methylphenol	1	96.7249	0	100	97	50	130
Acetophenone	1	53.6214	0	50	107	50	130
Hexachloroethane	1	42.5111	0	50	85	50	130
N-Nitroso-di-n-propylamine	1	45.9625	0	50	92	40	130
3&4-Methylphenol	1	103.6275	0	100	104	70	130
Nitrobenzene	1	48.4328	0	50	97	70	130
Isophorone	1	41.7824	0	50	84	60	130
2-Nitrophenol	1	103.5139	0	100	104	70	130
2,4-Dimethylphenol	1	90.4412	0	100	90	40	130
Benzoic Acid	1	73.3218	0	100	73	20	130
bis(2-Chloroethoxy)methane	1	46.1371	0	50	92	60	130
2,4-Dichlorophenol	1	95.9488	0	100	96	70	130
1,2,4-Trichlorobenzene	1	42.1832	0	50	84	50	130
Naphthalene	1	44.431	0	50	89	50	130
4-Chloroaniline	1	32.6998	0	50	65	10	150
Hexachlorobutadiene	1	39.1826	0	50	78	60	130
Caprolactam	1	54.6273	0	50	109	50	130
4-Chloro-3-methylphenol	1	99.5224	0	100	100	50	130
2-Methylnaphthalene	1	47.6318	0	50	95	70	130
1-Methylnaphthalene	1	50.6318	0	50	101	70	130
1,1'-Biphenyl	1	50.9816	0	50	102	60	130
1,2,4,5-Tetrachlorobenzene	1	52.2604	0	50	105	70	130
Hexachlorocyclopentadiene	1	17.3579	0	50	35	20	160
2,4,6-Trichlorophenol	1	96.9846	0	100	97	70	130
2,4,5-Trichlorophenol	1	89.5415	0	100	90	70	130
2-Chloronaphthalene	1	43.7452	0	50	87	70	130
1,4-Dimethylnaphthalene	1	52.6249	0	50	105	70	130
Diphenyl Ether	1	51.09	0	50	102	70	130
2-Nitroaniline	1	58.761	0	50	118	50	130
Coumarin	1	54.376	0	50	109	70	130
Acenaphthylene	1	47.0999	0	50	94	70	130
Dimethylphthalate	1	43.8913	0	50	88	70	130
2,6-Dinitrotoluene	1	48.6698	0	50	97	70	130
Acenaphthene	1	46.0258	0	50	92	50	130
3-Nitroaniline	1	39.592	0	50	79	10	130
2,4-Dinitrophenol	1	73.0826	0	100	73	20	150
Dibenzofuran	1	45.4399	0	50	91	70	130
2,4-Dinitrotoluene	1	46.8028	0	50	94	40	130
4-Nitrophenol	1	97.5069	0	100	98	20	150
2,3,4,6-Tetrachlorophenol	1	90.5622	0	100	91	70	130
Fluorene	1	47.2152	0	50	94	50	130
4-Chlorophenyl-phenylether	1	44.1293	0	50	88	70	130
Diethylphthalate	1	45.1648	0	50	90	70	130
4-Nitroaniline	1	50.0379	0	50	100	50	130
Atrazine	1	51.7884	0	50	104	50	130
4,6-Dinitro-2-methylphenol	1	94.3727	0	100	94	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103438

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	39.208	0	50	78	50	130
1,2-Diphenylhydrazine	1	55.076	0	50	110	70	130
4-Bromophenyl-phenylether	1	46.2167	0	50	92	70	130
Hexachlorobenzene	1	44.8402	0	50	90	70	130
N-Octadecane	1	86.2464	0	50	172*	70	130
Pentachlorophenol	1	68.3339	0	100	68	40	130
Phenanthrene	1	46.7302	0	50	93	70	130
Anthracene	1	47.5595	0	50	95	70	130
Carbazole	1	53.8476	0	50	108	70	130
Di-n-butylphthalate	1	53.7482	0	50	107	70	130
Fluoranthene	1	48.5783	0	50	97	70	130
Pyrene	1	46.7114	0	50	93	50	130
Benzidine	1	3.8065	0	50	7.6*	10	130
Butylbenzylphthalate	1	50.3736	0	50	101	50	130
3,3'-Dichlorobenzidine	1	29.5118	0	50	59	10	130
Benzo[a]anthracene	1	45.3665	0	50	91	70	130
Chrysene	1	44.8647	0	50	90	60	130
bis(2-Ethylhexyl)phthalate	1	50.5854	0	50	101	70	130
Di-n-octylphthalate	1	53.639	0	50	107	70	130
Benzo[b]fluoranthene	1	50.7348	0	50	101	70	130
Benzo[k]fluoranthene	1	45.4156	0	50	91	70	130
Benzo[a]pyrene	1	46.1418	0	50	92	70	130
Indeno[1,2,3-cd]pyrene	1	48.2612	0	50	97	70	130
Dibenzo[a,h]anthracene	1	45.9901	0	50	92	60	130
Benzo[g,h,i]perylene	1	43.6811	0	50	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103408
Blank Data File: 9M116527.D
Matrix: Soil

Blank Analysis Date: 10/26/22 15:28
Blank Extraction Date: 10/25/22
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD33915-001(5X)	9M116504.D	10/25/22 17:40
AD33915-002(5X)	9M116503.D	10/25/22 17:17
AD33915-003(10X)	9M116500.D	10/25/22 16:08
AD33915-004(10X)	9M116501.D	10/25/22 16:31
SMB103408(MS)	10M93488.D	10/25/22 13:43
AD33982-003(5X)(	9M116507.D	10/25/22 18:49
AD33982-003(5X)(	9M116506.D	10/25/22 18:26
AD33982-003(5X)	9M116505.D	10/25/22 18:03

FORM 4
Blank Summary

Blank Number: SMB103438
Blank Data File: 9M116584.D
Matrix: Soil

Blank Analysis Date: 10/28/22 10:33
Blank Extraction Date: 10/27/22
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD33915-005(5X)(	9M116563.D	10/27/22 12:59
SMB103438(MS)	7M124776.D	10/28/22 09:21

Form 5

Tune Name: CAL DFTPP **Data File:** 10M92863.D
Instrument: GCMS 10 **Analysis Date:** 09/21/22 08:29
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.039 to 10.044 min

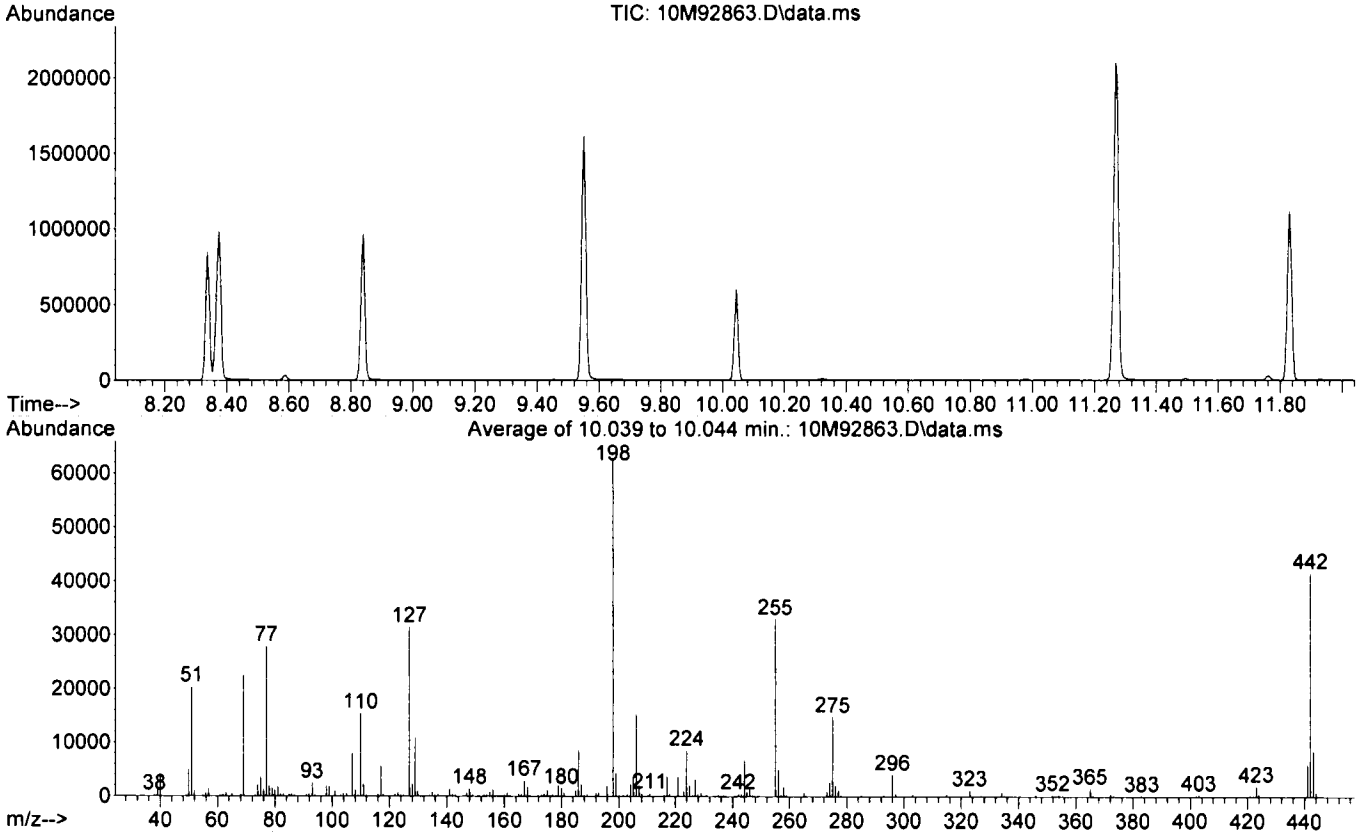
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	32.4	20360	PASS
68	69	0.00	2	1.7	390	PASS
69	198	0.00	100	36.0	22620	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.1	31496	PASS
197	198	0.00	1	0.3	190	PASS
198	198	100	100	100.0	62804	PASS
199	198	5	9	6.8	4289	PASS
275	198	10	30	23.6	14838	PASS
365	198	1	100	2.5	1576	PASS
441	443	0.01	100	70.3	6003	PASS
442	198	40	100	66.1	41484	PASS
443	442	17	23	20.6	8536	PASS

Data File	Sample Number	Analysis Date:
10M92864.D	CAL BNA@2PPM	09/21/22 08:56
10M92865.D	CAL BNA@10PPM	09/21/22 09:19
10M92866.D	CAL BNA@0.5PP	09/21/22 09:44
10M92867.D	CAL BNA@196PP	09/21/22 10:10
10M92868.D	CAL BNA@160PP	09/21/22 10:32
10M92869.D	CAL BNA@120PP	09/21/22 10:55
10M92870.D	CAL BNA@80PPM	09/21/22 11:17
10M92871.D	CAL BNA@20PPM	09/21/22 11:39
10M92872.D	CAL BNA@50PPM	09/21/22 12:02
10M92873.D	ICV BNA@50PPM	09/21/22 12:30

Data Path : G:\GcMsData\2022\GCMS_10\Data\09-21-22\
Data File : 10M92863.D
Acq On : 21 Sep 2022 8:29
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_10\MethodQt\10M_0809.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Aug 09 12:29:34 2022



Spectrum Information: Average of 10.039 to 10.044 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.4	20360	PASS
68	69	0.00	2	1.7	390	PASS
69	198	0.00	100	36.0	22620	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.1	31496	PASS
197	198	0.00	1	0.3	190	PASS
198	198	100	100	100.0	62804	PASS
199	198	5	9	6.8	4289	PASS
275	198	10	30	23.6	14838	PASS
365	198	1	100	2.5	1576	PASS
441	443	0.01	100	70.3	6003	PASS
442	198	40	100	66.1	41484	PASS
443	442	17	23	20.6	8536	PASS

ICT

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 9
Data File: 9M115646.D
Analysis Date: 09/21/22 08:32
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.045 to 10.051 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.7	37428	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.9	34868	PASS
70	69	0.00	2	0.6	225	PASS
127	198	40	60	52.2	46808	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	89684	PASS
199	198	5	9	6.8	6102	PASS
275	198	10	30	21.9	19650	PASS
365	198	1	100	2.4	2115	PASS
441	443	0.01	100	77.7	8109	PASS
442	198	40	100	58.6	52516	PASS
443	442	17	23	19.9	10442	PASS

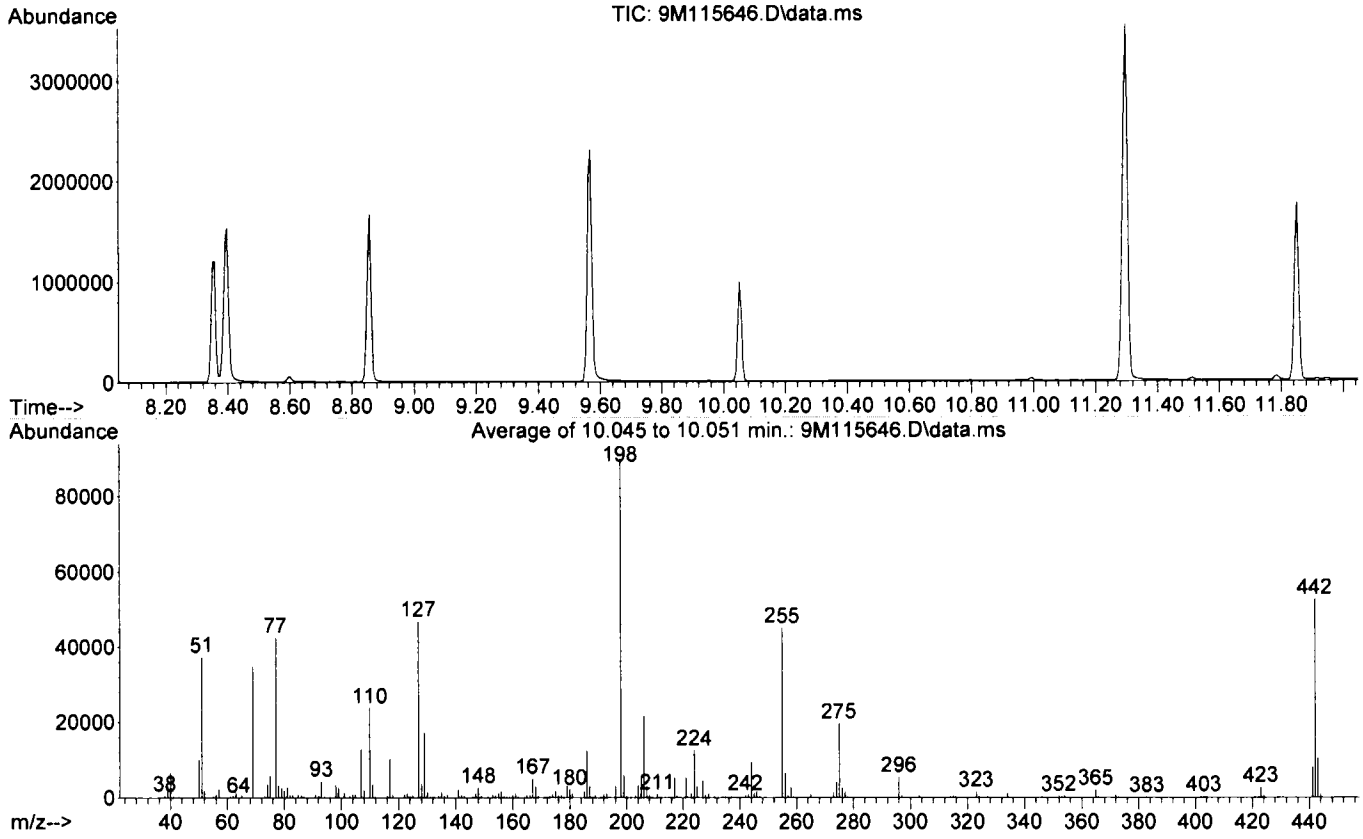
Data File	Sample Number	Analysis Date:
9M115647.D	CAL BNA@2PPM	09/21/22 08:59
9M115648.D	CAL BNA@10PPM	09/21/22 09:22
9M115649.D	CAL BNA@196PP	09/21/22 09:48
9M115650.D	CAL BNA@160PP	09/21/22 10:11
9M115651.D	CAL BNA@120PP	09/21/22 10:34
9M115652.D	CAL BNA@80PPM	09/21/22 10:58
9M115653.D	CAL BNA@20PPM	09/21/22 11:21
9M115654.D	CAL BNA@0.5PP	09/21/22 11:44
9M115655.D	CAL BNA@50PPM	09/21/22 12:07
9M115656.D	ICV BNA@50PPM	09/21/22 12:37

DFTPP

Data Path : G:\GcMsData\2022\GCMS_9\Data\09-21-22\
Data File : 9M115646.D
Acq On : 21 Sep 2022 8:32
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0818.M
Title : @GCMS_9,mg,625,8270
Last Update : Thu Aug 18 15:19:18 2022



Spectrum Information: Average of 10.045 to 10.051 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.7	37428	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.9	34868	PASS
70	69	0.00	2	0.6	225	PASS
127	198	40	60	52.2	46808	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	89684	PASS
199	198	5	9	6.8	6102	PASS
275	198	10	30	21.9	19650	PASS
365	198	1	100	2.4	2115	PASS
441	443	0.01	100	77.7	8109	PASS
442	198	40	100	58.6	52516	PASS
443	442	17	23	19.9	10442	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M124015.D
Instrument: GCMS 7 **Analysis Date:** 09/21/22 08:32
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.967 to 9.973 min

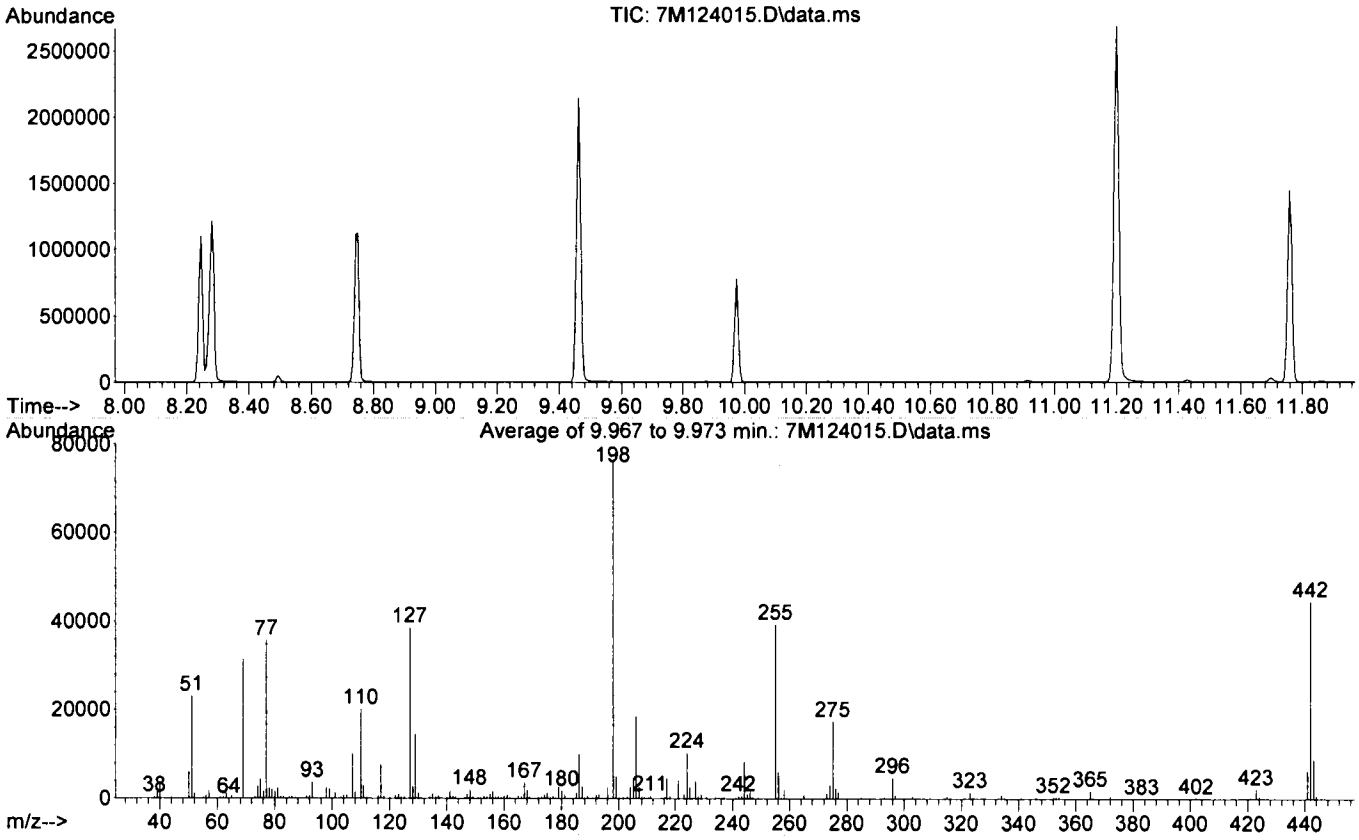
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	30.4	23244	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.4	31636	PASS
70	69	0.00	2	0.3	88	PASS
127	198	40	60	50.6	38692	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76436	PASS
199	198	5	9	6.7	5147	PASS
275	198	10	30	22.9	17472	PASS
365	198	1	100	2.4	1867	PASS
441	443	0.01	100	72.1	6423	PASS
442	198	40	100	58.3	44600	PASS
443	442	17	23	20.0	8906	PASS

Data File	Sample Number	Analysis Date:
7M124016.D	CAL BNA@10PPM	09/21/22 08:57
7M124017.D	CAL BNA@2PPM	09/21/22 09:22
7M124018.D	CAL BNA@196PP	09/21/22 09:46
7M124019.D	CAL BNA@160PP	09/21/22 10:10
7M124020.D	CAL BNA@120PP	09/21/22 10:37
7M124021.D	CAL BNA@80PPM	09/21/22 11:01
7M124022.D	CAL BNA@20PPM	09/21/22 11:25
7M124023.D	CAL BNA@0.5PP	09/21/22 11:49
7M124024.D	CAL BNA@50PPM	09/21/22 12:13
7M124025.D	ICV BNA@50PPM	09/21/22 12:45
7M124026.D	2PPM TEST	09/21/22 13:11
7M124027.D	WMB103058(MS)	09/21/22 13:35
7M124028.D	WMB103058	09/21/22 13:59
7M124029.D	AD33294-001	09/21/22 14:23
7M124030.D	AD33294-002	09/21/22 14:48
7M124031.D	AD33336-002(MS)	09/21/22 15:12
7M124032.D	AD33336-002(MSD	09/21/22 15:36
7M124033.D	AD33336-002	09/21/22 16:00
7M124034.D	AD33336-005	09/21/22 16:24
7M124035.D	AD33336-008	09/21/22 16:48
7M124036.D	AD33336-011	09/21/22 17:13
7M124037.D	AD33336-014	09/21/22 17:37
7M124038.D	AD33336-017	09/21/22 18:01
7M124039.D	AD33336-020	09/21/22 18:25
7M124040.D	AD33336-021	09/21/22 18:49
7M124041.D	AD33336-022	09/21/22 19:14
7M124042.D	AD33336-023	09/21/22 19:38
7M124043.D	AD33336-012	09/21/22 20:02

Data Path : G:\GcMsData\2022\GCMS_7\Data\09-21-22\
Data File : 7M124015.D
Acq On : 21 Sep 2022 8:32
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_7\MethodQt\7M_0819.M
Title : @GCMS_7,mg,625,8270
Last Update : Fri Aug 19 13:52:17 2022



Spectrum Information: Average of 9.967 to 9.973 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.4	23244	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.4	31636	PASS
70	69	0.00	2	0.3	88	PASS
127	198	40	60	50.6	38692	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76436	PASS
199	198	5	9	6.7	5147	PASS
275	198	10	30	22.9	17472	PASS
365	198	1	100	2.4	1867	PASS
441	443	0.01	100	72.1	6423	PASS
442	198	40	100	58.3	44600	PASS
443	442	17	23	20.0	8906	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M116480.D
Instrument: GCMS 9 **Analysis Date:** 10/25/22 08:00
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.033 to 10.039 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	46.6	32872	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.4	35564	PASS
70	69	0.00	2	1.0	343	PASS
127	198	40	60	56.9	40116	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	70552	PASS
199	198	5	9	7.2	5061	PASS
275	198	10	30	29.2	20576	PASS
365	198	1	100	4.0	2799	PASS
441	443	0.01	100	82.6	7484	PASS
442	198	40	100	71.2	50204	PASS
443	442	17	23	18.0	9060	PASS

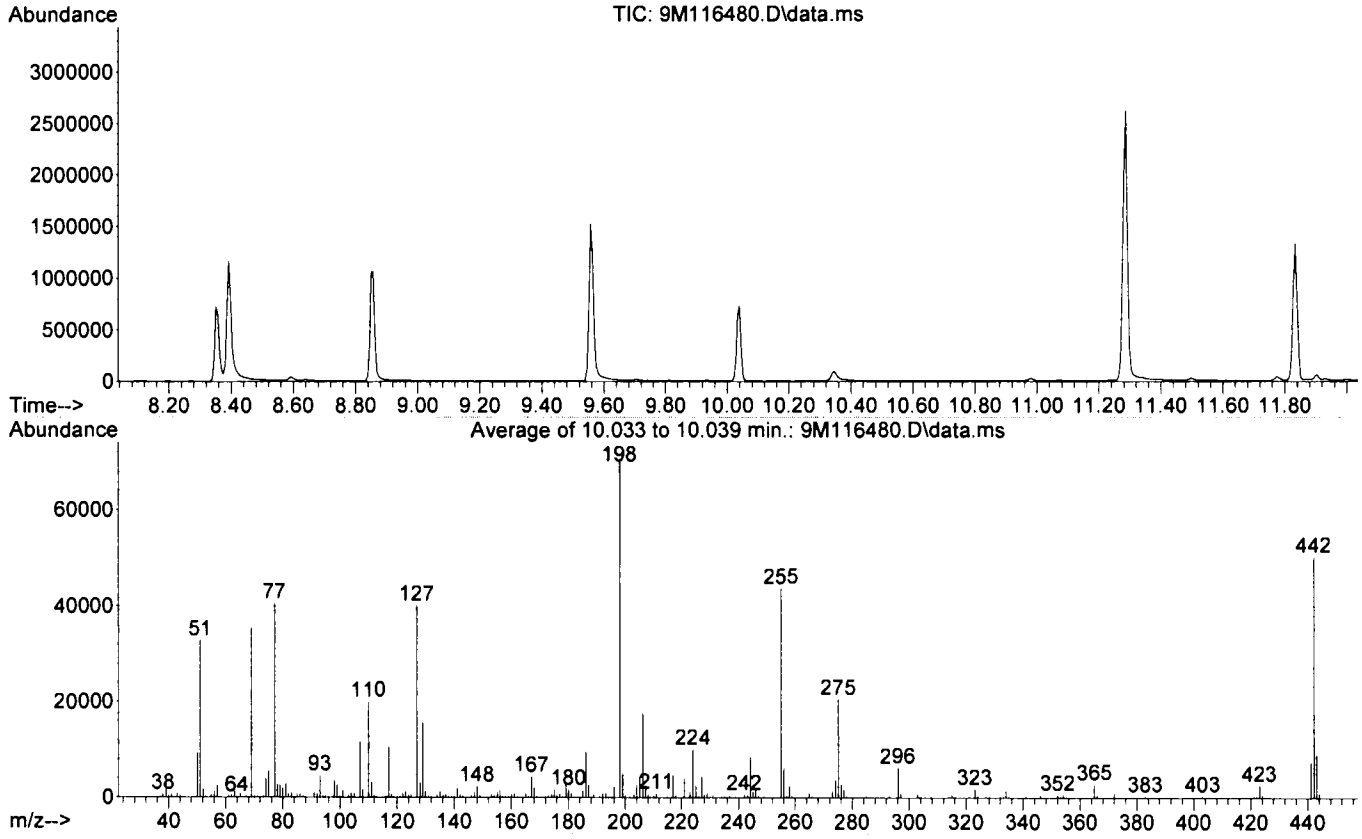
Data File	Sample Number	Analysis Date:
9M116481.D	CAL BNA@50PPM	10/25/22 08:24
9M116482.D	AD33998-015	10/25/22 08:48
9M116483.D	AD33998-019	10/25/22 09:11
9M116484.D	AD33998-041	10/25/22 09:34
9M116485.D	AD33998-043	10/25/22 09:56
9M116486.D	AD33998-047	10/25/22 10:19
9M116487.D	AD33998-049	10/25/22 10:42
9M116488.D	AD33998-027	10/25/22 11:05
9M116489.D	AD33998-025(3X)	10/25/22 11:28
9M116490.D	AD33998-031(3X)	10/25/22 11:51
9M116491.D	AD33998-037(3X)	10/25/22 12:14
9M116492.D	AD33998-033(3X)	10/25/22 12:37
9M116493.D	AD33998-023(3X)	10/25/22 13:00
9M116494.D	AD33998-039(5X)	10/25/22 13:23
9M116495.D	AD33998-045(5X)	10/25/22 13:46
9M116496.D	AD33998-051(5X)	10/25/22 14:09
9M116497.D	AD33998-021(5X)	10/25/22 14:58
9M116498.D	SMB103408	10/25/22 15:22
9M116499.D	AD33998-017(5X)	10/25/22 15:45
9M116500.D	AD33915-003(10X)	10/25/22 16:08
9M116501.D	AD33915-004(10X)	10/25/22 16:31
9M116502.D	AD33915-005(3X)	10/25/22 16:54
9M116503.D	AD33915-002(5X)	10/25/22 17:17
9M116504.D	AD33915-001(5X)	10/25/22 17:40
9M116505.D	AD33982-003(5X)	10/25/22 18:03
9M116506.D	AD33982-003(5X)(	10/25/22 18:26
9M116507.D	AD33982-003(5X)(	10/25/22 18:49

DFTPP

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-25-22\
Data File : 9M116480.D
Acq On : 25 Oct 2022 8:00
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0921.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Sep 21 12:32:21 2022



Spectrum Information: Average of 10.033 to 10.039 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.6	32872	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	50.4	35564	PASS
70	69	0.00	2	1.0	343	PASS
127	198	40	60	56.9	40116	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	70552	PASS
199	198	5	9	7.2	5061	PASS
275	198	10	30	29.2	20576	PASS
365	198	1	100	4.0	2799	PASS
441	443	0.01	100	82.6	7484	PASS
442	198	40	100	71.2	50204	PASS
443	442	17	23	18.0	9060	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 10M93474.D
Instrument: GCMS 10 **Analysis Date:** 10/25/22 08:06
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.028 to 10.034 min

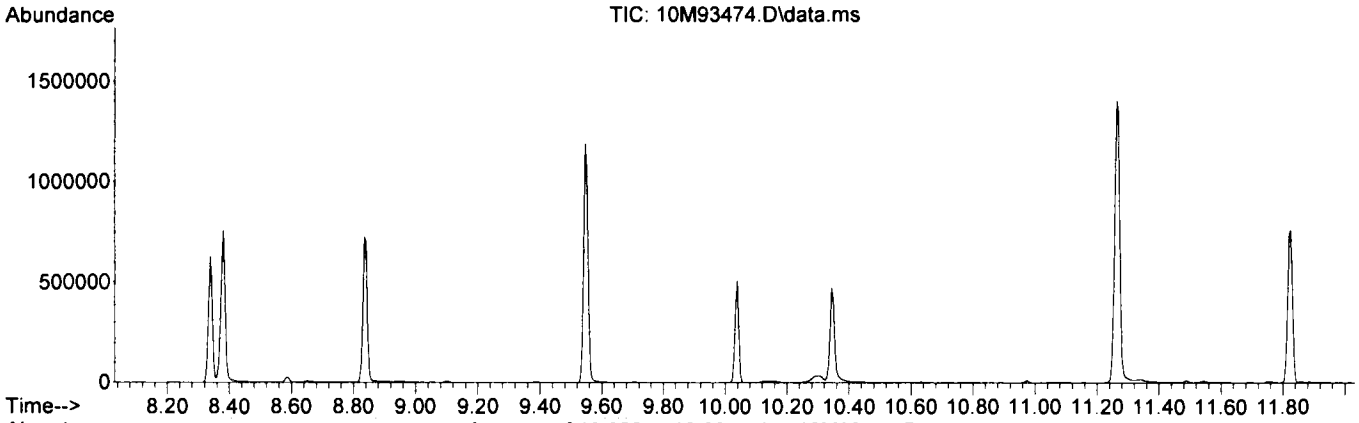
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	43.7	13051	PASS
68	69	0.00	2	1.7	232	PASS
69	198	0.00	100	45.8	13673	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.1	15552	PASS
197	198	0.00	1	0.6	194	PASS
198	198	100	100	100.0	29845	PASS
199	198	5	9	6.6	1970	PASS
275	198	10	30	24.1	7185	PASS
365	198	1	100	3.2	947	PASS
441	443	0.01	100	68.6	3010	PASS
442	198	40	100	65.9	19667	PASS
443	442	17	23	22.3	4389	PASS

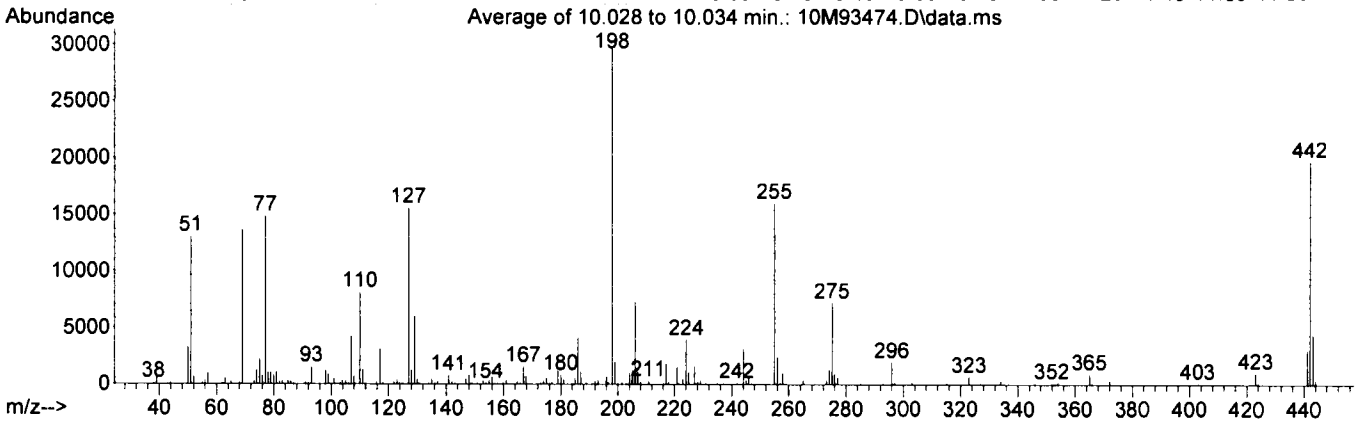
Data File	Sample Number	Analysis Date:
10M93475.D	CAL BNA@50PPM	10/25/22 08:28
10M93476.D	WMB103391(MS)	10/25/22 08:53
10M93477.D	AD33965-001	10/25/22 09:15
10M93478.D	AD33965-002	10/25/22 09:37
10M93479.D	AD33965-003	10/25/22 10:00
10M93480.D	AD33970-002	10/25/22 10:22
10M93481.D	AD33970-005	10/25/22 10:44
10M93482.D	AD34021-002	10/25/22 11:07
10M93483.D	AD34022-002	10/25/22 11:29
10M93484.D	AD33982-007	10/25/22 11:51
10M93485.D	OMB103397(MS)	10/25/22 12:14
10M93486.D	OMB103397	10/25/22 12:36
10M93487.D	AD34022-002(10X)	10/25/22 12:59
10M93488.D	SMB103408(MS)	10/25/22 13:43

Data Path : G:\GcMsData\2022\GCMS_10\Data\10-25-22\
Data File : 10M93474.D
Acq On : 25 Oct 2022 8:06
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_10\MethodQt\10M_0921.M
Title : @GCMS_10,mg,625,8270
Last Update : Wed Sep 21 12:22:43 2022





Spectrum Information: Average of 10.028 to 10.034 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	43.7	13051	PASS
68	69	0.00	2	1.7	232	PASS
69	198	0.00	100	45.8	13673	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	52.1	15552	PASS
197	198	0.00	1	0.6	194	PASS
198	198	100	100	100.0	29845	PASS
199	198	5	9	6.6	1970	PASS
275	198	10	30	24.1	7185	PASS
365	198	1	100	3.2	947	PASS
441	443	0.01	100	68.6	3010	PASS
442	198	40	100	65.9	19667	PASS
443	442	17	23	22.3	4389	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M116524.D
Instrument: GCMS 9 **Analysis Date:** 10/26/22 14:19
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.039 to 10.045 min

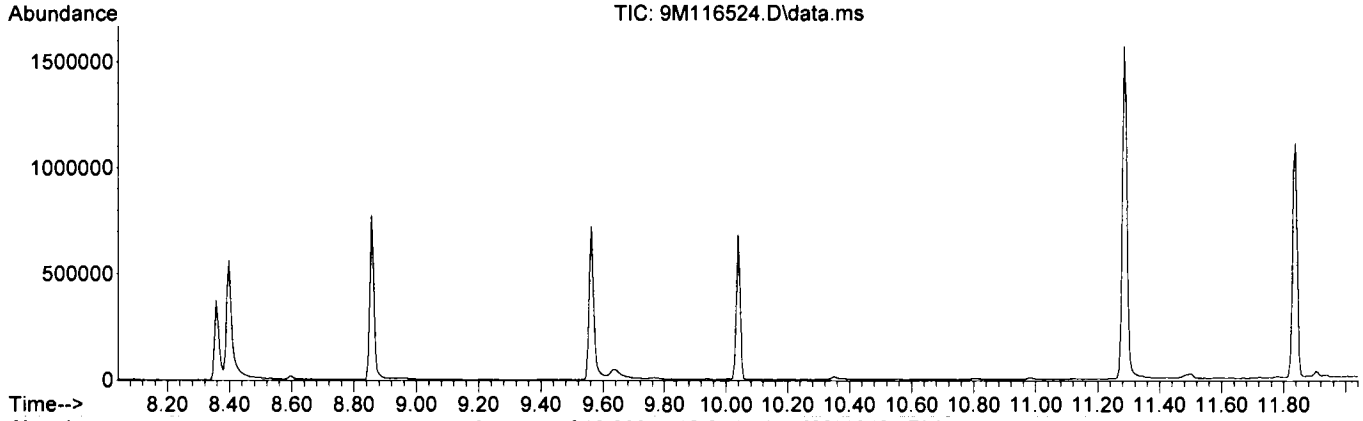
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.5	25591	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.8	27884	PASS
70	69	0.00	2	0.9	252	PASS
127	198	40	60	56.6	30472	PASS
197	198	0.00	1	0.4	229	PASS
198	198	100	100	100.0	53836	PASS
199	198	5	9	6.8	3682	PASS
275	198	10	30	29.5	15887	PASS
365	198	1	100	4.8	2570	PASS
441	443	0.01	100	83.7	7794	PASS
442	198	40	100	91.1	49068	PASS
443	442	17	23	19.0	9308	PASS

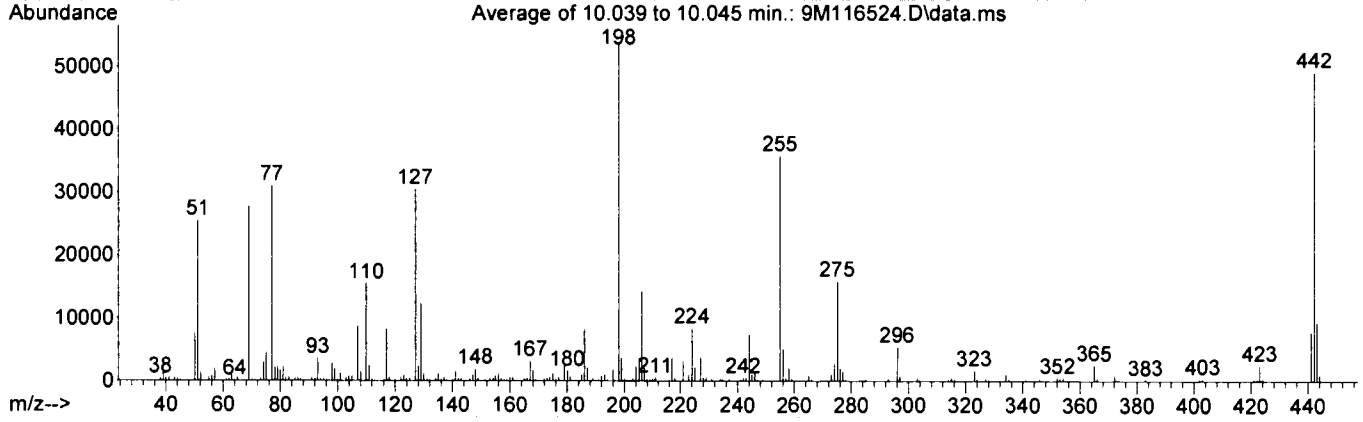
Data File	Sample Number	Analysis Date:
9M116525.D	CAL BNA@50PPM	10/26/22 14:42
9M116526.D	SMB103411	10/26/22 15:05
9M116527.D	SMB103408	10/26/22 15:28
9M116528.D	OMB103419	10/26/22 15:51
9M116529.D	AD34121-001	10/26/22 16:14
9M116530.D	AD34076-002	10/26/22 16:37
9M116531.D	AD34035-001	10/26/22 17:01
9M116532.D	AD34018-001	10/26/22 17:24
9M116533.D	AD34011-001	10/26/22 17:47
9M116534.D	AD34011-004	10/26/22 18:10
9M116535.D	AD34042-001	10/26/22 18:33
9M116536.D	AD34042-002	10/26/22 18:55
9M116537.D	AD34042-003	10/26/22 19:18
9M116538.D	AD34010-001(MS)	10/26/22 19:41
9M116539.D	AD34010-001(MSD	10/26/22 20:04
9M116540.D	AD33919-005(3X)	10/26/22 20:27
9M116541.D	AD33919-005(3X)(	10/26/22 20:50
9M116542.D	AD33919-005(3X)(	10/26/22 21:13
9M116543.D	AD34029-010(5X)	10/26/22 21:36
9M116544.D	AD34029-008(3X)	10/26/22 21:59
9M116545.D	AD34029-006(3X)	10/26/22 22:22
9M116546.D	AD34029-004(3X)	10/26/22 22:45
9M116547.D	AD34029-002(3X)	10/26/22 23:08
9M116548.D	AD34098-004(3X)	10/26/22 23:31
9M116549.D	AD34099-004(3X)	10/26/22 23:54
9M116550.D	915-005(5X)	10/27/22 00:17

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-2622\
Data File : 9M116524.D
Acq On : 26 Oct 2022 14:19
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0921.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Sep 21 12:32:21 2022





Spectrum Information: Average of 10.039 to 10.045 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.5	25591	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	51.8	27884	PASS
70	69	0.00	2	0.9	252	PASS
127	198	40	60	56.6	30472	PASS
197	198	0.00	1	0.4	229	PASS
198	198	100	100	100.0	53836	PASS
199	198	5	9	6.8	3682	PASS
275	198	10	30	29.5	15887	PASS
365	198	1	100	4.8	2570	PASS
441	443	0.01	100	83.7	7794	PASS
442	198	40	100	91.1	49068	PASS
443	442	17	23	19.0	9308	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M116551.D
Instrument: GCMS 9 **Analysis Date:** 10/27/22 08:19
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.022 to 10.034 min

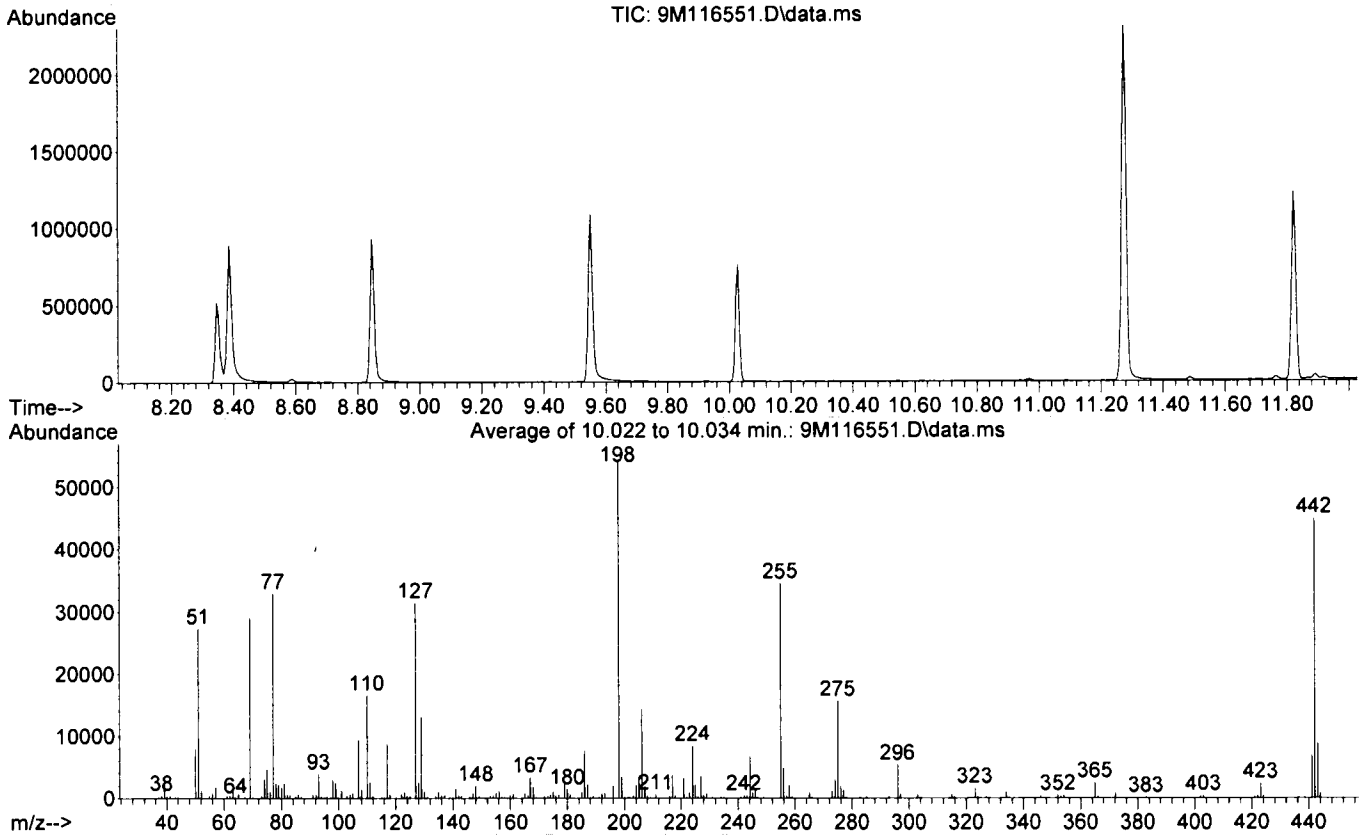
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	50.4	27384	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.8	29222	PASS
70	69	0.00	2	0.8	231	PASS
127	198	40	60	57.9	31483	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	54339	PASS
199	198	5	9	6.5	3547	PASS
275	198	10	30	28.9	15698	PASS
365	198	1	100	4.7	2530	PASS
441	443	0.01	100	78.4	6913	PASS
442	198	40	100	82.4	44784	PASS
443	442	17	23	19.7	8815	PASS

Data File	Sample Number	Analysis Date:
9M116552.D	CAL BNA@50PPM	10/27/22 08:41
9M116553.D	SMB103418(MS)	10/27/22 09:10
9M116554.D	SMB103418	10/27/22 09:33
9M116555.D	AD34055-006(5X)	10/27/22 09:56
9M116556.D	AD34055-002(10X)	10/27/22 10:18
9M116557.D	AD34062-001(3X)	10/27/22 10:42
9M116558.D	AD34011-004(10X)	10/27/22 11:04
9M116559.D	AD34042-001(10X)	10/27/22 11:27
9M116560.D	AD34042-002(10X)	10/27/22 11:50
9M116561.D	AD34042-003(10X)	10/27/22 12:13
9M116562.D	AD34075-002(5X)	10/27/22 12:36
9M116563.D	AD33915-005(5X)(	10/27/22 12:59
9M116564.D	AD34042-001(30X)	10/27/22 13:22
9M116565.D	AD34042-003(30X)	10/27/22 13:45
9M116566.D	AD34055-004	10/27/22 14:08
9M116567.D	AD34053-003	10/27/22 14:31
9M116568.D	AD34079-001	10/27/22 14:54
9M116569.D	AD34086-002(MS)	10/27/22 15:17
9M116570.D	AD34086-002(MSD	10/27/22 15:40
9M116571.D	AD34086-002	10/27/22 16:03
9M116572.D	AD34086-004	10/27/22 16:26
9M116573.D	AD34086-006	10/27/22 16:49
9M116574.D	AD34088-002	10/27/22 17:12
9M116575.D	AD34088-004	10/27/22 17:34
9M116576.D	AD34088-006	10/27/22 17:57
9M116577.D	AD34087-002	10/27/22 18:20
9M116578.D	AD34087-004	10/27/22 18:43
9M116579.D	AD34087-006	10/27/22 19:06
9M116580.D	AD34076-001(10X)	10/27/22 19:29

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-27-22\
Data File : 9M116551.D
Acq On : 27 Oct 2022 8:19
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0921.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Sep 21 12:32:21 2022



Spectrum Information: Average of 10.022 to 10.034 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	50.4	27384	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	53.8	29222	PASS
70	69	0.00	2	0.8	231	PASS
127	198	40	60	57.9	31483	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	54339	PASS
199	198	5	9	6.5	3547	PASS
275	198	10	30	28.9	15698	PASS
365	198	1	100	4.7	2530	PASS
441	443	0.01	100	78.4	6913	PASS
442	198	40	100	82.4	44784	PASS
443	442	17	23	19.7	8815	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M124774.D
Instrument: GCMS 7 **Analysis Date:** 10/28/22 08:33
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.967 to 9.967 min

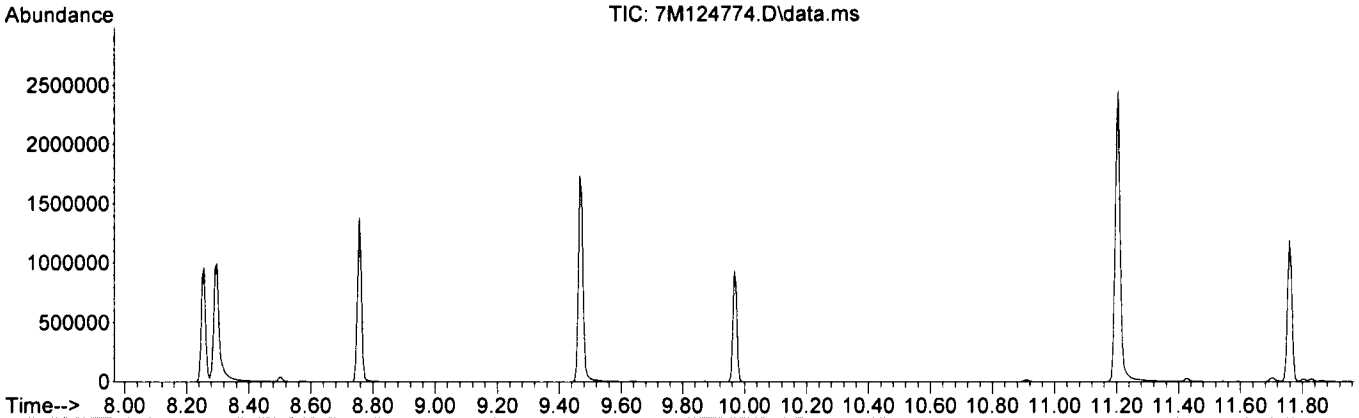
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	33.1	37192	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.1	50776	PASS
70	69	0.00	2	0.5	265	PASS
127	198	40	60	53.3	60000	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	112488	PASS
199	198	5	9	6.3	7098	PASS
275	198	10	30	23.5	26488	PASS
365	198	1	100	2.3	2554	PASS
441	443	0.01	100	69.6	9466	PASS
442	198	40	100	56.1	63088	PASS
443	442	17	23	21.6	13609	PASS

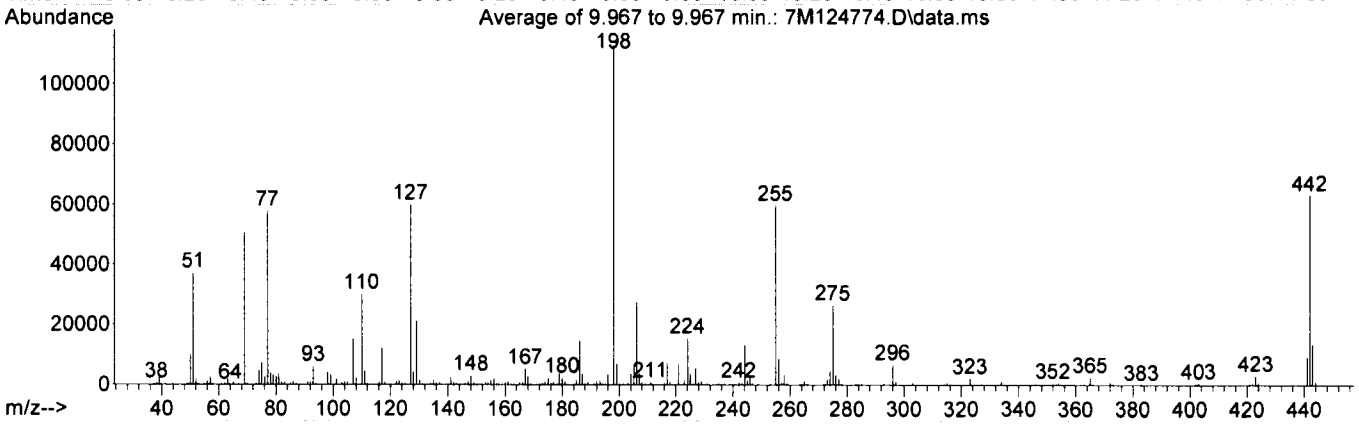
Data File	Sample Number	Analysis Date:
7M124775.D	CAL BNA@50PPM	10/28/22 08:57
7M124776.D	SMB103438(MS)	10/28/22 09:21
7M124777.D	SMB103417(MS)	10/28/22 09:45
7M124778.D	103444	10/28/22 10:09
7M124779.D	OMB103444	10/28/22 10:33
7M124780.D	AD34132-001(5X)	10/28/22 10:57
7M124781.D	AD34132-001(5X)(	10/28/22 11:20
7M124782.D	AD34132-001(5X)(	10/28/22 11:45
7M124783.D	SMB103438	10/28/22 12:08
7M124784.D	SMB103417	10/28/22 12:32
7M124785.D	AD34111-001	10/28/22 12:56
7M124786.D	AD34111-001(MS)	10/28/22 13:20
7M124787.D	AD34111-001(MSD	10/28/22 13:44
7M124788.D	OMB103444(MS)	10/28/22 14:08

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-28-22\
Data File : 7M124774.D
Acq On : 28 Oct 2022 8:33
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_7\MethodQt\7M_0921.M
Title : @GCMS_7,mg,625,8270
Last Update : Wed Sep 21 12:40:38 2022





Spectrum Information: Average of 9.967 to 9.967 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.1	37192	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	45.1	50776	PASS
70	69	0.00	2	0.5	265	PASS
127	198	40	60	53.3	60000	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	112488	PASS
199	198	5	9	6.3	7098	PASS
275	198	10	30	23.5	26488	PASS
365	198	1	100	2.3	2554	PASS
441	443	0.01	100	69.6	9466	PASS
442	198	40	100	56.1	63088	PASS
443	442	17	23	21.6	13609	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 9M116582.D
Instrument: GCMS 9 **Analysis Date:** 10/28/22 09:47
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.022 to 10.034 min

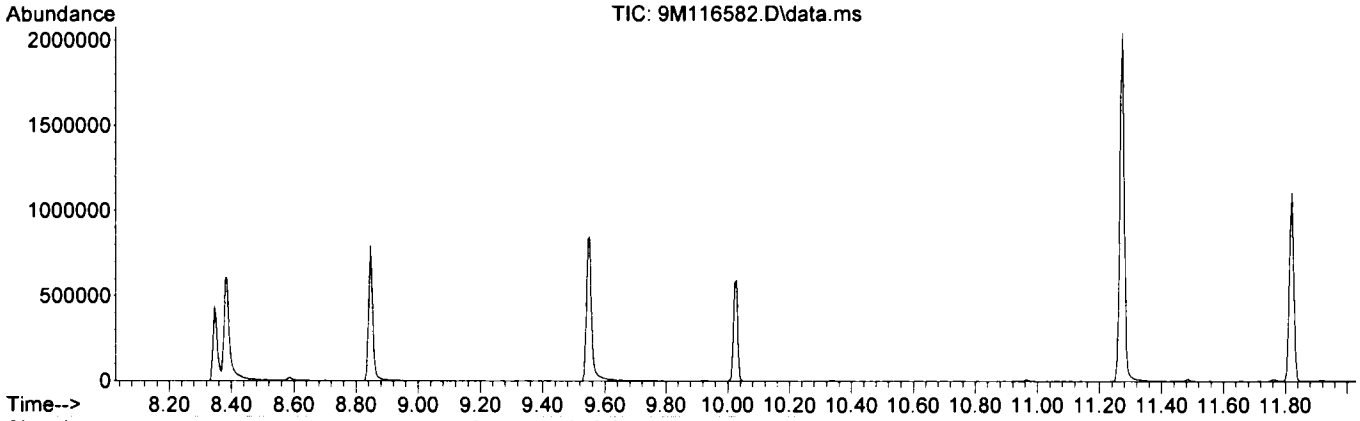
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	35.2	17124	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.2	19585	PASS
70	69	0.00	2	0.6	117	PASS
127	198	40	60	49.3	23991	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	48672	PASS
199	198	5	9	7.1	3467	PASS
275	198	10	30	29.3	14266	PASS
365	198	1	100	4.2	2063	PASS
441	443	0.01	100	81.4	5858	PASS
442	198	40	100	75.2	36616	PASS
443	442	17	23	19.6	7195	PASS

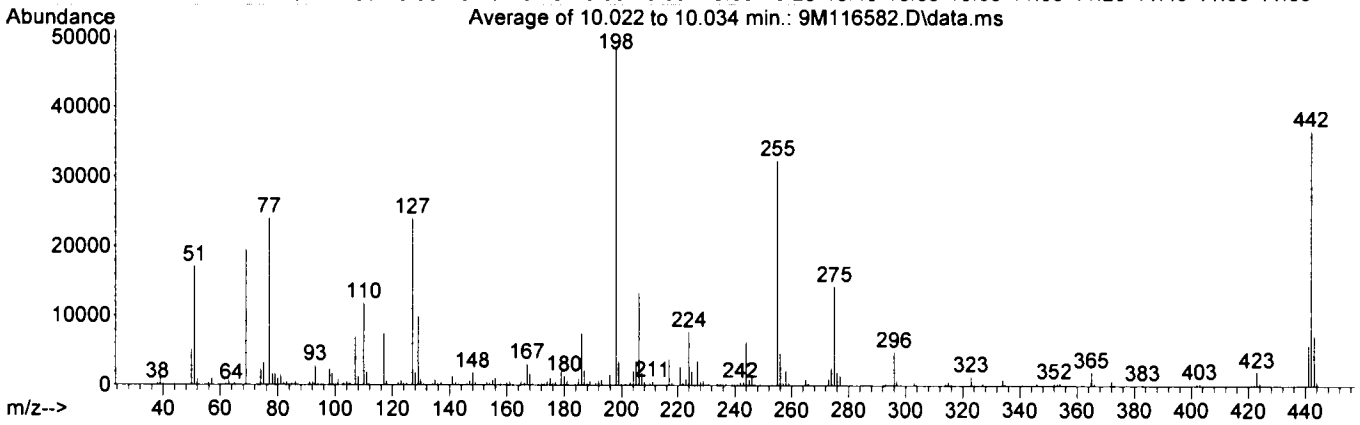
Data File	Sample Number	Analysis Date:
9M116583.D	CAL BNA@50PPM	10/28/22 10:10
9M116584.D	SMB103438	10/28/22 10:33
9M116585.D	SMB103417	10/28/22 10:55
9M116586.D	AD34118-001(5X)	10/28/22 11:18
9M116587.D	AD34101-001(5X)	10/28/22 11:41
9M116588.D	AD34096-001	10/28/22 12:04
9M116589.D	AD34079-001(3X)	10/28/22 12:27
9M116590.D	AD34087-002	10/28/22 12:50
9M116591.D	AD34087-006	10/28/22 13:13
9M116592.D	AD34096-007	10/28/22 13:36
9M116593.D	AD34096-023	10/28/22 13:58
9M116595.D	AD34096-013(5X)	10/28/22 14:21
9M116596.D	AD34096-009(10X)	10/28/22 14:44
9M116597.D	AD34101-001(25X)	10/28/22 15:07
9M116598.D	AD34101-001(25X)	10/28/22 15:30
9M116599.D	AD34101-001(25X)	10/28/22 15:52
9M116600.D	AD34096-021	10/28/22 16:15
9M116601.D	AD34096-005	10/28/22 16:38
9M116602.D	AD34096-003(3X)	10/28/22 17:01
9M116603.D	AD34096-011(3X)	10/28/22 17:24
9M116604.D	AD34096-015(3X)	10/28/22 17:47
9M116605.D	AD34096-017(3X)	10/28/22 18:10
9M116606.D	AD34096-019(5X)	10/28/22 18:32
9M116607.D	AD34096-009(100X	10/28/22 18:55

Data Path : G:\GcMsData\2022\GCMS_9\Data\10-28-22\
Data File : 9M116582.D
Acq On : 28 Oct 2022 9:47
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_9\MethodQt\9M_0921.M
Title : @GCMS_9,mg,625,8270
Last Update : Wed Sep 21 12:32:21 2022





Spectrum Information: Average of 10.022 to 10.034 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	35.2	17124	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.2	19585	PASS
70	69	0.00	2	0.6	117	PASS
127	198	40	60	49.3	23991	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	48672	PASS
199	198	5	9	7.1	3467	PASS
275	198	10	30	29.3	14266	PASS
365	198	1	100	4.2	2063	PASS
441	443	0.01	100	81.4	5858	PASS
442	198	40	100	75.2	36616	PASS
443	442	17	23	19.6	7195	PASS

2101501 0105

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	10M92872.D	CAL BNA@50PPM	09/21/22 12:02	2	10M92864.D	CAL BNA@2PPM	09/21/22 08:56
3	10M92865.D	CAL BNA@10PPM	09/21/22 09:19	4	10M92871.D	CAL BNA@20PPM	09/21/22 11:39
5	10M92870.D	CAL BNA@80PPM	09/21/22 11:17	6	10M92869.D	CAL BNA@120PPM	09/21/22 10:55
7	10M92868.D	CAL BNA@160PPM	09/21/22 10:32	8	10M92867.D	CAL BNA@196PPM	09/21/22 10:10
9	10M92866.D	CAL BNA@0.5PPM	09/21/22 09:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9406	1.0317	1.0203	0.9770	0.9599	0.9642	0.9691	0.9869	1.0603	0.990	2.74	1.00	1.00	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Qua	1.7687	1.0737	1.3580	1.6684	1.8880	1.9417	1.9577	1.9408	-----	1.70	3.21	1.00	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4594	1.0225	1.3319	1.4611	1.5205	1.5390	1.5531	1.5730	-----	1.43	3.15	1.00	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2072	1.8067	2.0272	2.2039	2.3263	2.3623	2.3851	2.3800	-----	2.21	4.69	0.999	1.00	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.6924	1.3018	1.6071	1.7214	1.7593	1.7542	1.7312	1.7273	-----	1.66	5.50	1.00	1.00	9.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3550	2.6628	3.0633	3.3133	3.5224	3.5624	3.5820	3.5484	3.2150	3.31	5.59	0.999	1.00	9.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8353	0.7484	0.8079	0.8363	0.8667	0.8733	0.8706	0.8630	-----	0.838	5.64	1.00	1.00	5.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4017	2.0970	2.3696	2.4682	2.4704	2.4536	2.4124	2.3599	2.4748	2.39	5.65	0.999	1.00	4.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.6423	2.1385	2.4133	2.6203	2.7816	2.7899	2.7668	2.7346	-----	2.61	5.56	1.00	1.00	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.2975	2.9324	3.1535	3.2898	3.4260	3.4090	3.3735	3.2947	-----	3.27	5.57	0.999	1.00	4.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.5308	2.2069	2.4005	2.5543	2.6641	2.6712	2.6434	2.6079	-----	2.53	5.70	1.00	1.00	6.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.2121	2.0556	2.2098	2.2934	2.2576	2.2065	2.1012	2.0082	-----	2.17	5.74	0.997	1.00	4.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.8342	2.5957	2.7295	2.8580	2.9265	2.9270	2.9218	2.8579	-----	2.83	5.82	1.00	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4944	1.4022	1.4887	1.4983	1.5676	1.5757	1.5743	1.5421	-----	1.52	5.89	1.00	1.00	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4081	1.3097	1.4081	1.4126	1.4730	1.4918	1.4853	1.4620	-----	1.43	6.01	1.00	1.00	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8360	0.6443	0.7633	0.8100	0.8805	0.8880	0.8942	0.8796	-----	0.825	5.98	1.00	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3785	1.3396	1.4279	1.4146	1.4012	1.3788	1.3481	1.3034	-----	1.37	6.10	0.999	1.00	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1557	0.9645	1.0900	1.1612	1.2187	1.2238	1.2235	1.2052	1.0647	1.15	6.07	1.00	1.00	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.5914	1.2677	1.5907	1.6188	1.6090	1.5065	1.3972	1.2961	-----	1.48	6.20	0.989	1.00	9.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5367	0.4814	0.5201	0.5347	0.5595	0.5608	0.5636	0.5560	-----	0.539	6.28	1.00	1.00	5.2	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8020	0.7018	0.8015	0.8181	0.8035	0.7592	0.7050	0.6849	0.8152	0.766	6.19	0.995	1.00	7.1	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2085	1.0409	1.1611	1.2118	1.2315	1.1680	1.0785	0.9961	1.0837	1.13	6.19	0.990	1.00	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1464	0.1098	0.1278	0.1447	0.1566	0.1597	0.1608	0.1589	-----	0.146	6.32	1.00	1.00	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3097	0.2722	0.2943	0.3132	0.3201	0.3224	0.3157	0.3083	-----	0.307	6.33	0.999	1.00	5.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.5836	0.4658	0.5412	0.5851	0.6075	0.6050	0.6027	0.5903	-----	0.573	6.52	1.00	1.00	8.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1809	0.1193	0.1482	0.1724	0.1945	0.1980	0.1995	0.1968	-----	0.176	6.58	1.00	1.00	16	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3130	0.2794	0.2954	0.3167	0.3255	0.3281	0.3234	0.3147	0.2792	0.308	6.61	0.999	1.00	6.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1739	-----	0.0629	0.1384	0.2225	0.2391	0.2483	0.2443	-----	0.190	6.67	0.998	0.998	37		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3703	0.3282	0.3568	0.3743	0.3911	0.3857	0.3832	0.3721	-----	0.370	6.67	0.999	1.00	5.4	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2734	0.2248	0.2486	0.2703	0.2897	0.2952	0.2945	0.2872	0.2281	0.268	6.76	0.999	0.999	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3105	0.2861	0.3025	0.3100	0.3227	0.3232	0.3207	0.3156	-----	0.311	6.82	1.00	1.00	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0113	0.9603	0.9844	1.0206	1.0517	1.0459	1.0175	0.9750	1.1020	1.02	6.89	0.998	1.00	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3726	0.3081	0.4536	0.3703	0.3871	0.3879	0.3765	0.3602	0.3122	0.370	6.92	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1656	0.1437	0.1579	0.1661	0.1756	0.1770	0.1777	0.1731	-----	0.167	6.98	0.999	1.00	7.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.0977	0.0504	0.0760	0.0946	0.1050	0.1067	0.1166	0.1155	-----	0.0954	7.20	0.997	0.999	23	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2587	0.2053	0.2367	0.2539	0.2770	0.2793	0.2779	0.2705	-----	0.257	7.28	0.999	0.999	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6656	0.5783	0.6306	0.6715	0.6905	0.6888	0.6690	0.6433	-----	0.655	7.42	0.998	1.00	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6489	0.5563	0.6173	0.6515	0.6622	0.6666	0.6510	0.6254	-----	0.635	7.50	0.998	1.00	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6562	0.5673	0.6216	0.6581	0.6805	0.6755	0.6582	0.6317	-----	0.644	7.42	0.998	1.00	5.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.7736	0.6896	0.7368	0.7768	0.8053	0.8005	0.7760	0.7476	-----	0.763	7.80	0.998	1.00	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5792	0.4712	0.5473	0.5840	0.6216	0.6123	0.6122	0.6004	-----	0.579	7.56	1.00	1.00	8.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 10.58
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M92872.D	CAL BNA@50PPM	09/21/22 12:02	2	10M92864.D	CAL BNA@2PPM	09/21/22 08:56
3	10M92865.D	CAL BNA@10PPM	09/21/22 09:19	4	10M92871.D	CAL BNA@20PPM	09/21/22 11:39
5	10M92870.D	CAL BNA@80PPM	09/21/22 11:17	6	10M92869.D	CAL BNA@120PPM	09/21/22 10:55
7	10M92868.D	CAL BNA@160PPM	09/21/22 10:32	8	10M92867.D	CAL BNA@196PPM	09/21/22 10:10
9	10M92866.D	CAL BNA@0.5PPM	09/21/22 09:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.2713	0.1752	0.2286	0.2537	0.3038	0.3062	0.3177	0.3203	-----	0.272	7.55	0.997	0.999	19	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3970	0.3038	0.3510	0.4024	0.4321	0.4336	0.4459	0.4382	-----	0.401	7.64	0.999	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3888	0.3156	0.3652	0.4247	0.4638	0.4671	0.4647	0.4671	-----	0.420	7.68	0.999	0.999	14	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3832	1.1887	1.3161	1.3905	1.4773	1.4865	1.5071	1.5118	-----	1.41	7.71	0.999	1.00	8.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2443	1.1061	1.1766	1.2564	1.3150	1.2932	1.2937	1.2728	-----	1.24	7.82	1.00	1.00	5.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0021	0.8791	0.9675	1.0117	1.0489	0.9997	0.9498	0.8985	-----	0.970	8.10	0.997	0.999	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0021	0.8791	0.9675	1.0117	1.0489	0.9997	0.9498	0.8985	-----	0.970	8.10	0.997	0.999	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8279	0.6695	0.7865	0.8366	0.8827	0.8806	0.8894	0.8735	-----	0.831	7.88	1.00	1.00	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3602	0.2646	0.3207	0.3677	0.3838	0.3727	0.3707	0.3655	-----	0.351	7.89	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4869	0.4026	0.4612	0.4871	0.5229	0.5135	0.5018	0.4779	-----	0.482	8.08	0.998	0.999	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8835	1.5951	1.7484	1.8964	2.0052	1.9873	1.9729	1.9444	-----	1.88	8.18	1.00	1.00	7.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3234	1.1538	1.2614	1.3540	1.4226	1.4065	1.4241	1.4099	-----	1.34	8.04	1.00	1.00	7.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3178	0.2233	0.2895	0.3158	0.3365	0.3202	0.3038	0.2871	-----	0.299	8.10	0.994	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2388	1.1117	1.1749	1.2507	1.3176	1.2787	1.2571	1.2278	-----	1.23	8.33	0.999	1.00	5.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3485	0.2575	0.3118	0.3506	0.3796	0.3757	0.3804	0.3758	-----	0.348	8.25	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1424	-----	0.0621	0.1078	0.1748	0.1853	0.1937	0.1916	-----	0.151	8.34	0.999	0.999	33	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7230	1.5783	1.6710	1.7462	1.8433	1.8261	1.8023	1.7865	1.8405	1.76	8.49	1.00	1.00	5.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4089	0.2401	0.3448	0.4014	0.4475	0.4475	0.4606	0.4623	-----	0.402	8.46	0.999	1.00	19	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2288	0.1318	0.1757	0.2162	0.2360	0.2434	0.2452	0.2464	-----	0.215	8.37	1.00	1.00	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3318	0.2076	0.2873	0.3210	0.3687	0.3709	0.3740	0.3781	-----	0.330	8.59	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4234	1.2038	1.3470	1.4469	1.5235	1.4875	1.4573	1.4137	-----	1.41	8.81	0.999	1.00	7.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6756	0.6153	0.6391	0.6855	0.7384	0.7309	0.7308	0.7195	-----	0.692	8.79	1.00	1.00	6.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3173	1.0732	1.2183	1.3154	1.4123	1.3970	1.3994	1.3847	-----	1.31	8.67	1.00	1.00	8.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3896	0.2285	0.3221	0.3824	0.4203	0.4154	0.4203	0.4211	-----	0.375	8.81	1.00	1.00	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.3682	0.2069	0.3117	0.3588	0.4065	0.4084	0.4178	0.4168	-----	0.362	9.43	0.999	1.00	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1036	-----	0.0658	0.0885	0.1175	0.1239	0.1292	0.1302	-----	0.108	8.84	0.999	1.00	22	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6060	0.4803	0.5668	0.6095	0.6469	0.6327	0.6374	0.6315	-----	0.601	8.91	1.00	1.00	9.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0880	0.0557	0.0740	0.0835	0.0989	0.1014	0.1048	0.1075	-----	0.0893	9.04	0.998	1.00	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6164	0.5043	0.5945	0.6309	0.6536	0.6243	0.6760	0.6657	-----	0.621	8.95	0.999	0.999	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1961	0.1566	0.1828	0.1950	0.2138	0.2149	0.2189	0.2199	-----	0.200	9.28	1.00	1.00	11	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2135	0.1884	0.2014	0.2124	0.2317	0.2308	0.2377	0.2397	-----	0.219	9.35	0.997	1.00	8.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.2764	0.1952	0.2550	0.2766	0.2915	0.2791	0.2710	0.2605	-----	0.263	9.62	0.997	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1211	-----	0.0815	0.1060	0.1398	0.1451	0.1505	0.1542	-----	0.128	9.55	0.999	1.00	21	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0321	0.9466	0.9906	1.0419	1.0932	1.0764	1.0641	1.0477	-----	1.04	9.79	1.00	1.00	4.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0519	0.8488	0.9795	1.0582	1.1256	1.0986	1.0954	1.0743	-----	1.04	9.84	0.999	1.00	8.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9674	0.7541	0.8767	0.9695	1.0378	1.0213	1.0191	1.0080	-----	0.957	10.01	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.1062	0.6891	0.9294	1.0805	1.1887	1.1685	1.1553	1.1281	0.7303	1.02	10.39	0.999	1.00	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.0913	0.8552	0.9849	1.0811	1.1851	1.1586	1.1504	1.1413	-----	1.08	11.11	1.00	1.00	10	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2571	1.0088	1.1615	1.2609	1.3499	1.3107	1.3181	1.2910	-----	1.24	11.38	0.999	1.00	8.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.6186	0.2780	0.4028	0.5533	0.6835	0.6681	0.6752	0.6633	-----	0.568	11.26	0.998	0.998	26		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6959	0.5609	0.6272	0.6885	0.7653	0.7476	0.7753	0.7923	-----	0.707	11.56	0.998	1.00	11		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.58
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M92872.D	CAL BNA@50PPM	09/21/22 12:02	2	10M92864.D	CAL BNA@2PPM	09/21/22 08:56
3	10M92865.D	CAL BNA@10PPM	09/21/22 09:19	4	10M92871.D	CAL BNA@20PPM	09/21/22 11:39
5	10M92870.D	CAL BNA@80PPM	09/21/22 11:17	6	10M92869.D	CAL BNA@120PPM	09/21/22 10:55
7	10M92868.D	CAL BNA@160PPM	09/21/22 10:32	8	10M92867.D	CAL BNA@196PPM	09/21/22 10:10
9	10M92866.D	CAL BNA@0.5PPM	09/21/22 09:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2371	0.1824	0.2168	0.2362	0.2630	0.2634	0.2718	0.2738	-----	0.243	11.49	0.999	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4230	0.2734	0.3620	0.4135	0.4646	0.4565	0.4685	0.4583	-----	0.415	11.89	0.999	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5205	0.2677	0.4240	0.5056	0.5837	0.5713	0.5824	0.5722	-----	0.503	12.14	0.999	0.999	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3495	0.1993	0.2945	0.3303	0.3794	0.3709	0.3740	0.3637	-----	0.333	12.25	0.999	1.00	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4231	0.2551	0.3347	0.4045	0.4785	0.4777	0.4954	0.4770	-----	0.418	12.76	0.999	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2154	1.0171	1.1132	1.2030	1.2759	1.2717	1.2587	1.2730	-----	1.20	12.79	1.00	1.00	7.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1233	1.0160	1.1057	1.1675	1.1997	1.1358	1.1686	1.1158	-----	1.13	12.84	0.999	0.999	4.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7474	0.3715	0.6066	0.7297	0.8082	0.7675	0.7724	0.7394	-----	0.693	12.83	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1683	0.4445	0.8313	1.0564	1.2998	1.2797	1.2968	1.2501	-----	1.08	13.58	0.999	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1297	0.8245	0.9955	1.0647	1.1687	1.1865	1.2587	1.1690	-----	1.10	14.00	0.998	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0936	0.8704	1.0284	1.1240	1.2236	1.1560	1.1297	1.1936	-----	1.10	14.03	0.998	0.998	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0624	0.7604	0.9309	1.0369	1.1440	1.1427	1.1749	1.1588	-----	1.05	14.36	1.00	1.00	14	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1412	0.8078	0.9977	1.1007	1.2602	1.2465	1.2900	1.2875	-----	1.14	15.75	0.999	0.999	15	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0075	0.6969	0.8613	0.9684	1.1098	1.1050	1.1413	1.1295	-----	1.00	15.77	0.999	1.00	16	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9907	0.7636	0.9054	0.9642	1.0774	1.0689	1.1054	1.1100	-----	0.998	16.13	0.999	1.00	12	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 10.58
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M115655.D	CAL BNA@50PPM	09/21/22 12:07	2	9M115647.D	CAL BNA@2PPM	09/21/22 08:59
3	9M115648.D	CAL BNA@10PPM	09/21/22 09:22	4	9M115653.D	CAL BNA@20PPM	09/21/22 11:21
5	9M115652.D	CAL BNA@80PPM	09/21/22 10:58	6	9M115651.D	CAL BNA@120PPM	09/21/22 10:34
7	9M115650.D	CAL BNA@160PPM	09/21/22 10:11	8	9M115649.D	CAL BNA@196PPM	09/21/22 09:48
9	9M115654.D	CAL BNA@0.5PPM	09/21/22 11:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9372	0.6836	0.9626	0.9630	0.9265	0.9348	0.9104	0.9445	1.0295	0.921	2.69	0.999	0.999	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.7814	2.1627	1.4224	1.7339	1.8260	1.8634	1.8510	1.8333	-----	1.81	3.15	1.00	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4945	1.3206	1.3374	1.4455	1.4931	1.5339	1.4946	1.5422	-----	1.46	3.09	1.00	1.00	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2636	2.1226	2.0863	2.2250	2.2485	2.2801	2.2504	2.2846	-----	2.22	4.67	1.00	1.00	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.7402	1.5993	1.6575	1.7287	1.7222	1.7215	1.6660	1.6846	-----	1.69	5.49	1.00	1.00	2.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3291	3.1722	2.9334	3.1280	3.3190	3.3448	3.2575	3.2674	3.8868	3.29	5.58	1.00	1.00	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8447	0.7903	0.7900	0.8273	0.8211	0.8176	0.7969	0.7956	-----	0.810	5.62	1.00	1.00	2.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.3393	2.3990	2.2490	2.3024	2.2577	2.2658	2.1796	2.1614	2.7311	2.32	5.64	0.999	1.00	7.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.7211	2.6649	2.4545	2.6514	2.6909	2.6931	2.6062	2.6296	-----	2.64	5.55	1.00	1.00	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.2567	3.5059	3.0346	3.2120	3.2113	3.2205	3.1350	3.1289	-----	3.21	5.56	1.00	1.00	4.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.5531	2.7739	2.4734	2.5099	2.5390	2.5218	2.4580	2.4445	-----	2.53	5.68	1.00	1.00	4.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.5412	2.6805	2.3864	2.5404	2.4391	2.3919	2.2772	2.2058	-----	2.43	5.72	0.997	1.00	6.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.8395	2.8514	2.5994	2.7792	2.7623	2.7587	2.6582	2.6400	-----	2.74	5.82	0.999	1.00	3.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5114	1.6309	1.4791	1.4913	1.5570	1.5512	1.5394	1.5135	-----	1.53	5.88	1.00	1.00	3.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4211	1.5139	1.3731	1.4017	1.4654	1.4690	1.4581	1.4457	-----	1.44	6.00	1.00	1.00	3.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8300	0.8875	0.7850	0.7808	0.8692	0.8728	0.8831	0.8864	-----	0.849	5.98	0.999	1.00	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.6495	1.6975	1.6311	1.6267	1.6418	1.6302	1.6032	1.5611	-----	1.63	6.09	0.999	1.00	2.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2067	1.3133	1.2135	1.1887	1.2409	1.2401	1.2378	1.2184	1.2925	1.24	6.06	1.00	1.00	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.6083	1.5788	1.5696	1.6063	1.5963	1.5245	1.4566	1.3876	-----	1.54	6.19	0.996	1.00	5.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5456	0.5670	0.5263	0.5310	0.5596	0.5545	0.5510	0.5445	-----	0.547	6.27	1.00	1.00	2.5	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8733	0.8747	0.8537	0.8772	0.8532	0.8142	0.7840	0.7475	1.0580	0.860	6.19	0.996	1.00	10	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2545	1.2896	1.2054	1.2396	1.2326	1.1896	1.1360	1.0767	1.3595	1.22	6.19	0.996	1.00	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1537	0.1787	0.1464	0.1484	0.1590	0.1592	0.1626	0.1615	-----	0.159	6.31	1.00	1.00	6.3		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3202	0.3446	0.3136	0.3242	0.3314	0.3277	0.3289	0.3249	-----	0.327	6.33	1.00	1.00	2.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6132	0.6520	0.5833	0.6042	0.6246	0.6154	0.6218	0.6152	-----	0.616	6.51	1.00	1.00	3.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1847	0.1819	0.1670	0.1799	0.1973	0.1972	0.2003	0.2005	-----	0.189	6.57	0.999	1.00	6.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3289	0.3445	0.3121	0.3245	0.3350	0.3315	0.3329	0.3284	0.3542	0.332	6.60	1.00	1.00	3.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2081	-----	0.1129	0.1869	0.2425	0.2432	0.2588	0.2543	-----	0.215	6.66	0.999	0.999	24		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3739	0.3890	0.3617	0.3716	0.3849	0.3798	0.3789	0.3693	-----	0.376	6.67	1.00	1.00	2.3	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2876	0.3003	0.2740	0.2820	0.2975	0.2953	0.2977	0.2955	0.2924	0.291	6.76	1.00	1.00	3.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3062	0.3287	0.2975	0.3000	0.3162	0.3115	0.3137	0.3069	-----	0.310	6.82	1.00	1.00	3.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0333	1.1299	1.0075	1.0263	1.0512	1.0248	1.0076	0.9768	1.1954	1.05	6.89	0.999	1.00	6.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3726	0.3734	0.3538	0.3681	0.3868	0.3778	0.3741	0.3520	0.3869	0.372	6.92	0.998	0.999	3.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1602	0.1627	0.1542	0.1597	0.1645	0.1651	0.1660	0.1623	-----	0.162	6.97	1.00	1.00	2.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1044	0.0876	0.0950	0.1000	0.1087	0.1090	0.1116	0.1213	-----	0.105	7.19	0.996	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2745	0.2967	0.2666	0.2706	0.2855	0.2832	0.2846	0.2799	-----	0.280	7.29	1.00	1.00	3.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6871	0.7113	0.6530	0.6738	0.7027	0.6894	0.6844	0.6654	-----	0.683	7.42	0.999	1.00	2.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6586	0.7101	0.6252	0.6643	0.6720	0.6591	0.6549	0.6350	-----	0.660	7.50	0.999	1.00	3.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6772	0.7107	0.6377	0.6657	0.6850	0.6737	0.6735	0.6511	-----	0.672	7.50	0.999	1.00	3.3		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.7948	0.8260	0.7788	0.7878	0.8144	0.7920	0.7842	0.7658	-----	0.793	7.80	0.999	1.00	2.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5727	0.5217	0.5481	0.5724	0.6034	0.5916	0.5998	0.5829	-----	0.574	7.56	0.999	1.00	4.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.830
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	9M115655.D	CAL BNA@50PPM	09/21/22 12:07	2	9M115647.D	CAL BNA@2PPM	09/21/22 08:59
3	9M115648.D	CAL BNA@10PPM	09/21/22 09:22	4	9M115653.D	CAL BNA@20PPM	09/21/22 11:21
5	9M115652.D	CAL BNA@80PPM	09/21/22 10:58	6	9M115651.D	CAL BNA@120PPM	09/21/22 10:34
7	9M115650.D	CAL BNA@160PPM	09/21/22 10:11	8	9M115649.D	CAL BNA@196PPM	09/21/22 09:48
9	9M115654.D	CAL BNA@0.5PPM	09/21/22 11:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Qua	0.1692	0.0484	0.0914	0.1297	0.2018	0.2183	0.2326	0.2376	-----	0.166	7.55	0.996	0.999	42	0.05 a	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4283	0.4049	0.3687	0.3901	0.4198	0.4132	0.4281	0.4205	-----	0.409	7.65	1.00	1.00	5.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4239	0.4151	0.3854	0.4127	0.4472	0.4437	0.4523	0.4544	-----	0.429	7.68	1.00	1.00	5.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4210	1.4835	1.3414	1.4061	1.4769	1.4666	1.5037	1.4762	-----	1.45	7.71	1.00	1.00	3.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2440	1.3026	1.1859	1.2451	1.2725	1.2642	1.2610	1.2222	-----	1.25	7.82	1.00	1.00	2.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0023	1.0518	0.9800	1.0058	1.0110	0.9740	0.9570	0.9157	-----	0.987	8.10	0.999	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0023	1.0518	0.9800	1.0058	1.0110	0.9740	0.9570	0.9157	-----	0.987	8.10	0.999	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8419	0.7838	0.8011	0.8326	0.8767	0.8725	0.8710	0.8464	-----	0.841	7.88	0.999	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4009	0.4026	0.3805	0.4042	0.4176	0.4174	0.4191	0.4109	-----	0.407	7.90	1.00	1.00	3.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4936	0.5088	0.4632	0.4855	0.5068	0.4950	0.4907	0.4627	-----	0.488	8.09	0.998	0.999	3.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9177	2.0478	1.8150	1.9214	1.9941	1.9578	1.9540	1.8966	-----	1.94	8.18	1.00	1.00	3.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3693	1.4878	1.3025	1.3750	1.4108	1.3982	1.4214	1.3977	-----	1.40	8.05	1.00	1.00	3.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3166	0.2857	0.2845	0.3107	0.3235	0.3108	0.3086	0.2990	-----	0.305	8.10	0.999	1.00	4.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2850	1.3620	1.2266	1.2826	1.3118	1.3032	1.2874	1.2491	-----	1.29	8.33	0.999	1.00	3.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3611	0.3531	0.3177	0.3581	0.3764	0.3773	0.3841	0.3757	-----	0.363	8.26	1.00	1.00	5.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1226	-----	0.0700	0.0996	0.1598	0.1664	0.1811	0.1826	-----	0.140	8.35	0.996	0.998	31	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7673	1.8550	1.6804	1.7552	1.8285	1.8014	1.8049	1.7552	1.9501	1.80	8.49	1.00	1.00	4.2	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4160	0.3465	0.3542	0.3907	0.4369	0.4434	0.4545	0.4528	-----	0.412	8.46	1.00	1.00	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2430	0.2281	0.2151	0.2383	0.2609	0.2611	0.2691	0.2681	-----	0.248	8.39	0.999	1.00	8.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3341	0.2830	0.2942	0.3225	0.3492	0.3477	0.3618	0.3575	-----	0.331	8.60	1.00	1.00	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4536	1.5055	1.3552	1.4410	1.4914	1.4660	1.4562	1.4203	-----	1.45	8.82	0.999	1.00	3.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6813	0.7267	0.6426	0.6693	0.7133	0.7037	0.7164	0.7063	-----	0.695	8.80	1.00	1.00	4.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3486	1.4011	1.3003	1.3396	1.3912	1.3916	1.3969	1.3713	-----	1.37	8.67	1.00	1.00	2.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3903	0.3627	0.3523	0.3827	0.4175	0.4107	0.4168	0.4176	-----	0.394	8.82	1.00	1.00	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.3828	0.3561	0.3510	0.3690	0.4017	0.4010	0.4094	0.4066	-----	0.385	9.45	1.00	1.00	6.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0972	-----	0.0638	0.0862	0.1133	0.1164	0.1209	0.1209	-----	0.103	8.85	0.999	0.999	21	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6175	0.6605	0.5836	0.6138	0.6512	0.6356	0.6413	0.6288	-----	0.629	8.92	1.00	1.00	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0894	0.0852	0.0798	0.0853	0.0956	0.0960	0.0993	0.1008	-----	0.0915	9.05	0.999	1.00	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6340	0.6523	0.5942	0.6380	0.6645	0.7209	0.7201	0.7009	-----	0.666	8.96	0.998	0.999	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1895	0.1888	0.1722	0.1882	0.2029	0.2024	0.2074	0.2056	-----	0.195	9.29	1.00	1.00	6.2	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2013	0.2140	0.1915	0.1988	0.2114	0.2131	0.2163	0.2149	-----	0.208	9.36	1.00	1.00	4.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.3269	0.3133	0.3009	0.3196	0.3405	0.3267	0.3268	0.3168	-----	0.321	9.62	0.999	1.00	3.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1098	-----	0.0859	0.0984	0.1244	0.1281	0.1344	0.1359	-----	0.117	9.56	0.998	1.00	16	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0243	1.1001	0.9819	1.0277	1.0689	1.0532	1.0516	1.0350	-----	1.04	9.80	1.00	1.00	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0481	1.1019	0.9801	1.0488	1.0974	1.0725	1.0662	1.0504	-----	1.06	9.86	1.00	1.00	3.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9917	1.0064	0.9224	0.9905	1.0337	1.0189	1.0272	1.0035	-----	0.999	10.02	1.00	1.00	3.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1462	1.1626	1.0592	1.1363	1.2043	1.1895	1.2021	1.1678	1.2218	1.17	10.40	1.00	1.00	4.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1272	1.1564	1.0126	1.0963	1.1965	1.1698	1.1903	1.1718	-----	1.14	11.13	1.00	1.00	5.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.3073	1.3727	1.2123	1.2651	1.3681	1.3421	1.3617	1.3494	-----	1.32	11.40	1.00	1.00	4.3	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Avg	0.6922	0.6434	0.6007	0.6480	0.7306	0.7194	0.7383	0.7253	-----	0.687	11.29	0.999	0.999	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7186	0.7612	0.6663	0.7032	0.7558	0.7655	0.8027	0.8138	-----	0.748	11.58	0.999	1.00	6.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.830

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101501 0110

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_9

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	9M115655.D	CAL BNA@50PPM	09/21/22 12:07	2	9M115647.D	CAL BNA@2PPM	09/21/22 08:59
3	9M115648.D	CAL BNA@10PPM	09/21/22 09:22	4	9M115653.D	CAL BNA@20PPM	09/21/22 11:21
5	9M115652.D	CAL BNA@80PPM	09/21/22 10:58	6	9M115651.D	CAL BNA@120PPM	09/21/22 10:34
7	9M115650.D	CAL BNA@160PPM	09/21/22 10:11	8	9M115649.D	CAL BNA@196PPM	09/21/22 09:48
9	9M115654.D	CAL BNA@0.5PPM	09/21/22 11:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2416	0.2363	0.2202	0.2325	0.2584	0.2580	0.2710	0.2734	-----	0.249	11.51	0.999	1.00	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4385	0.4290	0.3884	0.4160	0.4571	0.4571	0.4723	0.4651	-----	0.440	11.91	0.999	1.00	6.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5653	0.5757	0.5153	0.5476	0.5974	0.5954	0.6137	0.5994	-----	0.576	12.16	1.00	1.00	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3351	0.2629	0.2728	0.3079	0.3643	0.3637	0.3705	0.3661	-----	0.330	12.27	1.00	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4359	0.4810	0.4036	0.4293	0.4737	0.4720	0.4966	0.4842	-----	0.460	12.79	0.999	0.999	7.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2136	1.3186	1.1482	1.2016	1.2972	1.2592	1.3088	1.2732	-----	1.25	12.82	0.999	0.999	4.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1319	1.2132	1.0712	1.1147	1.1614	1.1463	1.1485	1.1395	-----	1.14	12.86	1.00	1.00	3.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.8023	0.8926	0.7392	0.7710	0.8362	0.8113	0.8210	0.8111	-----	0.811	12.86	1.00	1.00	5.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.3280	1.3358	1.2255	1.2830	1.3991	1.3904	1.3966	1.3566	-----	1.34	13.60	0.999	1.00	4.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1459	1.1477	1.0880	1.1400	1.2403	1.1954	1.2542	1.2853	-----	1.19	14.04	0.999	1.00	5.7	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1221	1.1270	1.0203	1.0584	1.1582	1.1961	1.1560	1.0944	-----	1.12	14.07	0.997	0.999	5.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0910	1.1228	0.9975	1.0545	1.1675	1.1733	1.1801	1.1716	-----	1.12	14.40	1.00	1.00	6.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1432	1.1582	1.0408	1.0824	1.2207	1.2465	1.2599	1.2411	-----	1.17	15.81	1.00	1.00	7.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	0.9855	0.9753	0.9103	0.9301	1.0541	1.0790	1.0866	1.0638	-----	1.01	15.83	0.999	0.999	6.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9780	1.0527	0.9185	0.9415	1.0500	1.0622	1.0737	1.0573	-----	1.02	16.20	1.00	1.00	6.0	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.830
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101501 0111

Form 6
Initial Calibration

Method: EPA 8270E

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M124024.D	CAL BNA@50PPM	09/21/22 12:13	2	7M124017.D	CAL BNA@2PPM	09/21/22 09:22
3	7M124016.D	CAL BNA@10PPM	09/21/22 08:57	4	7M124022.D	CAL BNA@20PPM	09/21/22 11:25
5	7M124021.D	CAL BNA@80PPM	09/21/22 11:01	6	7M124020.D	CAL BNA@120PPM	09/21/22 10:37
7	7M124019.D	CAL BNA@160PPM	09/21/22 10:10	8	7M124018.D	CAL BNA@196PPM	09/21/22 09:46
9	7M124023.D	CAL BNA@0.5PPM	09/21/22 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9160	0.9436	0.9144	0.9237	0.9198	0.9302	0.9415	0.9388	1.0932	0.947	2.60	1.00	1.00	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.6983	1.3545	1.3955	1.6436	1.7816	1.8643	1.9010	1.7989	-----	1.68	3.06	0.998	0.998	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4260	1.3194	1.3419	1.4589	1.4894	1.5054	1.5472	1.4953	-----	1.45	3.00	0.999	0.999	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.1947	2.1422	2.0158	2.2543	2.2820	2.3298	2.3400	2.1879	-----	2.22	4.60	0.998	0.998	4.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.7062	1.4442	1.6915	1.7905	1.7436	1.7494	1.7455	1.6127	-----	1.69	5.41	0.998	0.999	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.2688	3.1100	3.0428	3.4932	3.3264	3.3501	3.3660	3.0183	3.1907	3.24	5.50	0.995	0.997	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.7898	0.8568	0.7905	0.8403	0.7900	0.7939	0.7818	0.7096	-----	0.794	5.54	0.994	0.998	5.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.2524	2.4071	2.3070	2.4590	2.1814	2.1389	2.0660	1.9128	2.7047	2.27	5.56	0.995	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.6433	2.5037	2.4675	2.7906	2.6766	2.6958	2.6534	2.4113	-----	2.61	5.46	0.994	0.998	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.1715	3.3674	3.0938	3.4080	3.1776	3.1496	3.0708	2.7807	-----	3.15	5.47	0.993	0.998	6.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.3937	2.4215	2.3094	2.5871	2.4281	2.4337	2.4041	2.1576	-----	2.39	5.60	0.997	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.6769	1.9438	1.7438	1.8439	1.6303	1.5852	1.5192	1.3740	-----	1.66	5.65	0.991	0.999	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.6222	2.9031	2.6535	2.9474	2.6325	2.5914	2.5458	2.2488	-----	2.64	5.73	0.990	0.997	8.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5112	1.7340	1.4926	1.5126	1.4717	1.4546	1.4193	1.3660	-----	1.50	5.79	0.998	1.00	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4565	1.6650	1.4263	1.4443	1.4173	1.3770	1.3503	1.2994	-----	1.43	5.91	0.998	1.00	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9064	0.8912	0.8389	0.8823	0.9069	0.9062	0.8915	0.8827	-----	0.888	5.89	1.00	1.00	2.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.0518	1.1758	1.1083	1.0384	1.0303	1.0023	0.9806	0.9735	-----	1.05	6.00	0.999	1.00	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2430	1.1520	1.1909	1.2030	1.2173	1.1964	1.1817	1.1683	1.1475	1.19	5.97	1.00	1.00	2.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.6226	1.7555	1.6791	1.6887	1.5474	1.4758	1.4031	1.3598	-----	1.57	6.10	0.996	1.00	9.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5440	0.5799	0.5403	0.5407	0.5385	0.5362	0.5353	0.5314	-----	0.543	6.19	1.00	1.00	2.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8379	0.9523	0.8676	0.8674	0.7830	0.7520	0.7370	0.7253	0.8775	0.822	6.10	0.999	1.00	9.4	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2294	1.2238	1.2330	1.2498	1.1845	1.1066	1.0465	0.9938	1.0412	1.15	6.09	0.994	1.00	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1597	0.1310	0.1447	0.1534	0.1697	0.1683	0.1669	0.1654	-----	0.157	6.22	1.00	1.00	8.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3379	0.3508	0.3363	0.3348	0.3479	0.3333	0.3250	0.3248	-----	0.336	6.24	0.999	1.00	2.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6505	0.6860	0.6363	0.6500	0.6531	0.6493	0.6318	0.6383	-----	0.649	6.42	1.00	1.00	2.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1857	0.1336	0.1538	0.1749	0.1978	0.1966	0.1957	0.1892	-----	0.178	6.48	0.999	0.999	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3584	0.3534	0.3505	0.3576	0.3550	0.3481	0.3386	0.3362	0.3209	0.347	6.51	0.999	1.00	3.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2542	-----	0.1183	0.2026	0.2840	0.2921	0.3006	0.2980	-----	0.250	6.57	1.00	1.00	27		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3869	0.4352	0.3951	0.3906	0.3820	0.3710	0.3605	0.3513	-----	0.384	6.58	0.999	1.00	6.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.3018	0.2755	0.2835	0.3054	0.3098	0.3023	0.2990	0.2905	0.2554	0.292	6.66	0.999	1.00	6.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3261	0.3486	0.3270	0.3359	0.3357	0.3253	0.3196	0.3073	-----	0.328	6.74	0.998	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0611	1.1878	1.0704	1.0819	1.0437	1.0009	0.9701	0.9348	1.2808	1.07	6.79	0.998	1.00	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3935	0.3875	0.3708	0.3898	0.3938	0.3753	0.3626	0.3490	0.3721	0.377	6.83	0.998	1.00	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1872	0.2004	0.1782	0.1868	0.1921	0.1870	0.1854	0.1808	-----	0.187	6.88	0.999	1.00	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1164	0.0716	0.0964	0.1107	0.1184	0.1188	0.1283	0.1278	-----	0.111	7.10	0.998	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3054	0.2695	0.2862	0.2985	0.3126	0.3088	0.3045	0.3039	-----	0.299	7.19	1.00	1.00	4.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6940	0.7467	0.6856	0.7051	0.7000	0.6710	0.6483	0.6228	-----	0.684	7.33	0.997	1.00	5.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6685	0.7369	0.6661	0.6850	0.6660	0.6460	0.6239	0.5994	-----	0.662	7.41	0.998	1.00	6.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6823	0.7417	0.6758	0.6952	0.6828	0.6584	0.6361	0.6109	-----	0.673	7.33	0.997	1.00	5.8		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8401	0.9173	0.8298	0.8571	0.8360	0.8049	0.7747	0.7566	-----	0.827	7.70	0.998	1.00	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5617	0.5883	0.5748	0.5848	0.5801	0.5497	0.5505	0.5202	-----	0.564	7.46	0.998	0.999	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.298
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101501 0112

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M124024.D	CAL BNA@50PPM	09/21/22 12:13	2	7M124017.D	CAL BNA@2PPM	09/21/22 09:22
3	7M124016.D	CAL BNA@10PPM	09/21/22 08:57	4	7M124022.D	CAL BNA@20PPM	09/21/22 11:25
5	7M124021.D	CAL BNA@80PPM	09/21/22 11:01	6	7M124020.D	CAL BNA@120PPM	09/21/22 10:37
7	7M124019.D	CAL BNA@160PPM	09/21/22 10:10	8	7M124018.D	CAL BNA@196PPM	09/21/22 09:46
9	7M124023.D	CAL BNA@0.5PPM	09/21/22 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.2948	0.2704	0.2770	0.2864	0.3272	0.3222	0.3332	0.3220	-----	0.304	7.45	0.999	0.999	8.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4230	0.3567	0.3619	0.4135	0.4414	0.4334	0.4388	0.4219	-----	0.411	7.55	0.999	1.00	8.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4229	0.3528	0.3893	0.4443	0.4707	0.4552	0.4674	0.4542	-----	0.432	7.58	0.999	0.999	9.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4274	1.5763	1.4357	1.4488	1.4890	1.4254	1.4536	1.4246	-----	1.46	7.62	1.00	1.00	3.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1986	1.3827	1.2144	1.2226	1.2152	1.1517	1.1558	1.1076	-----	1.21	7.72	0.998	1.00	6.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9343	1.0833	0.9914	1.0043	0.9215	0.8542	0.8295	0.7656	-----	0.923	8.01	0.993	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9343	1.0833	0.9914	1.0043	0.9215	0.8542	0.8295	0.7656	-----	0.923	8.01	0.994	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8242	0.8454	0.8303	0.8536	0.8437	0.8125	0.8133	0.7785	-----	0.825	7.79	0.999	1.00	2.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3447	0.2663	0.3143	0.3473	0.3556	0.3403	0.3482	0.3350	-----	0.332	7.80	0.999	0.999	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4857	0.5257	0.4730	0.4911	0.4810	0.4596	0.4499	0.4188	-----	0.473	7.99	0.995	1.00	6.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9034	2.0711	1.8952	1.9488	1.9166	1.8141	1.8034	1.7160	-----	1.88	8.09	0.998	1.00	5.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3998	1.5276	1.3743	1.4388	1.4432	1.3841	1.4065	1.3488	-----	1.42	7.95	0.999	1.00	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3148	0.2655	0.2963	0.3300	0.3156	0.2952	0.2844	0.2671	-----	0.296	8.00	0.994	1.00	7.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1998	1.3806	1.2199	1.2439	1.2171	1.1674	1.1572	1.0963	-----	1.21	8.24	0.998	1.00	6.8	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3481	0.2648	0.3173	0.3542	0.3644	0.3497	0.3554	0.3459	-----	0.338	8.15	0.999	1.00	9.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1414	-----	0.0881	0.1140	0.1766	0.1770	0.1893	0.1856	-----	0.153	8.25	0.998	0.998	26	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8101	2.1064	1.8056	1.8565	1.8470	1.7459	1.7526	1.6591	2.0407	1.85	8.39	0.998	1.00	7.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4323	0.2968	0.3463	0.4147	0.4613	0.4537	0.4614	0.4541	-----	0.415	8.36	1.00	1.00	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2275	0.1425	0.2022	0.2193	0.2463	0.2417	0.2482	0.2428	-----	0.221	8.27	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3668	0.3032	0.3224	0.3731	0.4013	0.3943	0.4048	0.3900	-----	0.370	8.50	0.999	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3973	1.5690	1.4286	1.4769	1.4292	1.3305	1.3224	1.2575	-----	1.40	8.72	0.997	1.00	7.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7103	0.7941	0.6920	0.7346	0.7371	0.7102	0.7146	0.6793	-----	0.722	8.71	0.998	0.999	4.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4150	1.4383	1.3340	1.4097	1.4431	1.3970	1.4070	1.3747	-----	1.40	8.59	1.00	1.00	2.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3685	0.2979	0.3313	0.3709	0.3819	0.3731	0.3840	0.3797	-----	0.361	8.72	1.00	1.00	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4102	0.3029	0.3490	0.3952	0.4347	0.4176	0.4273	0.4200	-----	0.395	9.36	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0995	-----	0.0668	0.0862	0.1142	0.1161	0.1204	0.1199	-----	0.103	8.74	0.999	0.999	20	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5799	0.6176	0.5876	0.5997	0.5932	0.5647	0.5570	0.5445	-----	0.581	8.82	0.999	1.00	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0957	0.0606	0.0740	0.0881	0.1020	0.1022	0.1037	0.1034	-----	0.0913	8.95	1.00	1.00	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6401	0.6547	0.6248	0.6033	0.6422	0.6198	0.6007	0.5953	-----	0.623	8.86	0.999	1.00	3.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1979	0.1940	0.1851	0.1980	0.2093	0.2071	0.2066	0.2026	-----	0.200	9.20	1.00	1.00	4.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2153	0.2216	0.2045	0.2151	0.2261	0.2243	0.2255	0.2219	-----	0.219	9.26	0.999	0.999	3.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.2171	0.2102	0.2226	0.2209	0.2182	0.2102	0.2053	0.2040	-----	0.214	9.54	0.999	1.00	3.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1429	-----	0.1067	0.1306	0.1596	0.1603	0.1634	0.1606	-----	0.146	9.46	0.999	0.999	14	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	0.9621	1.1203	0.9960	1.0030	0.9771	0.9510	0.9208	0.8879	-----	0.977	9.70	0.999	1.00	7.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	0.9827	1.0345	0.9807	1.0150	0.9986	0.9523	0.9350	0.9044	-----	0.975	9.76	0.998	1.00	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9462	0.9873	0.9443	0.9727	0.9726	0.9263	0.9164	0.8992	-----	0.946	9.93	0.999	1.00	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1248	0.9565	1.0319	1.1000	1.1376	1.1188	1.0917	1.0737	0.7975	1.05	10.32	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1139	1.0641	1.0531	1.1280	1.1423	1.1042	1.0812	1.0506	-----	1.09	11.04	0.999	1.00	3.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2891	1.3190	1.2496	1.3031	1.3497	1.2937	1.2811	1.2588	-----	1.29	11.30	0.999	1.00	2.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.6105	0.3370	0.4586	0.5584	0.6848	0.6830	0.6642	0.6603	-----	0.582	11.19	0.999	0.999	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7528	0.7093	0.6828	0.7356	0.8019	0.8018	0.8072	0.8246	-----	0.765	11.49	1.00	1.00	6.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 7.298

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101501 0113

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M124024.D	CAL BNA@50PPM	09/21/22 12:13	2	7M124017.D	CAL BNA@2PPM	09/21/22 09:22
3	7M124016.D	CAL BNA@10PPM	09/21/22 08:57	4	7M124022.D	CAL BNA@20PPM	09/21/22 11:25
5	7M124021.D	CAL BNA@80PPM	09/21/22 11:01	6	7M124020.D	CAL BNA@120PPM	09/21/22 10:37
7	7M124019.D	CAL BNA@160PPM	09/21/22 10:10	8	7M124018.D	CAL BNA@196PPM	09/21/22 09:46
9	7M124023.D	CAL BNA@0.5PPM	09/21/22 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2462	0.2531	0.2353	0.2466	0.2674	0.2709	0.2761	0.2760	-----	0.259	11.43	0.999	1.00	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4534	0.3996	0.3987	0.4463	0.4920	0.4833	0.4787	0.4798	-----	0.454	11.83	0.999	0.999	8.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5534	0.4144	0.4676	0.5365	0.5863	0.5881	0.5860	0.5833	-----	0.539	12.09	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3582	0.2520	0.2961	0.3400	0.3827	0.3788	0.3801	0.3707	-----	0.345	12.19	0.999	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4687	0.3327	0.3605	0.4492	0.5041	0.5058	0.4974	0.4833	-----	0.450	12.71	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1935	1.2550	1.1330	1.2103	1.2603	1.2423	1.2366	1.2202	-----	1.22	12.73	1.00	1.00	3.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1034	1.1734	1.0942	1.1333	1.1466	1.0973	1.0903	1.0556	-----	1.11	12.78	0.999	1.00	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7402	0.5916	0.6754	0.7314	0.7653	0.7408	0.7263	0.7004	-----	0.709	12.79	0.998	1.00	7.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.2452	0.8428	1.0363	1.1761	1.2884	1.2825	1.2777	1.2398	-----	1.17	13.55	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1100	1.0829	1.0388	1.1282	1.1744	1.1651	1.1708	1.1465	-----	1.13	13.95	1.00	1.00	4.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1358	1.1192	1.0548	1.1262	1.1013	1.1033	1.0603	1.0534	-----	1.09	13.98	0.999	1.00	3.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0861	1.0039	0.9748	1.0726	1.1280	1.1260	1.1207	1.1079	-----	1.08	14.31	1.00	1.00	5.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1559	1.0335	1.0264	1.1179	1.2162	1.2218	1.2328	1.2265	-----	1.15	15.71	0.999	1.00	7.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0233	0.9630	0.9204	0.9912	1.0595	1.0543	1.0533	1.0481	-----	1.01	15.74	1.00	1.00	5.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0068	0.9746	0.9167	0.9749	1.0558	1.0610	1.0728	1.0613	-----	1.02	16.10	1.00	1.00	5.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 7.298
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116481.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/25/2022 8:24:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.63	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.66	51.29	50	**		0.921	0.945	2.59	
Pyridine	1	0		3.14	44.95	50	**		1.809	1.626	10.11	
N-Nitrosodimethylamine	1	0		3.08	53.31	50	**		1.458	1.554	6.61	
2-Fluorophenol	1	0	S	4.66	48.22	50	**		2.220	2.141	3.56	
Benzaldehyde	1	0		5.48	51.54	50	20	0.01	1.690	1.742	3.08	
Aniline	1	0		5.57	52.46	50	**		3.293	3.455	4.92	
Pentachloroethane	1	0		5.61	49.99	50	**	0.05	0.810	0.810	0.02	
bis(2-Chloroethyl)ether	1	0		5.63	51.62	50	20	0.7	2.321	2.396	3.24	
Phenol-d5	1	0	S	5.54	51.11	50	**		2.639	2.698	2.23	
Phenol	1	0		5.55	50.33	50	20	0.8	3.213	3.235	0.67	
2-Chlorophenol	1	0		5.67	48.35	50	20	0.8	2.534	2.451	3.29	
N-Decane	1	0		5.70	48.54	50	**	0.05	2.433	2.362	2.91	
1,3-Dichlorobenzene	1	0		5.80	47.58	50	**		2.736	2.604	4.83	
1,4-Dichlorobenzene-d4	1	0	I	5.85	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.86	50.00	50	20		1.534	1.534	0.01	
1,2-Dichlorobenzene	1	0		5.99	50.53	50	**		1.444	1.459	1.05	
Benzyl alcohol	1	0		5.96	54.47	50	**		0.849	0.925	8.93	
bis(2-chloroisopropyl)ether	1	0		6.07	54.65	50	20	0.01	1.630	1.782	9.30	
2-Methylphenol	1	0		6.06	52.91	50	20	0.7	1.239	1.311	5.83	
Acetophenone	1	0		6.18	60.20	50	20	0.01	1.541	1.855	20.40	
Hexachloroethane	1	0		6.26	54.98	50	20	0.3	0.547	0.602	9.96	
N-Nitroso-di-n-propylamine	1	0		6.17	60.47	50	20	0.5	0.860	1.040	20.95	C1
3&4-Methylphenol	1	0		6.18	57.08	50	20		1.220	1.393	14.16	
Naphthalene-d8	1	0	I	6.86	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.30	25.15	25	**		0.159	0.160	0.60	
Nitrobenzene	1	0		6.32	57.14	50	20	0.2	0.327	0.374	14.28	
Isophorone	1	0		6.50	56.56	50	20	0.4	0.616	0.697	13.12	
2-Nitrophenol	1	0		6.56	50.15	50	20	0.1	0.189	0.189	0.29	
2,4-Dimethylphenol	1	0		6.59	54.41	50	20	0.2	0.332	0.362	8.82	
Benzoic Acid	1	0		6.66	44.62	50	**		0.215	0.204	10.77	
bis(2-Chloroethoxy)methane	1	0		6.66	53.84	50	20	0.3	0.376	0.405	7.69	
2,4-Dichlorophenol	1	0		6.75	47.91	50	20	0.2	0.291	0.279	4.18	
1,2,4-Trichlorobenzene	1	0		6.81	46.51	50	**		0.310	0.288	6.98	
Naphthalene	1	0		6.87	49.52	50	20	0.7	1.050	1.040	0.97	
4-Chloroaniline	1	0		6.91	54.71	50	20	0.01	0.372	0.407	9.41	
Hexachlorobutadiene	1	0		6.96	48.67	50	20	0.01	0.162	0.158	2.65	
Caprolactam	1	0		7.19	52.00	50	20	0.01	0.105	0.109	4.01	
4-Chloro-3-methylphenol	1	0		7.28	53.15	50	20	0.2	0.280	0.298	6.30	
2-Methylnaphthalene	1	0		7.41	49.52	50	**	0.4	0.683	0.677	0.96	
1-Methylnaphthalene	1	0		7.49	50.44	50	**	0.4	0.660	0.666	0.88	
Methylnaphthalenes	1	0		7.41	99.54	50	**			1.338	99.08	
1,1'-Biphenyl	1	0		7.79	49.79	50	20	0.01	0.793	0.790	0.41	
Acenaphthene-d10	1	0	I	8.29	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.55	46.13	50	20	0.01	0.574	0.530	7.74	
Hexachlorocyclopentadiene	1	0		7.53	9.60	50	20	0.05	0.166	0.033	80.81	C1
2,4,6-Trichlorophenol	1	0		7.63	43.87	50	20	0.2	0.409	0.359	12.27	
2,4,5-Trichlorophenol	1	0		7.67	45.21	50	20	0.2	0.429	0.388	9.58	
2-Fluorobiphenyl	1	0	S	7.70	24.08	25	**		1.447	1.394	3.67	
2-Chloronaphthalene	1	0		7.81	49.25	50	20	0.8	1.250	1.231	1.50	
1,4-Dimethylnaphthalene	1	0		8.09	51.92	50	**		0.987	1.025	3.84	
Dimethylnaphthalenes	1	0		8.09	51.92	50	20			1.025	3.84	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116481.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/25/2022 8:24:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.87	49.41	50	**		0.841	0.831	1.18	
2-Nitroaniline	1	0		7.89	49.20	50	20	0.01	0.407	0.400	1.59	
Coumarin	1	0		8.08	51.81		**		0.488			
Acenaphthylene	1	0		8.17	49.77	50	20	0.9	1.938	1.929	0.46	
Dimethylphthalate	1	0		8.03	49.89	50	20	0.01	1.395	1.392	0.21	
2,6-Dinitrotoluene	1	0		8.10	53.59	50	20	0.2	0.305	0.327	7.18	
Acenaphthene	1	0		8.32	50.80	50	20	0.9	1.289	1.309	1.61	
3-Nitroaniline	1	0		8.25	53.28	50	20	0.01	0.363	0.387	6.55	
2,4-Dinitrophenol	1	0		8.36	35.27	50	20	0.2	0.140	0.099	29.47	C1
Dibenzofuran	1	0		8.48	49.15	50	20	0.8	1.800	1.769	1.71	
2,4-Dinitrotoluene	1	0		8.46	51.42	50	20	0.2	0.412	0.424	2.83	
4-Nitrophenol	1	0		8.39	43.42	50	20	0.01	0.248	0.215	13.15	
2,3,4,6-Tetrachlorophenol	1	0		8.59	47.82	50	20	0.01	0.331	0.317	4.36	
Fluorene	1	0		8.80	50.14	50	20	0.9	1.449	1.453	0.29	
4-Chlorophenyl-phenylether	1	0		8.79	46.84	50	20	0.4	0.695	0.651	6.32	
Diethylphthalate	1	0		8.66	50.87	50	20	0.01	1.368	1.391	1.74	
4-Nitroaniline	1	0		8.82	51.36	50	20	0.01	0.394	0.405	2.71	
Atrazine	1	0		9.43	48.11	50	20	0.01	0.385	0.370	3.78	
Phenanthrene-d10	1	0	I	9.76	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.86	40.92	50	20	0.01	0.103	0.087	18.16	
n-Nitrosodiphenylamine	1	0		8.90	50.25	50	20	0.01	0.629	0.632	0.50	
2,4,6-Tribromophenol	1	0	S	9.04	54.72	50	**		0.091	0.100	9.44	
1,2-Diphenylhydrazine	1	0		8.95	65.61	50	**		0.666	0.873	31.22	
4-Bromophenyl-phenylether	1	0		9.27	52.25	50	20	0.1	0.195	0.203	4.50	
Hexachlorobenzene	1	0		9.35	54.31	50	20	0.1	0.208	0.226	8.63	
N-Octadecane	1	0		9.60	54.84	50	**	0.05	0.321	0.353	9.67	
Pentachlorophenol	1	0		9.56	39.86	50	20	0.05	0.117	0.093	20.27	
Phenanthrene	1	0		9.79	49.84	50	20	0.7	1.043	1.039	0.33	
Anthracene	1	0		9.85	50.21	50	20	0.7	1.058	1.063	0.42	
Carbazole	1	0		10.02	51.54	50	20	0.01	0.999	1.030	3.08	
Di-n-butylphthalate	1	0		10.38	52.65	50	20	0.01	1.166	1.227	5.31	
Fluoranthene	1	0		11.13	49.50	50	20	0.6	1.140	1.129	0.99	
Chrysene-d12	1	0	I	12.83	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.39	45.42	50	20	0.6	1.322	1.201	9.16	
Benzidine	1	0		11.28	38.80	50	**		0.687	0.533	22.41	
Terphenyl-d14	1	0	S	11.57	22.96	25	**		0.748	0.687	8.14	
4,4'-DDE	1	0		11.50	46.19		**		0.249			
4,4'-DDD	1	0		11.90	49.43		**		0.440			
Butylbenzylphthalate	1	0		12.15	49.05	50	20	0.01	0.576	0.565	1.91	
4,4'-DDT	1	0		12.26	49.14		**		0.330			
3,3'-Dichlorobenzidine	1	0		12.78	51.90	50	20	0.01	0.460	0.477	3.80	
Benzo[a]anthracene	1	0		12.82	46.07	50	20	0.8	1.253	1.154	7.86	
Chrysene	1	0		12.86	46.42	50	20	0.7	1.141	1.059	7.16	
bis(2-Ethylhexyl)phthalate	1	0		12.84	50.61	50	20	0.01	0.811	0.820	1.21	
Perylene-d12	1	0	I	14.46	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.59	55.81	50	20	0.01	1.339	1.495	11.62	
Benzo[b]fluoranthene	1	0		14.04	50.95	50	20	0.7	1.187	1.210	1.91	
Benzo[k]fluoranthene	1	0		14.06	51.39	50	20	0.7	1.117	1.148	2.79	
Benzo[a]pyrene	1	0		14.40	48.47	50	20	0.7	1.120	1.086	3.05	
Indeno[1,2,3-cd]pyrene	1	0		15.82	43.91	50	20	0.5	1.174	1.031	12.17	
Dibenzo[a,h]anthracene	1	0		15.83	45.59	50	20	0.4	1.011	0.921	8.82	
Benzo[g,h,i]perylene	1	0		16.21	42.34	50	20	0.5	1.017	0.861	15.32	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116481.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/25/2022 8:24:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.672	0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.987	0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M93475.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/25/2022 8:28:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.71	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.74	49.75	50	**		0.990	0.985	0.49	
Pyridine	1	0		3.23	42.25	50	**		1.700	1.572	15.50	
N-Nitrosodimethylamine	1	0		3.14	61.20	50	**		1.433	1.754	22.41	
2-Fluorophenol	1	0	S	4.69	58.17	50	**		2.212	2.574	16.35	
Benzaldehyde	1	0		5.50	60.63	50	20	0.01	1.662	2.015	21.26	C1
Aniline	1	0		5.59	60.17	50	**		3.314	3.988	20.34	
Pentachloroethane	1	0		5.64	58.45	50	**	0.05	0.838	0.979	16.89	
bis(2-Chloroethyl)ether	1	0		5.65	60.06	50	20	0.7	2.390	2.871	20.12	
Phenol-d5	1	0	S	5.56	61.16	50	**		2.611	3.194	22.32	
Phenol	1	0		5.57	59.08	50	20	0.8	3.272	3.866	18.16	
2-Chlorophenol	1	0		5.70	60.23	50	20	0.8	2.535	3.053	20.45	
N-Decane	1	0		5.73	66.42	50	**	0.05	2.168	2.880	32.83	
1,3-Dichlorobenzene	1	0		5.82	59.17	50	**		2.831	3.350	18.33	
1,4-Dichlorobenzene-d4	1	0	I	5.87	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.88	51.85	50	20		1.518	1.574	3.70	
1,2-Dichlorobenzene	1	0		6.01	51.59	50	**		1.431	1.477	3.17	
Benzyl alcohol	1	0		5.98	53.57	50	**		0.825	0.883	7.14	
bis(2-chloroisopropyl)ether	1	0		6.09	60.17	50	20	0.01	1.374	1.654	20.34	
2-Methylphenol	1	0		6.07	53.91	50	20	0.7	1.145	1.235	7.81	
Acetophenone	1	0		6.20	56.94	50	20	0.01	1.485	1.691	13.89	
Hexachloroethane	1	0		6.28	52.84	50	20	0.3	0.539	0.570	5.68	
N-Nitroso-di-n-propylamine	1	0		6.19	61.14	50	20	0.5	0.766	0.936	22.27	C1
3&4-Methylphenol	1	0		6.19	55.64	50	20		1.131	1.259	11.29	
Naphthalene-d8	1	0	I	6.87	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.32	26.71	25	**		0.146	0.156	6.85	
Nitrobenzene	1	0		6.33	57.33	50	20	0.2	0.307	0.352	14.66	
Isophorone	1	0		6.51	56.63	50	20	0.4	0.573	0.649	13.26	
2-Nitrophenol	1	0		6.58	55.72	50	20	0.1	0.176	0.196	11.44	
2,4-Dimethylphenol	1	0		6.61	53.71	50	20	0.2	0.308	0.331	7.42	
Benzoic Acid	1	0		6.66	31.13	50	**		0.190	0.128	37.74	
bis(2-Chloroethoxy)methane	1	0		6.67	53.12	50	20	0.3	0.370	0.393	6.24	
2,4-Dichlorophenol	1	0		6.76	53.53	50	20	0.2	0.268	0.287	7.07	
1,2,4-Trichlorobenzene	1	0		6.82	52.75	50	**		0.311	0.329	5.49	
Naphthalene	1	0		6.89	52.26	50	20	0.7	1.019	1.065	4.52	
4-Chloroaniline	1	0		6.92	54.71	50	20	0.01	0.370	0.405	9.43	
Hexachlorobutadiene	1	0		6.97	57.88	50	20	0.01	0.167	0.193	15.75	
Caprolactam	1	0		7.20	50.18	50	20	0.01	0.095	0.101	0.36	
4-Chloro-3-methylphenol	1	0		7.28	57.04	50	20	0.2	0.257	0.294	14.08	
2-Methylnaphthalene	1	0		7.42	53.58	50	**	0.4	0.655	0.702	7.15	
1-Methylnaphthalene	1	0		7.50	53.22	50	**	0.4	0.635	0.676	6.43	
Methylnaphthalenes	1	0		7.42	106.90	50	**			1.376	113.80	
1,1'-Biphenyl	1	0		7.79	54.94	50	20	0.01	0.763	0.839	9.87	
Acenaphthene-d10	1	0	I	8.30	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.55	53.66	50	20	0.01	0.579	0.621	7.31	
Hexachlorocyclopentadiene	1	0		7.54	49.52	50	20	0.05	0.272	0.270	0.97	
2,4,6-Trichlorophenol	1	0		7.64	53.19	50	20	0.2	0.401	0.426	6.38	
2,4,5-Trichlorophenol	1	0		7.68	53.38	50	20	0.2	0.420	0.448	6.77	
2-Fluorobiphenyl	1	0	S	7.71	26.96	25	**		1.408	1.518	7.82	
2-Chloronaphthalene	1	0		7.82	51.67	50	20	0.8	1.245	1.286	3.35	
1,4-Dimethylnaphthalene	1	0		8.10	53.02	50	**		0.970	1.028	6.03	
Dimethylnaphthalenes	1	0		8.10	53.02	50	20			1.028	6.03	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M93475.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/25/2022 8:28:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.88	52.63	50	**		0.831	0.875	5.26	
2-Nitroaniline	1	0		7.89	61.68	50	20	0.01	0.351	0.433	23.36	C1
Coumarin	1	0		8.08	51.27		**		0.482			
Acenaphthylene	1	0		8.18	52.51	50	20	0.9	1.879	1.973	5.01	
Dimethylphthalate	1	0		8.04	54.51	50	20	0.01	1.344	1.466	9.02	
2,6-Dinitrotoluene	1	0		8.10	56.54	50	20	0.2	0.299	0.338	13.08	
Acenaphthene	1	0		8.33	52.74	50	20	0.9	1.232	1.300	5.47	
3-Nitroaniline	1	0		8.25	53.59	50	20	0.01	0.348	0.372	7.18	
2,4-Dinitrophenol	1	0		8.34	51.62	50	20	0.2	0.151	0.171	3.23	
Dibenzofuran	1	0		8.48	52.58	50	20	0.8	1.758	1.848	5.16	
2,4-Dinitrotoluene	1	0		8.46	53.04	50	20	0.2	0.402	0.458	6.07	
4-Nitrophenol	1	0		8.38	56.87	50	20	0.01	0.215	0.245	13.73	
2,3,4,6-Tetrachlorophenol	1	0		8.59	56.74	50	20	0.01	0.330	0.374	13.47	
Fluorene	1	0		8.80	53.17	50	20	0.9	1.413	1.502	6.33	
4-Chlorophenyl-phenylether	1	0		8.79	55.01	50	20	0.4	0.692	0.761	10.03	
Diethylphthalate	1	0		8.67	55.43	50	20	0.01	1.315	1.458	10.86	
4-Nitroaniline	1	0		8.81	53.15	50	20	0.01	0.375	0.399	6.30	
Atrazine	1	0		9.43	54.80	50	20	0.01	0.362	0.432	9.60	
Phenanthrene-d10	1	0	I	9.76	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.84	54.24	50	20	0.01	0.108	0.122	8.49	
n-Nitrosodiphenylamine	1	0		8.91	51.78	50	20	0.01	0.601	0.623	3.55	
2,4,6-Tribromophenol	1	0	S	9.04	58.06	50	**		0.089	0.110	16.12	
1,2-Diphenylhydrazine	1	0		8.95	53.44	50	**		0.621	0.663	6.87	
4-Bromophenyl-phenylether	1	0		9.28	54.50	50	20	0.1	0.200	0.218	9.00	
Hexachlorobenzene	1	0		9.35	56.25	50	20	0.1	0.219	0.247	12.51	
N-Octadecane	1	0		9.61	61.73	50	**	0.05	0.263	0.325	23.46	
Pentachlorophenol	1	0		9.55	50.92	50	20	0.05	0.128	0.134	1.84	
Phenanthrene	1	0		9.78	51.09	50	20	0.7	1.037	1.059	2.19	
Anthracene	1	0		9.84	52.04	50	20	0.7	1.042	1.084	4.07	
Carbazole	1	0		10.01	51.83	50	20	0.01	0.957	0.992	3.67	
Di-n-butylphthalate	1	0		10.38	49.87	50	20	0.01	1.020	1.172	0.26	
Fluoranthene	1	0		11.11	54.54	50	20	0.6	1.081	1.179	9.08	
Chrysene-d12	1	0	I	12.80	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.38	51.58	50	20	0.6	1.245	1.284	3.15	
Benzidine	1	0		11.26	39.45	50	**		0.568	0.485	21.10	
Terphenyl-d14	1	0	S	11.55	27.11	25	**		0.707	0.766	8.42	
4,4'-DDE	1	0		11.49	54.05		**		0.243			
4,4'-DDD	1	0		11.88	58.16		**		0.415			
Butylbenzylphthalate	1	0		12.14	48.84	50	20	0.01	0.503	0.550	2.32	
4,4'-DDT	1	0		12.24	60.51		**		0.333			
3,3'-Dichlorobenzidine	1	0		12.76	56.40	50	20	0.01	0.418	0.527	12.80	
Benzo[a]anthracene	1	0		12.79	52.19	50	20	0.8	1.204	1.256	4.38	
Chrysene	1	0		12.83	51.64	50	20	0.7	1.129	1.166	3.28	
bis(2-Ethylhexyl)phthalate	1	0		12.83	51.86	50	20	0.01	0.693	0.787	3.73	
Perylene-d12	1	0	I	14.42	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	48.49	50	20	0.01	1.078	1.231	3.03	
Benzo[b]fluoranthene	1	0		14.00	55.04	50	20	0.7	1.100	1.210	10.07	
Benzo[k]fluoranthene	1	0		14.03	51.49	50	20	0.7	1.102	1.135	2.98	
Benzo[a]pyrene	1	0		14.36	53.52	50	20	0.7	1.051	1.125	7.03	
Indeno[1,2,3-cd]pyrene	1	0		15.75	53.70	50	20	0.5	1.142	1.226	7.40	
Dibenzo[a,h]anthracene	1	0		15.76	54.70	50	20	0.4	1.003	1.097	9.40	
Benzo[g,h,i]perylene	1	0		16.13	52.99	50	20	0.5	0.998	1.058	5.98	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M93475.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/25/2022 8:28:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.644	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.970	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.

625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116525.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2022 2:42:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.63	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.68	52.95	50	**		0.921	0.976	5.90	
Pyridine	1	0		3.15	44.25	50	**		1.809	1.601	11.51	
N-Nitrosodimethylamine	1	0		3.08	54.61	50	**		1.458	1.592	9.22	
2-Fluorophenol	1	0	S	4.67	48.50	50	**		2.220	2.153	3.01	
Benzaldehyde	1	0		5.49	53.30	50	20	0.01	1.690	1.802	6.59	
Aniline	1	0		5.58	52.03	50	**		3.293	3.427	4.05	
Pentachloroethane	1	0		5.62	51.21	50	**	0.05	0.810	0.830	2.42	
bis(2-Chloroethyl)ether	1	0		5.63	51.81	50	20	0.7	2.321	2.405	3.62	
Phenol-d5	1	0	S	5.55	51.35	50	**		2.639	2.711	2.71	
Phenol	1	0		5.56	54.59	50	20	0.8	3.213	3.508	9.18	
2-Chlorophenol	1	0		5.68	48.88	50	20	0.8	2.534	2.478	2.23	
N-Decane	1	0		5.71	49.91	50	**	0.05	2.433	2.428	0.18	
1,3-Dichlorobenzene	1	0		5.80	47.09	50	**		2.736	2.577	5.81	
1,4-Dichlorobenzene-d4	1	0	I	5.85	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.87	50.73	50	20		1.534	1.557	1.46	
1,2-Dichlorobenzene	1	0		5.99	52.09	50	**		1.444	1.504	4.19	
Benzyl alcohol	1	0		5.97	56.54	50	**		0.849	0.960	13.08	
bis(2-chloroisopropyl)ether	1	0		6.08	57.89	50	20	0.01	1.630	1.887	15.77	
2-Methylphenol	1	0		6.06	55.23	50	20	0.7	1.239	1.369	10.46	
Acetophenone	1	0		6.19	63.11	50	20	0.01	1.541	1.945	26.21	C1
Hexachloroethane	1	0		6.26	56.70	50	20	0.3	0.547	0.621	13.40	
N-Nitroso-di-n-propylamine	1	0		6.18	64.28	50	20	0.5	0.860	1.105	28.57	C1
3&4-Methylphenol	1	0		6.19	58.98	50	20		1.220	1.440	17.96	
Naphthalene-d8	1	0	I	6.86	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.30	23.49	25	**		0.159	0.149	6.04	
Nitrobenzene	1	0		6.32	57.11	50	20	0.2	0.327	0.374	14.23	
Isophorone	1	0		6.50	54.86	50	20	0.4	0.616	0.676	9.73	
2-Nitrophenol	1	0		6.57	46.96	50	20	0.1	0.189	0.177	6.09	
2,4-Dimethylphenol	1	0		6.60	51.89	50	20	0.2	0.332	0.345	3.78	
Benzoic Acid	1	0		6.67	41.34	50	**		0.215	0.188	17.32	
bis(2-Chloroethoxy)methane	1	0		6.66	51.43	50	20	0.3	0.376	0.387	2.85	
2,4-Dichlorophenol	1	0		6.76	44.16	50	20	0.2	0.291	0.257	11.68	
1,2,4-Trichlorobenzene	1	0		6.82	44.84	50	**		0.310	0.278	10.33	
Naphthalene	1	0		6.88	49.14	50	20	0.7	1.050	1.032	1.71	
4-Chloroaniline	1	0		6.92	53.67	50	20	0.01	0.372	0.399	7.35	
Hexachlorobutadiene	1	0		6.96	49.46	50	20	0.01	0.162	0.160	1.08	
Caprolactam	1	0		7.20	49.73	50	20	0.01	0.105	0.104	0.53	
4-Chloro-3-methylphenol	1	0		7.29	53.41	50	20	0.2	0.280	0.299	6.82	
2-Methylnaphthalene	1	0		7.42	50.09	50	**	0.4	0.683	0.685	0.18	
1-Methylnaphthalene	1	0		7.49	49.76	50	**	0.4	0.660	0.657	0.49	
Methylnaphthalenes	1	0		7.42	100.28	50	**			1.348	100.57	
1,1'-Biphenyl	1	0		7.79	48.73	50	20	0.01	0.793	0.773	2.55	
Acenaphthene-d10	1	0	I	8.30	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.55	47.48	50	20	0.01	0.574	0.545	5.05	
Hexachlorocyclopentadiene	1	0		7.53	9.14	50	20	0.05	0.166	0.032	81.73	C1
2,4,6-Trichlorophenol	1	0		7.64	44.94	50	20	0.2	0.409	0.368	10.12	
2,4,5-Trichlorophenol	1	0		7.68	46.31	50	20	0.2	0.429	0.398	7.37	
2-Fluorobiphenyl	1	0	S	7.70	24.20	25	**		1.447	1.400	3.21	
2-Chloronaphthalene	1	0		7.82	49.41	50	20	0.8	1.250	1.235	1.17	
1,4-Dimethylnaphthalene	1	0		8.10	52.91	50	**		0.987	1.045	5.82	
Dimethylnaphthalenes	1	0		8.10	52.91	50	20			1.045	5.82	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116525.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2022 2:42:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.87	50.16	50	**		0.841	0.844	0.32	
2-Nitroaniline	1	0		7.90	59.80	50	20	0.01	0.407	0.486	19.60	
Coumarin	1	0		8.09	52.40		**		0.488			
Acenaphthylene	1	0		8.17	49.95	50	20	0.9	1.938	1.936	0.09	
Dimethylphthalate	1	0		8.03	49.95	50	20	0.01	1.395	1.394	0.11	
2,6-Dinitrotoluene	1	0		8.10	54.99	50	20	0.2	0.305	0.335	9.99	
Acenaphthene	1	0		8.33	49.38	50	20	0.9	1.289	1.273	1.23	
3-Nitroaniline	1	0		8.26	53.08	50	20	0.01	0.363	0.385	6.15	
2,4-Dinitrophenol	1	0		8.36	33.33	50	20	0.2	0.140	0.093	33.34	C1
Dibenzofuran	1	0		8.48	47.11	50	20	0.8	1.800	1.696	5.78	
2,4-Dinitrotoluene	1	0		8.47	49.83	50	20	0.2	0.412	0.411	0.34	
4-Nitrophenol	1	0		8.40	41.86	50	20	0.01	0.248	0.208	16.29	
2,3,4,6-Tetrachlorophenol	1	0		8.59	43.05	50	20	0.01	0.331	0.285	13.90	
Fluorene	1	0		8.81	46.71	50	20	0.9	1.449	1.353	6.57	
4-Chlorophenyl-phenylether	1	0		8.79	42.97	50	20	0.4	0.695	0.597	14.06	
Diethylphthalate	1	0		8.67	49.32	50	20	0.01	1.368	1.349	1.35	
4-Nitroaniline	1	0		8.82	47.71	50	20	0.01	0.394	0.376	4.58	
Atrazine	1	0		9.44	45.34	50	20	0.01	0.385	0.349	9.32	
Phenanthrene-d10	1	0	I	9.77	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.86	39.08	50	20	0.01	0.103	0.083	21.84	C1
n-Nitrosodiphenylamine	1	0		8.90	46.40	50	20	0.01	0.629	0.584	7.20	
2,4,6-Tribromophenol	1	0	S	9.05	49.39	50	**		0.091	0.090	1.21	
1,2-Diphenylhydrazine	1	0		8.95	63.48	50	**		0.666	0.845	26.96	
4-Bromophenyl-phenylether	1	0		9.28	46.84	50	20	0.1	0.195	0.182	6.32	
Hexachlorobenzene	1	0		9.36	49.54	50	20	0.1	0.208	0.206	0.93	
N-Octadecane	1	0		9.60	54.37	50	**	0.05	0.321	0.350	8.74	
Pentachlorophenol	1	0		9.56	38.02	50	20	0.05	0.117	0.089	23.95	C1
Phenanthrene	1	0		9.79	50.26	50	20	0.7	1.043	1.048	0.52	
Anthracene	1	0		9.85	50.78	50	20	0.7	1.058	1.075	1.57	
Carbazole	1	0		10.02	51.24	50	20	0.01	0.999	1.024	2.48	
Di-n-butylphthalate	1	0		10.39	52.22	50	20	0.01	1.166	1.217	4.43	
Fluoranthene	1	0		11.13	49.13	50	20	0.6	1.140	1.120	1.73	
Chrysene-d12	1	0	I	12.83	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.40	47.00	50	20	0.6	1.322	1.243	6.01	
Benzidine	1	0		11.29	40.92	50	**		0.687	0.562	18.17	
Terphenyl-d14	1	0	S	11.57	24.31	25	**		0.748	0.728	2.75	
4,4'-DDE	1	0		11.50	49.28		**		0.249			
4,4'-DDD	1	0		11.90	50.92		**		0.440			
Butylbenzylphthalate	1	0		12.16	50.80	50	20	0.01	0.576	0.586	1.60	
4,4'-DDT	1	0		12.26	53.51		**		0.330			
3,3'-Dichlorobenzidine	1	0		12.79	51.67	50	20	0.01	0.460	0.475	3.34	
Benzo[a]anthracene	1	0		12.82	46.44	50	20	0.8	1.253	1.163	7.12	
Chrysene	1	0		12.87	45.76	50	20	0.7	1.141	1.044	8.48	
bis(2-Ethylhexyl)phthalate	1	0		12.84	51.18	50	20	0.01	0.811	0.830	2.35	
Perylene-d12	1	0	I	14.47	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.59	48.41	50	20	0.01	1.339	1.297	3.19	
Benzo[b]fluoranthene	1	0		14.05	44.69	50	20	0.7	1.187	1.061	10.61	
Benzo[k]fluoranthene	1	0		14.07	44.51	50	20	0.7	1.117	0.994	10.97	
Benzo[a]pyrene	1	0		14.41	47.02	50	20	0.7	1.120	1.053	5.97	
Indeno[1,2,3-cd]pyrene	1	0		15.83	46.43	50	20	0.5	1.174	1.090	7.14	
Dibenzo[a,h]anthracene	1	0		15.84	47.99	50	20	0.4	1.011	0.970	4.03	
Benzo[g,h,i]perylene	1	0		16.22	44.17	50	20	0.5	1.017	0.898	11.66	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116525.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/26/2022 2:42:00 P Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.672	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.987	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116552.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/27/2022 8:41:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.62	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.66	50.59	50	**		0.921	0.932	1.17	
Pyridine	1	0		3.13	42.98	50	**		1.809	1.555	14.05	
N-Nitrosodimethylamine	1	0		3.07	54.10	50	**		1.458	1.577	8.21	
2-Fluorophenol	1	0	S	4.66	48.91	50	**		2.220	2.172	2.18	
Benzaldehyde	1	0		5.48	51.49	50	20	0.01	1.690	1.740	2.97	
Aniline	1	0		5.57	52.13	50	**		3.293	3.434	4.26	
Pentachloroethane	1	0		5.60	51.45	50	**	0.05	0.810	0.834	2.91	
bis(2-Chloroethyl)ether	1	0		5.62	50.30	50	20	0.7	2.321	2.335	0.60	
Phenol-d5	1	0	S	5.54	52.36	50	**		2.639	2.764	4.72	
Phenol	1	0		5.55	50.39	50	20	0.8	3.213	3.238	0.78	
2-Chlorophenol	1	0		5.67	50.51	50	20	0.8	2.534	2.560	1.02	
N-Decane	1	0		5.70	46.34	50	**	0.05	2.433	2.255	7.33	
1,3-Dichlorobenzene	1	0		5.80	48.70	50	**		2.736	2.665	2.60	
1,4-Dichlorobenzene-d4	1	0	I	5.85	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.86	49.86	50	20		1.534	1.530	0.27	
1,2-Dichlorobenzene	1	0		5.99	50.00	50	**		1.444	1.444	0.00	
Benzyl alcohol	1	0		5.96	53.79	50	**		0.849	0.914	7.57	
bis(2-chloroisopropyl)ether	1	0		6.07	51.11	50	20	0.01	1.630	1.666	2.21	
2-Methylphenol	1	0		6.06	52.48	50	20	0.7	1.239	1.301	4.95	
Acetophenone	1	0		6.18	60.20	50	20	0.01	1.541	1.855	20.40	
Hexachloroethane	1	0		6.26	53.91	50	20	0.3	0.547	0.590	7.83	
N-Nitroso-di-n-propylamine	1	0		6.17	60.95	50	20	0.5	0.860	1.048	21.91	C1
3&4-Methylphenol	1	0		6.18	55.54	50	20		1.220	1.356	11.09	
Naphthalene-d8	1	0	I	6.86	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.30	25.57	25	**		0.159	0.162	2.29	
Nitrobenzene	1	0		6.32	56.93	50	20	0.2	0.327	0.372	13.86	
Isophorone	1	0		6.50	55.81	50	20	0.4	0.616	0.688	11.62	
2-Nitrophenol	1	0		6.56	49.92	50	20	0.1	0.189	0.188	0.15	
2,4-Dimethylphenol	1	0		6.59	53.81	50	20	0.2	0.332	0.358	7.62	
Benzoic Acid	1	0		6.66	41.54	50	**		0.215	0.189	16.92	
bis(2-Chloroethoxy)methane	1	0		6.66	52.83	50	20	0.3	0.376	0.397	5.67	
2,4-Dichlorophenol	1	0		6.75	47.38	50	20	0.2	0.291	0.276	5.24	
1,2,4-Trichlorobenzene	1	0		6.81	46.93	50	**		0.310	0.291	6.15	
Naphthalene	1	0		6.87	50.95	50	20	0.7	1.050	1.070	1.89	
4-Chloroaniline	1	0		6.91	54.75	50	20	0.01	0.372	0.407	9.49	
Hexachlorobutadiene	1	0		6.96	49.55	50	20	0.01	0.162	0.160	0.89	
Caprolactam	1	0		7.19	52.28	50	20	0.01	0.105	0.110	4.56	
4-Chloro-3-methylphenol	1	0		7.28	53.77	50	20	0.2	0.280	0.301	7.53	
2-Methylnaphthalene	1	0		7.41	49.69	50	**	0.4	0.683	0.679	0.62	
1-Methylnaphthalene	1	0		7.49	50.89	50	**	0.4	0.660	0.672	1.77	
Methylnaphthalenes	1	0		7.49	99.87	50	**			1.342	99.75	
1,1'-Biphenyl	1	0		7.78	49.40	50	20	0.01	0.793	0.783	1.20	
Acenaphthene-d10	1	0	I	8.29	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.54	48.06	50	20	0.01	0.574	0.552	3.88	
Hexachlorocyclopentadiene	1	0		7.53	5.14	50	20	0.05	0.166	0.018	89.72	C1
2,4,6-Trichlorophenol	1	0		7.63	46.09	50	20	0.2	0.409	0.377	7.83	
2,4,5-Trichlorophenol	1	0		7.67	44.96	50	20	0.2	0.429	0.386	10.08	
2-Fluorobiphenyl	1	0	S	7.69	23.62	25	**		1.447	1.367	5.51	
2-Chloronaphthalene	1	0		7.81	49.66	50	20	0.8	1.250	1.241	0.68	
1,4-Dimethylnaphthalene	1	0		8.09	51.77	50	**		0.987	1.022	3.54	
Dimethylnaphthalenes	1	0		8.09	51.77	50	20			1.022	3.54	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116552.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/27/2022 8:41:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.86	49.33	50	**		0.841	0.830	1.34	
2-Nitroaniline	1	0		7.89	48.69	50	20	0.01	0.407	0.396	2.62	
Coumarin	1	0		8.08	52.68		**		0.488			
Acenaphthylene	1	0		8.17	49.82	50	20	0.9	1.938	1.931	0.35	
Dimethylphthalate	1	0		8.03	51.10	50	20	0.01	1.395	1.426	2.19	
2,6-Dinitrotoluene	1	0		8.09	55.20	50	20	0.2	0.305	0.337	10.41	
Acenaphthene	1	0		8.32	50.85	50	20	0.9	1.289	1.311	1.71	
3-Nitroaniline	1	0		8.25	53.27	50	20	0.01	0.363	0.387	6.54	
2,4-Dinitrophenol	1	0		8.35	36.74	50	20	0.2	0.140	0.104	26.51	C1
Dibenzofuran	1	0		8.47	48.31	50	20	0.8	1.800	1.739	3.38	
2,4-Dinitrotoluene	1	0		8.46	51.66	50	20	0.2	0.412	0.426	3.32	
4-Nitrophenol	1	0		8.39	44.65	50	20	0.01	0.248	0.221	10.71	
2,3,4,6-Tetrachlorophenol	1	0		8.59	46.97	50	20	0.01	0.331	0.311	6.06	
Fluorene	1	0		8.80	51.16	50	20	0.9	1.449	1.482	2.32	
4-Chlorophenyl-phenylether	1	0		8.78	47.95	50	20	0.4	0.695	0.667	4.09	
Diethylphthalate	1	0		8.66	52.10	50	20	0.01	1.368	1.425	4.21	
4-Nitroaniline	1	0		8.82	51.78	50	20	0.01	0.394	0.408	3.55	
Atrazine	1	0		9.43	46.37	50	20	0.01	0.385	0.357	7.25	
Phenanthrene-d10	1	0	I	9.76	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.85	42.93	50	20	0.01	0.103	0.092	14.14	
n-Nitrosodiphenylamine	1	0		8.90	52.68	50	20	0.01	0.629	0.663	5.35	
2,4,6-Tribromophenol	1	0	S	9.03	54.02	50	**		0.091	0.099	8.03	
1,2-Diphenylhydrazine	1	0		8.94	60.32	50	**		0.666	0.803	20.63	
4-Bromophenyl-phenylether	1	0		9.27	51.18	50	20	0.1	0.195	0.199	2.35	
Hexachlorobenzene	1	0		9.35	54.97	50	20	0.1	0.208	0.228	9.94	
N-Octadecane	1	0		9.59	58.65	50	**	0.05	0.321	0.377	17.30	
Pentachlorophenol	1	0		9.55	36.14	50	20	0.05	0.117	0.084	27.72	C1
Phenanthrene	1	0		9.78	50.01	50	20	0.7	1.043	1.043	0.02	
Anthracene	1	0		9.84	50.50	50	20	0.7	1.058	1.069	0.99	
Carbazole	1	0		10.01	51.98	50	20	0.01	0.999	1.039	3.95	
Di-n-butylphthalate	1	0		10.37	56.66	50	20	0.01	1.166	1.321	13.33	
Fluoranthene	1	0		11.12	54.32	50	20	0.6	1.140	1.239	8.63	
Chrysene-d12	1	0	I	12.82	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.39	44.03	50	20	0.6	1.322	1.165	11.93	
Benzidine	1	0		11.27	38.39	50	**		0.687	0.528	23.21	
Terphenyl-d14	1	0	S	11.56	22.66	25	**		0.748	0.678	9.36	
4,4'-DDE	1	0		11.49	45.94		**		0.249			
4,4'-DDD	1	0		11.89	48.25		**		0.440			
Butylbenzylphthalate	1	0		12.14	46.66	50	20	0.01	0.576	0.538	6.68	
4,4'-DDT	1	0		12.24	48.68		**		0.330			
3,3'-Dichlorobenzidine	1	0		12.77	51.86	50	20	0.01	0.460	0.477	3.72	
Benzo[a]anthracene	1	0		12.81	45.88	50	20	0.8	1.253	1.149	8.25	
Chrysene	1	0		12.85	45.94	50	20	0.7	1.141	1.048	8.12	
bis(2-Ethylhexyl)phthalate	1	0		12.83	48.90	50	20	0.01	0.811	0.793	2.21	
Perylene-d12	1	0	I	14.46	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	47.76	50	20	0.01	1.339	1.280	4.47	
Benzo[b]fluoranthene	1	0		14.03	48.69	50	20	0.7	1.187	1.156	2.61	
Benzo[k]fluoranthene	1	0		14.06	48.35	50	20	0.7	1.117	1.080	3.31	
Benzo[a]pyrene	1	0		14.39	48.39	50	20	0.7	1.120	1.084	3.22	
Indeno[1,2,3-cd]pyrene	1	0		15.82	51.51	50	20	0.5	1.174	1.210	3.03	
Dibenzo[a,h]anthracene	1	0		15.82	53.20	50	20	0.4	1.011	1.075	6.39	
Benzo[g,h,i]perylene	1	0		16.20	50.85	50	20	0.5	1.017	1.034	1.71	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116552.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/27/2022 8:41:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.672	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.987	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124775.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/28/2022 8:57:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	50.44	50	**		0.947	0.955	0.89	
Pyridine	1	0		3.06	51.17	50	**		1.680	1.719	2.34	
N-Nitrosodimethylamine	1	0		3.00	61.34	50	**		1.448	1.776	22.68	
2-Fluorophenol	1	0	S	4.60	55.41	50	**		2.218	2.459	10.82	
Benzaldehyde	1	0		5.41	53.87	50	20	0.01	1.685	1.816	7.74	
Aniline	1	0		5.50	58.55	50	**		3.241	3.795	17.10	
Pentachloroethane	1	0		5.54	54.14	50	**	0.05	0.794	0.860	8.27	
bis(2-Chloroethyl)ether	1	0		5.55	57.14	50	20	0.7	2.270	2.594	14.27	
Phenol-d5	1	0	S	5.47	59.54	50	**		2.605	3.102	19.07	
Phenol	1	0		5.48	58.94	50	20	0.8	3.152	3.716	17.87	
2-Chlorophenol	1	0		5.60	55.65	50	20	0.8	2.392	2.662	11.30	
N-Decane	1	0		5.64	61.19	50	**	0.05	1.665	2.037	22.38	
1,3-Dichlorobenzene	1	0		5.72	53.15	50	**		2.643	2.810	6.31	
1,4-Dichlorobenzene-d4	1	0	I	5.78	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.79	50.65	50	20		1.495	1.515	1.30	
1,2-Dichlorobenzene	1	0		5.91	50.06	50	**		1.430	1.431	0.12	
Benzyl alcohol	1	0		5.89	54.41	50	**		0.888	0.967	8.83	
bis(2-chloroisopropyl)ether	1	0		6.00	65.46	50	20	0.01	1.045	1.368	30.93	C1
2-Methylphenol	1	0		5.98	55.48	50	20	0.7	1.189	1.319	10.95	
Acetophenone	1	0		6.10	55.68	50	20	0.01	1.567	1.744	11.35	
Hexachloroethane	1	0		6.18	51.92	50	20	0.3	0.543	0.564	3.84	
N-Nitroso-di-n-propylamine	1	0		6.10	58.41	50	20	0.5	0.822	0.961	16.82	
3&4-Methylphenol	1	0		6.10	57.78	50	20		1.145	1.324	15.57	
Naphthalene-d8	1	0	I	6.78	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.22	28.14	25	**		0.157	0.177	12.58	
Nitrobenzene	1	0		6.24	56.78	50	20	0.2	0.336	0.382	13.57	
Isophorone	1	0		6.42	56.55	50	20	0.4	0.649	0.735	13.11	
2-Nitrophenol	1	0		6.48	58.85	50	20	0.1	0.178	0.210	17.69	
2,4-Dimethylphenol	1	0		6.51	52.45	50	20	0.2	0.347	0.364	4.89	
Benzoic Acid	1	0		6.58	33.26	50	**		0.250	0.163	33.48	
bis(2-Chloroethoxy)methane	1	0		6.58	55.86	50	20	0.3	0.384	0.429	11.71	
2,4-Dichlorophenol	1	0		6.67	53.37	50	20	0.2	0.292	0.311	6.74	
1,2,4-Trichlorobenzene	1	0		6.74	50.35	50	**		0.328	0.331	0.71	
Naphthalene	1	0		6.79	50.54	50	20	0.7	1.070	1.082	1.08	
4-Chloroaniline	1	0		6.83	55.77	50	20	0.01	0.377	0.421	11.53	
Hexachlorobutadiene	1	0		6.88	48.24	50	20	0.01	0.187	0.181	3.52	
Caprolactam	1	0		7.11	54.41	50	20	0.01	0.111	0.121	8.82	
4-Chloro-3-methylphenol	1	0		7.20	53.70	50	20	0.2	0.299	0.321	7.39	
2-Methylnaphthalene	1	0		7.33	52.90	50	**	0.4	0.684	0.724	5.81	
1-Methylnaphthalene	1	0		7.41	51.93	50	**	0.4	0.662	0.687	3.86	
Methylnaphthalenes	1	0		7.33	105.15	50	**			1.415	110.30	
1,1'-Biphenyl	1	0		7.70	51.21	50	20	0.01	0.827	0.847	2.43	
Acenaphthene-d10	1	0	I	8.21	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.46	52.53	50	20	0.01	0.564	0.592	5.05	
Hexachlorocyclopentadiene	1	0		7.45	17.55	50	20	0.05	0.304	0.107	64.90	C1
2,4,6-Trichlorophenol	1	0		7.55	51.54	50	20	0.2	0.411	0.424	3.08	
2,4,5-Trichlorophenol	1	0		7.59	49.15	50	20	0.2	0.432	0.425	1.70	
2-Fluorobiphenyl	1	0	S	7.62	24.98	25	**		1.460	1.459	0.09	
2-Chloronaphthalene	1	0		7.73	51.17	50	20	0.8	1.206	1.234	2.34	
1,4-Dimethylnaphthalene	1	0		8.01	53.11	50	**		0.923	0.980	6.22	
Dimethylnaphthalenes	1	0		8.01	53.11	50	20			0.980	6.22	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124775.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/28/2022 8:57:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.79	51.76	50	**		0.825	0.854	3.53	
2-Nitroaniline	1	0		7.80	52.12	50	20	0.01	0.332	0.346	4.23	
Coumarin	1	0		7.99	53.35		**		0.473			
Acenaphthylene	1	0		8.09	50.76	50	20	0.9	1.884	1.912	1.53	
Dimethylphthalate	1	0		7.95	50.48	50	20	0.01	1.415	1.429	0.96	
2,6-Dinitrotoluene	1	0		8.01	55.50	50	20	0.2	0.296	0.329	11.01	
Acenaphthene	1	0		8.24	51.86	50	20	0.9	1.210	1.255	3.73	
3-Nitroaniline	1	0		8.16	57.51	50	20	0.01	0.338	0.388	15.03	
2,4-Dinitrophenol	1	0		8.26	50.18	50	20	0.2	0.153	0.164	0.35	
Dibenzofuran	1	0		8.40	50.09	50	20	0.8	1.847	1.850	0.17	
2,4-Dinitrotoluene	1	0		8.37	53.66	50	20	0.2	0.415	0.446	7.32	
4-Nitrophenol	1	0		8.29	53.31	50	20	0.01	0.221	0.236	6.62	
2,3,4,6-Tetrachlorophenol	1	0		8.50	50.20	50	20	0.01	0.370	0.371	0.39	
Fluorene	1	0		8.72	53.47	50	20	0.9	1.401	1.499	6.93	
4-Chlorophenyl-phenylether	1	0		8.71	51.58	50	20	0.4	0.722	0.744	3.17	
Diethylphthalate	1	0		8.59	50.96	50	20	0.01	1.402	1.429	1.92	
4-Nitroaniline	1	0		8.73	55.05	50	20	0.01	0.361	0.397	10.09	
Atrazine	1	0		9.36	50.85	50	20	0.01	0.395	0.401	1.69	
Phenanthrene-d10	1	0	I	9.68	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.76	52.54	50	20	0.01	0.103	0.115	5.08	
n-Nitrosodiphenylamine	1	0		8.82	52.68	50	20	0.01	0.581	0.612	5.35	
2,4,6-Tribromophenol	1	0	S	8.96	55.62	50	**		0.091	0.102	11.24	
1,2-Diphenylhydrazine	1	0		8.87	59.86	50	**		0.623	0.745	19.72	
4-Bromophenyl-phenylether	1	0		9.20	52.55	50	20	0.1	0.200	0.210	5.09	
Hexachlorobenzene	1	0		9.27	51.84	50	20	0.1	0.219	0.227	3.69	
N-Octadecane	1	0		9.54	64.56	50	**	0.05	0.214	0.276	29.12	
Pentachlorophenol	1	0		9.47	39.98	50	20	0.05	0.146	0.117	20.04	
Phenanthrene	1	0		9.71	51.45	50	20	0.7	0.977	1.006	2.90	
Anthracene	1	0		9.76	52.64	50	20	0.7	0.975	1.027	5.29	
Carbazole	1	0		9.93	52.68	50	20	0.01	0.946	0.996	5.36	
Di-n-butylphthalate	1	0		10.31	57.72	50	20	0.01	1.048	1.210	15.44	
Fluoranthene	1	0		11.04	54.46	50	20	0.6	1.092	1.190	8.91	
Chrysene-d12	1	0	I	12.75	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.31	51.76	50	20	0.6	1.293	1.339	3.53	
Benzidine	1	0		11.20	38.98	50	**		0.582	0.520	22.03	
Terphenyl-d14	1	0	S	11.49	25.01	25	**		0.765	0.765	0.06	
4,4'-DDE	1	0		11.43	49.42		**		0.259			
4,4'-DDD	1	0		11.83	53.28		**		0.454			
Butylbenzylphthalate	1	0		12.09	55.63	50	20	0.01	0.539	0.600	11.26	
4,4'-DDT	1	0		12.19	54.05		**		0.345			
3,3'-Dichlorobenzidine	1	0		12.72	57.76	50	20	0.01	0.450	0.520	15.52	
Benzo[a]anthracene	1	0		12.74	51.18	50	20	0.8	1.219	1.248	2.37	
Chrysene	1	0		12.79	50.36	50	20	0.7	1.112	1.120	0.72	
bis(2-Ethylhexyl)phthalate	1	0		12.79	54.28	50	20	0.01	0.709	0.770	8.56	
Perylene-d12	1	0	I	14.40	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.54	58.39	50	20	0.01	1.174	1.371	16.79	
Benzo[b]fluoranthene	1	0		13.97	52.74	50	20	0.7	1.127	1.189	5.47	
Benzo[k]fluoranthene	1	0		14.00	51.98	50	20	0.7	1.094	1.138	3.95	
Benzo[a]pyrene	1	0		14.33	52.43	50	20	0.7	1.078	1.130	4.85	
Indeno[1,2,3-cd]pyrene	1	0		15.75	51.70	50	20	0.5	1.154	1.193	3.41	
Dibenzo[a,h]anthracene	1	0		15.78	50.74	50	20	0.4	1.014	1.029	1.47	
Benzo[g,h,i]perylene	1	0		16.15	50.90	50	20	0.5	1.016	1.034	1.80	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124775.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/28/2022 8:57:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.673	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.923	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116583.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/28/2022 10:10:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.63	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.66	53.28	50	**		0.921	0.982	6.57	
Pyridine	1	0		3.14	51.06	50	**		1.809	1.848	2.11	
N-Nitrosodimethylamine	1	0		3.07	63.06	50	**		1.458	1.838	26.12	
2-Fluorophenol	1	0	S	4.66	59.42	50	**		2.220	2.638	18.83	
Benzaldehyde	1	0		5.47	58.42	50	20	0.01	1.690	1.975	16.84	
Aniline	1	0		5.57	61.43	50	**		3.293	4.046	22.86	
Pentachloroethane	1	0		5.60	62.23	50	**	0.05	0.810	1.009	24.46	
bis(2-Chloroethyl)ether	1	0		5.62	63.27	50	20	0.7	2.321	2.937	26.54	C1
Phenol-d5	1	0	S	5.54	62.77	50	**		2.639	3.313	25.54	
Phenol	1	0		5.55	66.37	50	20	0.8	3.213	4.265	32.74	C1
2-Chlorophenol	1	0		5.67	61.54	50	20	0.8	2.534	3.119	23.07	C1
N-Decane	1	0		5.70	50.28	50	**	0.05	2.433	2.447	0.57	
1,3-Dichlorobenzene	1	0		5.80	63.61	50	**		2.736	3.481	27.22	
1,4-Dichlorobenzene-d4	1	0	I	5.85	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.86	50.93	50	20		1.534	1.563	1.86	
1,2-Dichlorobenzene	1	0		5.98	50.84	50	**		1.444	1.468	1.69	
Benzyl alcohol	1	0		5.96	49.87	50	**		0.849	0.847	0.25	
bis(2-chloroisopropyl)ether	1	0		6.07	41.45	50	20	0.01	1.630	1.351	17.10	
2-Methylphenol	1	0		6.05	48.74	50	20	0.7	1.239	1.208	2.52	
Acetophenone	1	0		6.17	57.87	50	20	0.01	1.541	1.784	15.75	
Hexachloroethane	1	0		6.25	52.32	50	20	0.3	0.547	0.573	4.64	
N-Nitroso-di-n-propylamine	1	0		6.17	57.52	50	20	0.5	0.860	0.989	15.05	
3&4-Methylphenol	1	0		6.17	52.28	50	20		1.220	1.276	4.57	
Naphthalene-d8	1	0	I	6.85	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.30	24.16	25	**		0.159	0.153	3.35	
Nitrobenzene	1	0		6.32	54.53	50	20	0.2	0.327	0.357	9.06	
Isophorone	1	0		6.50	51.68	50	20	0.4	0.616	0.637	3.35	
2-Nitrophenol	1	0		6.56	51.86	50	20	0.1	0.189	0.196	3.72	
2,4-Dimethylphenol	1	0		6.59	51.16	50	20	0.2	0.332	0.340	2.33	
Benzoic Acid	1	0		6.66	41.45	50	**		0.215	0.189	17.11	
bis(2-Chloroethoxy)methane	1	0		6.66	50.96	50	20	0.3	0.376	0.383	1.91	
2,4-Dichlorophenol	1	0		6.75	50.96	50	20	0.2	0.291	0.297	1.93	
1,2,4-Trichlorobenzene	1	0		6.80	55.15	50	**		0.310	0.342	10.31	
Naphthalene	1	0		6.87	48.26	50	20	0.7	1.050	1.014	3.49	
4-Chloroaniline	1	0		6.91	54.80	50	20	0.01	0.372	0.407	9.61	
Hexachlorobutadiene	1	0		6.95	60.83	50	20	0.01	0.162	0.197	21.67	C1
Caprolactam	1	0		7.19	49.79	50	20	0.01	0.105	0.104	0.41	
4-Chloro-3-methylphenol	1	0		7.27	52.22	50	20	0.2	0.280	0.293	4.43	
2-Methylnaphthalene	1	0		7.40	51.94	50	**	0.4	0.683	0.710	3.89	
1-Methylnaphthalene	1	0		7.49	51.67	50	**	0.4	0.660	0.682	3.34	
Methylnaphthalenes	1	0		7.40	103.76	50	**			1.394	107.52	
1,1'-Biphenyl	1	0		7.78	53.43	50	20	0.01	0.793	0.847	6.85	
Acenaphthene-d10	1	0	I	8.29	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.54	53.42	50	20	0.01	0.574	0.613	6.84	
Hexachlorocyclopentadiene	1	0		7.52	6.20	50	20	0.05	0.166	0.021	87.61	C1
2,4,6-Trichlorophenol	1	0		7.63	49.55	50	20	0.2	0.409	0.406	0.91	
2,4,5-Trichlorophenol	1	0		7.67	50.89	50	20	0.2	0.429	0.437	1.78	
2-Fluorobiphenyl	1	0	S	7.69	25.07	25	**		1.447	1.451	0.28	
2-Chloronaphthalene	1	0		7.80	51.39	50	20	0.8	1.250	1.285	2.79	
1,4-Dimethylnaphthalene	1	0		8.08	52.17	50	**		0.987	1.030	4.34	
Dimethylnaphthalenes	1	0		8.08	52.17	50	20			1.030	4.34	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116583.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/28/2022 10:10:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.86	52.05	50	**		0.841	0.875	4.11	
2-Nitroaniline	1	0		7.89	55.07	50	20	0.01	0.407	0.448	10.15	
Coumarin	1	0		8.07	51.14		**		0.488			
Acenaphthylene	1	0		8.16	48.99	50	20	0.9	1.938	1.899	2.02	
Dimethylphthalate	1	0		8.02	51.28	50	20	0.01	1.395	1.431	2.56	
2,6-Dinitrotoluene	1	0		8.09	56.30	50	20	0.2	0.305	0.343	12.60	
Acenaphthene	1	0		8.32	49.69	50	20	0.9	1.289	1.280	0.62	
3-Nitroaniline	1	0		8.25	49.73	50	20	0.01	0.363	0.361	0.54	
2,4-Dinitrophenol	1	0		8.35	44.96	50	20	0.2	0.140	0.129	10.09	
Dibenzofuran	1	0		8.47	51.41	50	20	0.8	1.800	1.851	2.82	
2,4-Dinitrotoluene	1	0		8.46	55.21	50	20	0.2	0.412	0.455	10.42	
4-Nitrophenol	1	0		8.39	40.73	50	20	0.01	0.248	0.202	18.54	
2,3,4,6-Tetrachlorophenol	1	0		8.58	50.94	50	20	0.01	0.331	0.338	1.88	
Fluorene	1	0		8.79	51.19	50	20	0.9	1.449	1.483	2.39	
4-Chlorophenyl-phenylether	1	0		8.78	53.74	50	20	0.4	0.695	0.747	7.48	
Diethylphthalate	1	0		8.65	51.84	50	20	0.01	1.368	1.418	3.68	
4-Nitroaniline	1	0		8.81	48.36	50	20	0.01	0.394	0.381	3.28	
Atrazine	1	0		9.42	53.40	50	20	0.01	0.385	0.411	6.80	
Phenanthrene-d10	1	0	I	9.75	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.85	48.71	50	20	0.01	0.103	0.105	2.58	
n-Nitrosodiphenylamine	1	0		8.89	51.24	50	20	0.01	0.629	0.645	2.48	
2,4,6-Tribromophenol	1	0	S	9.03	52.01	50	**		0.091	0.095	4.02	
1,2-Diphenylhydrazine	1	0		8.93	57.17	50	**		0.666	0.761	14.35	
4-Bromophenyl-phenylether	1	0		9.27	55.87	50	20	0.1	0.195	0.218	11.75	
Hexachlorobenzene	1	0		9.35	56.78	50	20	0.1	0.208	0.236	13.57	
N-Octadecane	1	0		9.59	43.35	50	**	0.05	0.321	0.279	13.30	
Pentachlorophenol	1	0		9.55	38.87	50	20	0.05	0.117	0.091	22.26	C1
Phenanthrene	1	0		9.78	50.69	50	20	0.7	1.043	1.057	1.39	
Anthracene	1	0		9.83	50.81	50	20	0.7	1.058	1.075	1.62	
Carbazole	1	0		10.01	49.18	50	20	0.01	0.999	0.983	1.63	
Di-n-butylphthalate	1	0		10.37	50.18	50	20	0.01	1.166	1.170	0.37	
Fluoranthene	1	0		11.12	51.60	50	20	0.6	1.140	1.177	3.19	
Chrysene-d12	1	0	I	12.82	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.38	47.15	50	20	0.6	1.322	1.247	5.70	
Benzidine	1	0		11.27	37.48	50	**		0.687	0.515	25.05	
Terphenyl-d14	1	0	S	11.56	23.45	25	**		0.748	0.702	6.20	
4,4'-DDE	1	0		11.49	50.46		**		0.249			
4,4'-DDD	1	0		11.89	51.04		**		0.440			
Butylbenzylphthalate	1	0		12.14	44.79	50	20	0.01	0.576	0.516	10.41	
4,4'-DDT	1	0		12.24	55.59		**		0.330			
3,3'-Dichlorobenzidine	1	0		12.77	53.04	50	20	0.01	0.460	0.488	6.09	
Benzo[a]anthracene	1	0		12.81	50.55	50	20	0.8	1.253	1.266	1.09	
Chrysene	1	0		12.85	49.38	50	20	0.7	1.141	1.127	1.25	
bis(2-Ethylhexyl)phthalate	1	0		12.82	46.73	50	20	0.01	0.811	0.758	6.54	
Perylene-d12	1	0	I	14.45	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	46.98	50	20	0.01	1.339	1.259	6.03	
Benzo[b]fluoranthene	1	0		14.03	49.29	50	20	0.7	1.187	1.170	1.42	
Benzo[k]fluoranthene	1	0		14.06	54.06	50	20	0.7	1.117	1.207	8.11	
Benzo[a]pyrene	1	0		14.39	51.30	50	20	0.7	1.120	1.149	2.61	
Indeno[1,2,3-cd]pyrene	1	0		15.81	54.74	50	20	0.5	1.174	1.285	9.48	
Dibenzo[a,h]anthracene	1	0		15.82	56.08	50	20	0.4	1.011	1.133	12.16	
Benzo[g,h,i]perylene	1	0		16.20	53.50	50	20	0.5	1.017	1.088	6.99	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 9M116583.D **Instrument:** GCMS 9

Cont Calibration Date/Time 10/28/2022 10:10:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.672	0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.987	0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

2101501 0132

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M92872.D Method: EPA 8270E

Analysis Date/Time: 09/21/22 12:02

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	43679	2.71	83523	5.87	320678	6.87	158404	8.30	317079	9.76	288029	12.80	295795	14.42
Eval File Area Limit:	21840-87358		41762-167046		160339-641356		79202-316808		158540-634158		144014-576058		147898-591590	
Eval File Rt Limit:	2.21-3.21		5.37-6.37		6.37-7.37		7.8-8.8		9.26-10.26		12.3-13.3		13.92-14.92	

Data File	Sample#													
10M92864.D	CAL BNA@2PPM	45320	2.70	85694	5.87	332880	6.87	162585	8.30	326265	9.76	285394	12.80	294530	14.42
10M92865.D	CAL BNA@10PPM	40174	2.71	75914	5.87	297024	6.87	147217	8.30	292522	9.76	262584	12.80	270773	14.42
10M92866.D	CAL BNA@0.5PPM	44739	2.71	84004	5.87	329199	6.87	162863	8.30	328053	9.76	286823	12.80	298280	14.43
10M92867.D	CAL BNA@196PPM	42556	2.71	79462	5.87	308863	6.88	149303	8.31	301234	9.77	275242	12.82	289907	14.43
10M92868.D	CAL BNA@160PPM	42748	2.71	80088	5.87	308905	6.88	151203	8.31	305844	9.77	275937	12.82	286721	14.43
10M92869.D	CAL BNA@120PPM	41932	2.71	79284	5.87	304308	6.88	150279	8.31	303282	9.76	277674	12.81	288788	14.42
10M92870.D	CAL BNA@80PPM	43715	2.71	83373	5.87	319944	6.87	154937	8.30	311994	9.76	280381	12.81	291020	14.42
10M92871.D	CAL BNA@20PPM	44464	2.71	86143	5.87	330097	6.87	161417	8.30	323690	9.76	293467	12.80	304447	14.42
10M92872.D	CAL BNA@50PPM	43679	2.71	83523	5.87	320678	6.87	158404	8.30	317079	9.76	288029	12.80	295795	14.42
10M92873.D	ICV BNA@50PPM	44752	2.71	86040	5.87	329168	6.87	163609	8.30	328294	9.76	298748	12.81	327891	14.42

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101501 0133

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M115655.D Method: EPA 8270E

Analysis Date/Time: 09/21/22 12:07

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	47016	2.65	88674	5.86	339729	6.87	169621	8.30	344162	9.77	306237	12.83	307128	14.46
Eval File Area Limit:	23508-94032		44337-177348		169864-679458		84810-339242		172081-688324		153118-612474		153564-614256	
Eval File Rt Limit:	2.15-3.15		5.36-6.36		6.37-7.37		7.8-8.8		9.27-10.27		12.33-13.33		13.96-14.96	

Data File	Sample#													
9M115647.D	CAL BNA@2PPM	51370	2.65	93714	5.86	360341	6.87	179245	8.30	362310	9.77	314269	12.83	312620	14.47
9M115648.D	CAL BNA@10PPM	46079	2.65	84876	5.86	327487	6.87	165001	8.30	335660	9.77	292413	12.83	288770	14.46
9M115649.D	CAL BNA@196PPM	49131	2.65	85346	5.87	329852	6.87	162135	8.31	327905	9.78	286268	12.85	296398	14.47
9M115650.D	CAL BNA@160PPM	49047	2.65	84721	5.86	325199	6.87	159468	8.31	323971	9.77	284271	12.85	295070	14.47
9M115651.D	CAL BNA@120PPM	47756	2.65	85565	5.86	328597	6.87	162138	8.31	328304	9.77	292681	12.84	295749	14.47
9M115652.D	CAL BNA@80PPM	51186	2.65	91979	5.86	350811	6.87	173557	8.31	348433	9.77	309156	12.84	312116	14.46
9M115653.D	CAL BNA@20PPM	50997	2.65	96483	5.86	366014	6.87	181313	8.30	363545	9.77	324666	12.83	323608	14.46
9M115654.D	CAL BNA@0.5PPM	48800	2.65	95500	5.86	369872	6.87	185919	8.30	374513	9.77	325364	12.83	317218	14.46
9M115655.D	CAL BNA@50PPM	47016	2.65	88674	5.86	339729	6.87	169621	8.30	344162	9.77	306237	12.83	307128	14.46
9M115656.D	ICV BNA@50PPM	49920	2.65	91912	5.86	355820	6.87	180607	8.30	361781	9.77	326784	12.83	323831	14.46

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101501 0134

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M124024.D Method: EPA 8270E

Analysis Date/Time: 09/21/22 12:13

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	53874	2.56	93475	5.78	355160	6.78	196977	8.21	433785	9.67	384324	12.74	409569	14.37
Eval File Area Limit:	26937-107748		46738-186950		177580-710320		98488-393954		216892-867570		192162-768648		204784-819138	
Eval File Rt Limit:	2.06-3.06		5.28-6.28		6.28-7.28		7.71-8.71		9.17-10.17		12.24-13.24		13.87-14.87	

Data File	Sample#													
7M124016.D	CAL BNA@10PPM	50907	2.56	89259	5.78	334078	6.78	181061	8.21	379615	9.68	334953	12.74	344463	14.37
7M124017.D	CAL BNA@2PPM	61085	2.57	104079	5.78	389088	6.78	207245	8.20	437677	9.67	381998	12.74	391869	14.37
7M124018.D	CAL BNA@196PPM	52483	2.57	86233	5.78	328747	6.78	182060	8.21	399606	9.68	333258	12.75	366515	14.37
7M124019.D	CAL BNA@160PPM	51135	2.57	91374	5.78	347086	6.78	187075	8.21	416254	9.68	349173	12.75	379422	14.37
7M124020.D	CAL BNA@120PPM	51114	2.56	91401	5.78	344218	6.78	190199	8.22	414985	9.68	352407	12.75	382086	14.38
7M124021.D	CAL BNA@80PPM	55755	2.56	98572	5.78	365365	6.78	197635	8.21	436765	9.68	374119	12.75	408295	14.37
7M124022.D	CAL BNA@20PPM	54077	2.56	104038	5.78	390373	6.78	212306	8.20	458763	9.67	406465	12.74	425022	14.37
7M124023.D	CAL BNA@0.5PPM	61905	2.56	112865	5.78	415277	6.78	225641	8.20	480199	9.67	417896	12.73	418208	14.37
7M124024.D	CAL BNA@50PPM	53874	2.56	93475	5.78	355160	6.78	196977	8.21	433785	9.67	384324	12.74	409569	14.37
7M124025.D	ICV BNA@50PPM	56037	2.56	101139	5.78	384852	6.78	210215	8.22	459278	9.68	409191	12.75	432113	14.37
7M124026.D	2PPM TEST	52553	2.56	100692	5.78	373463	6.78	204669	8.21	438060	9.67	382496	12.74	383889	14.37
7M124027.D	WMB103058(MS)	54581	2.57	93978	5.78	344710	6.78	181634	8.20	395806	9.67	346035	12.75	359918	14.37
7M124028.D	WMB103058	51536	2.56	94486	5.78	345299	6.78	183268	8.20	397417	9.67	339693	12.73	336091	14.37
7M124029.D	AD33294-001	58061	2.57	103116	5.78	362908	6.78	189886	8.20	410500	9.67	352629	12.73	349338	14.37
7M124030.D	AD33294-002	60014	2.57	102616	5.78	368493	6.78	200560	8.20	430570	9.67	377033	12.73	379325	14.37
7M124031.D	AD33336-002(MS)	57454	2.55	96967	5.78	361016	6.78	197087	8.20	429371	9.67	373687	12.74	382690	14.37
7M124032.D	AD33336-002(MSD)	54030	2.55	95639	5.78	348812	6.78	192143	8.20	416910	9.67	359680	12.74	367248	14.37
7M124033.D	AD33336-002	54527	2.55	104748	5.78	390697	6.78	212092	8.20	452272	9.67	375555	12.74	375053	14.37
7M124034.D	AD33336-005	55525	2.55	104287	5.78	386960	6.78	206113	8.20	434772	9.67	378052	12.74	382808	14.37
7M124035.D	AD33336-008	53099	2.55	98482	5.78	375315	6.78	200909	8.20	419537	9.67	351335	12.74	355201	14.37
7M124036.D	AD33336-011	54377	2.55	102325	5.78	381771	6.78	202980	8.20	424009	9.67	356923	12.74	349275	14.37
7M124037.D	AD33336-014	52312	2.55	99244	5.78	371447	6.78	201544	8.20	424041	9.67	354302	12.74	354405	14.37
7M124038.D	AD33336-017	50882	2.55	96567	5.78	369079	6.78	196638	8.20	415705	9.67	340763	12.74	351831	14.37
7M124039.D	AD33336-020	52160	2.55	95020	5.78	364114	6.78	195700	8.20	410207	9.67	348935	12.74	349609	14.37
7M124040.D	AD33336-021	55637	2.55	102368	5.78	388573	6.78	208392	8.20	431200	9.67	363898	12.74	366092	14.37
7M124041.D	AD33336-022	50046	2.55	92127	5.78	350952	6.78	186411	8.20	394644	9.67	331817	12.74	331856	14.37
7M124042.D	AD33336-023	50184	2.55	91902	5.78	347881	6.78	185009	8.20	392554	9.67	323909	12.74	324301	14.37
7M124043.D	AD33336-012	54678	2.55	100259	5.78	386265	6.78	204834	8.20	426790	9.67	349889	12.74	352005	14.37

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101501 0135

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M93475.D Method: EPA 8270E

Analysis Date/Time: 10/25/22 08:28

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	27563	2.71	59616	5.87	233925	6.87	119631	8.30	254277	9.76	241303	12.80	255014	14.42
Eval File Area Limit:	13782-55126		29808-119232		116962-467850		59816-239262		127138-508554		120652-482606		127507-510028	
Eval File Rt Limit:	2.21-3.21		5.37-6.37		6.37-7.37		7.8-8.8		9.26-10.26		12.3-13.3		13.92-14.92	

Data File	Sample#													
10M93476.D	WMB103391(MS)	23125	2.70	48081	5.87	181880	6.87	92515	8.30	195393	9.76	183907	12.80	204580	14.42
10M93480.D	AD33970-002	22961	2.70	46470	5.87	173386	6.87	87178	8.30	175003	9.76	168373	12.80	182269	14.41
10M93481.D	AD33970-005	22397	2.71	46478	5.87	182274	6.87	92536	8.30	198171	9.76	182582	12.80	190648	14.41
10M93484.D	AD33982-007	22352	2.70	49495	5.87	194711	6.87	100882	8.30	215989	9.76	185822	12.80	203123	14.41
10M93485.D	OMB103397(MS)	25355	2.70	50964	5.87	196893	6.87	98309	8.30	209508	9.76	197036	12.80	207870	14.41
10M93486.D	OMB103397	28486	2.70	60522	5.87	236898	6.87	120969	8.30	253604	9.76	234867	12.80	244309	14.41
10M93488.D	SMB103408(MS)	25781	2.68	54571	5.87	209710	6.87	107234	8.30	227090	9.76	213097	12.80	221196	14.41

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101501 0136

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M116481.D Method: EPA 8270E

Analysis Date/Time: 10/25/22 08:24

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	51684	2.63	88313	5.85	351638	6.86	172822	8.29	344513	9.76	334874	12.83	300557	14.46
Eval File Area Limit:	25842-103368		44156-176626		175819-703276		86411-345644		172256-689026		167437-669748		150278-601114	
Eval File Rt Limit:	2.13-3.13		5.35-6.35		6.36-7.36		7.79-8.79		9.26-10.26		12.33-13.33		13.96-14.96	

Data File	Sample#													
9M116482.D	AD33998-015	50605	2.62	81888	5.85	323467	6.86	158773	8.29	305166	9.76	253688	12.83	238363	14.46
9M116483.D	AD33998-019	48554	2.61	79588	5.85	314207	6.86	152710	8.29	292184	9.76	255665	12.83	241419	14.46
9M116484.D	AD33998-041	45053	2.61	73679	5.85	288091	6.86	139243	8.29	271085	9.76	232053	12.83	224061	14.46
9M116485.D	AD33998-043	44386	2.62	72525	5.85	285504	6.86	140167	8.29	270724	9.76	224561	12.83	213988	14.46
9M116486.D	AD33998-047	44097	2.62	72040	5.85	281436	6.86	135031	8.29	263095	9.76	229305	12.83	209106	14.46
9M116487.D	AD33998-049	45721	2.62	74722	5.85	293418	6.86	142057	8.29	268458	9.76	224453	12.83	213862	14.46
9M116488.D	AD33998-027	47017	2.62	73846	5.85	290611	6.86	139593	8.29	269573	9.76	230372	12.83	212625	14.46
9M116489.D	AD33998-025(3X)	54355	2.63	88231	5.85	345203	6.86	167351	8.29	319324	9.76	260429	12.83	247142	14.46
9M116490.D	AD33998-031(3X)	52357	2.63	85771	5.85	338129	6.86	164142	8.29	314673	9.76	254717	12.83	237883	14.46
9M116491.D	AD33998-037(3X)	50685	2.63	83656	5.85	330572	6.86	157930	8.29	299845	9.76	247713	12.83	233875	14.46
9M116492.D	AD33998-033(3X)	54376	2.63	88234	5.85	344948	6.86	165631	8.29	322140	9.76	257410	12.82	240813	14.46
9M116493.D	AD33998-023(3X)	55394	2.63	91105	5.85	357135	6.86	171630	8.29	337088	9.76	286910	12.83	269279	14.46
9M116494.D	AD33998-039(5X)	57692	2.63	96433	5.85	376411	6.86	183544	8.29	351509	9.76	283459	12.83	265505	14.46
9M116495.D	AD33998-045(5X)	57098	2.63	94633	5.85	373675	6.86	179589	8.29	347585	9.76	282485	12.83	266559	14.46
9M116496.D	AD33998-051(5X)	57745	2.63	97381	5.85	380281	6.86	181192	8.29	350100	9.76	284581	12.83	263967	14.46
9M116497.D	AD33998-021(5X)	57531	2.63	93928	5.85	371623	6.86	177107	8.29	346136	9.76	279166	12.83	257104	14.46
9M116498.D	SMB103408	50985	2.61	81819	5.85	331456	6.86	158953	8.29	312434	9.76	261936	12.83	217755	14.46
9M116499.D	AD33998-017(5X)	58045	2.63	95419	5.85	366371	6.86	180461	8.29	354252	9.76	289631	12.83	265779	14.46
9M116500.D	AD33915-003(10X)	58429	2.63	94842	5.85	377184	6.86	183167	8.29	353733	9.76	306720	12.83	287468	14.46
9M116501.D	AD33915-004(10X)	57771	2.63	96052	5.85	373490	6.86	184604	8.29	353126	9.76	301771	12.83	285771	14.46
9M116502.D	AD33915-005(3X)	73051	2.62	121497	5.85	489427	6.86	263647	8.30	472249	9.76	413758	12.83	386364	14.46
9M116503.D	AD33915-002(5X)	60621	2.63	103652	5.85	389930	6.86	193695	8.29	384122	9.76	334917	12.83	318683	14.46
9M116504.D	AD33915-001(5X)	57606	2.63	97247	5.85	371660	6.86	187047	8.29	371339	9.76	376049	12.85	353698	14.48
9M116505.D	AD33982-003(5X)	63264	2.63	103183	5.85	399548	6.86	202624	8.29	410114	9.77	350579	12.83	312969	14.46
9M116506.D	AD33982-003(5X)(MS)	62455	2.63	105290	5.85	410718	6.86	197796	8.29	413048	9.77	358197	12.83	317095	14.46
9M116507.D	AD33982-003(5X)(MS	61309	2.63	104475	5.85	410604	6.86	194632	8.29	414702	9.77	360036	12.83	315817	14.46

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M116525.D Method: EPA 8270E

Analysis Date/Time: 10/26/22 14:42

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	48766	2.63	82049	5.85	349056	6.86	168928	8.30	337108	9.77	315060	12.83	324970	14.47
Eval File Area Limit:	24383-97532		41024-164098		174528-698112		84464-337856		168554-674216		157530-630120		162485-649940	
Eval File Rt Limit:	2.13-3.13		5.35-6.35		6.36-7.36		7.8-8.8		9.27-10.27		12.33-13.33		13.97-14.97	
Data File Sample#														
9M116526.D SMB103411	39605	2.61	62519	5.85	246465	6.86	119434	8.29	232597	9.76	202092	12.83	177511	14.46
9M116527.D SMB103408	48552	2.61	82061	5.85	320398	6.86	164469	8.29	298313	9.76	285569	12.83	253487	14.46
9M116528.D OMB103419	45307	2.63	71267	5.85	287971	6.86	140251	8.29	272140	9.76	233990	12.83	211651	14.46
9M116529.D AD34121-001	47706	2.63	81060	5.85	317431	6.86	149849	8.29	284616	9.76	257514	12.83	248734	14.46
9M116530.D AD34076-002	37494	2.62	85177	5.85	218731	6.88	136990	8.33	251171	9.77	241788	12.84	210341	14.47
9M116531.D AD34035-001	45768	2.62	74069	5.85	286800	6.86	149281	8.29	284832	9.79	293526	12.84	240503	14.47
9M116532.D AD34018-001	45386	2.62	76253	5.85	285949	6.86	147058	8.29	264460	9.76	255449	12.83	238041	14.46
9M116533.D AD34011-001	46653	2.61	77844	5.85	289693	6.86	149789	8.29	288677	9.76	256169	12.83	249248	14.47
9M116534.D AD34011-004	45412	2.62	71909	5.85	288310	6.86	187027	8.30	304229	9.77	261215	12.83	242659	14.46
9M116535.D AD34042-001	38105	2.62	65326	5.86	79975A	6.89	73742A	8.38	265911	9.79	223661	12.83	201858	14.46
9M116536.D AD34042-002	47347	2.61	92285	5.85	253507	6.87	232477	8.32	315088	9.77	283341	12.83	266153	14.46
9M116537.D AD34042-003	45112	2.62	43171	5.86	106051A	6.90	80996A	8.38	1001A	9.90	276129	12.83	265108	14.46
9M116538.D AD34010-001(MS)	52574	2.62	91506	5.85	349362	6.86	174040	8.29	348624	9.76	314676	12.83	288827	14.46
9M116539.D AD34010-001(MSD)	56686	2.62	96296	5.85	373432	6.86	183632	8.29	362484	9.76	341102	12.83	305265	14.46
9M116540.D AD33919-005(3X)	46059	2.63	80637	5.85	312123	6.86	151908	8.29	295105	9.77	265417	12.83	238623	14.46
9M116541.D AD33919-005(3X)(MS)	49586	2.63	84826	5.85	327918	6.86	162674	8.29	322624	9.77	292196	12.83	257932	14.47
9M116542.D AD33919-005(3X)(MS	50644	2.63	86031	5.85	332595	6.86	163788	8.29	323452	9.77	287160	12.83	264109	14.46
9M116543.D AD34029-010(5X)	50122	2.63	85596	5.85	318543	6.86	157832	8.29	309095	9.76	273257	12.83	271195	14.47
9M116544.D AD34029-008(3X)	45471	2.63	76633	5.85	304160	6.86	147197	8.29	288841	9.76	248812	12.83	252685	14.47
9M116545.D AD34029-006(3X)	45589	2.63	77026	5.85	305170	6.86	143064	8.29	288967	9.76	243889	12.83	248468	14.47
9M116546.D AD34029-004(3X)	46228	2.63	79164	5.85	294320	6.86	147578	8.29	292376	9.76	248125	12.83	228532	14.46
9M116547.D AD34029-002(3X)	46899	2.63	76716	5.85	309869	6.86	140304	8.29	288461	9.76	227314	12.83	249187	14.47
9M116548.D AD34098-004(3X)	48595	2.63	79948	5.85	312766	6.86	150145	8.29	287125	9.76	258790	12.83	256853	14.47
9M116549.D AD34099-004(3X)	43321	2.63	68053	5.85	271813	6.86	128363	8.29	253355	9.76	210677	12.83	204072	14.46
9M116550.D 915-005(5X)	51960	2.63	87306	5.85	333163	6.86	173836	8.30	325954	9.76	297632	12.83	259849	14.46

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101501 0138

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M116552.D Method: EPA 8270E

Analysis Date/Time: 10/27/22 08:41

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	50787	2.62	88514	5.85	350922	6.86	170996	8.29	328874	9.76	359966	12.82	362429	14.46
Eval File Area Limit:	25394-101574		44257-177028		175461-701844		85498-341992		164437-657748		179983-719932		181214-724858	
Eval File Rt Limit:	2.12-3.12		5.35-6.35		6.36-7.36		7.79-8.79		9.26-10.26		12.32-13.32		13.96-14.96	

Data File	Sample#													
9M116553.D	SMB103418(MS)	37940	2.60	62810	5.84	247206	6.85	115373	8.28	225820	9.75	227787	12.82	217972	14.45
9M116554.D	SMB103418	38391	2.60	62084	5.84	256243	6.85	124765	8.28	252470	9.75	208968	12.81	217357	14.44
9M116555.D	AD34055-006(5X)	46316	2.61	76570	5.84	313057	6.85	156503	8.28	305408	9.75	269553	12.82	229899	14.45
9M116556.D	AD34055-002(10X)	48673	2.61	79558	5.84	321969	6.85	151203	8.28	282926	9.75	273687	12.82	277720	14.45
9M116557.D	AD34062-001(3X)	45344	2.61	75037	5.84	293735	6.85	149941	8.28	291218	9.75	230450	12.82	249948	14.45
9M116558.D	AD34011-004(10X)	48627	2.62	79503	5.84	315222	6.85	147917	8.28	312807	9.75	271492	12.81	263330	14.44
9M116559.D	AD34042-001(10X)	49529	2.61	96423	5.85	331957	6.86	193692	8.29	313642	9.75	290132	12.81	278426	14.45
9M116560.D	AD34042-002(10X)	48315	2.61	80585	5.84	313826	6.85	154783	8.29	288163	9.75	234261	12.81	232237	14.44
9M116561.D	AD34042-003(10X)	49066	2.61	95108	5.85	348405	6.86	190967	8.29	309010	9.75	289248	12.82	278667	14.44
9M116562.D	AD34075-002(5X)	46293	2.62	80753	5.85	318840	6.85	230253	8.30	347670	9.77	281983	12.82	273842	14.45
9M116563.D	AD33915-005(5X)(R)	48750	2.61	88403	5.85	346881	6.86	175387	8.29	329924	9.75	284662	12.82	244213	14.44
9M116564.D	AD34042-001(30X)	49634	2.62	89240	5.85	337324	6.85	168209	8.29	325721	9.75	276578	12.81	265693	14.45
9M116565.D	AD34042-003(30X)	48944	2.61	90396	5.85	339806	6.85	170550	8.29	332236	9.75	280756	12.81	269652	14.44
9M116566.D	AD34055-004	43560	2.61	75592	5.84	297663	6.85	148694	8.28	282545	9.75	232585	12.82	247283	14.46
9M116567.D	AD34053-003	44578	2.60	78247	5.84	306852	6.85	148754	8.28	284367	9.75	225042	12.81	235034	14.45
9M116568.D	AD34079-001	31038	2.61	54326	5.84	215859	6.85	126400	8.29	87539A	9.80	237959	12.86	198528	14.46
9M116569.D	AD34086-002(MS)	40403	2.60	73003	5.84	280767	6.85	139561	8.28	273281	9.75	234009	12.82	224904	14.44
9M116570.D	AD34086-002(MSD)	42525	2.60	74169	5.84	285888	6.85	142132	8.28	279630	9.75	223022	12.82	211251	14.44
9M116571.D	AD34086-002	44072	2.60	76432	5.84	304537	6.85	152494	8.28	294151	9.75	240434	12.82	234976	14.45
9M116572.D	AD34086-004	41428	2.60	74964	5.84	290058	6.85	142197	8.28	277884	9.75	225600	12.81	223314	14.44
9M116573.D	AD34086-006	44494	2.60	80878	5.84	314746	6.85	154582	8.28	295669	9.75	234987	12.82	243159	14.44
9M116574.D	AD34088-002	43282	2.60	77202	5.84	300073	6.85	147648	8.28	285435	9.75	202132	12.81	201031	14.45
9M116575.D	AD34088-004	40667	2.60	71830	5.84	284173	6.85	136430	8.28	265613	9.75	201830	12.81	185758	14.44
9M116576.D	AD34088-006	43258	2.59	78489	5.84	307879	6.85	148229	8.28	289076	9.75	214532	12.81	204215	14.44
9M116577.D	AD34087-002	37872	2.60	62272	5.84	266689	6.85	127021	8.28	244943	9.75	183832	12.81	176037A	14.45
9M116578.D	AD34087-004	45090	2.61	73322	5.84	294995	6.85	144799	8.28	287547	9.75	226430	12.81	229263	14.44
9M116579.D	AD34087-006	39307	2.60	63090	5.84	267025	6.85	130541	8.28	247519	9.75	175765A	12.81	170982A	14.44
9M116580.D	AD34076-001(10X)	47677	2.61	81101	5.84	308092	6.85	159226	8.28	313053	9.75	245232	12.82	243455	14.44

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101501 0139

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M124775.D Method: EPA 8270E

Analysis Date/Time: 10/28/22 08:57

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	80793	2.56	148658	5.78	562322	6.78	298392	8.21	628657	9.68	555499	12.75	574660	14.40
Eval File Area Limit:	40396-161586		74329-297316		281161-1124644		149196-596784		314328-1257314		277750-1110998		287330-1149320	
Eval File Rt Limit:	2.06-3.06		5.28-6.28		6.28-7.28		7.71-8.71		9.18-10.18		12.25-13.25		13.9-14.9	

Data File	Sample#														
7M124776.D	SMB103438(MS)	57011	2.55	97009	5.77	359310	6.78	188006	8.21	389133	9.68	342808	12.75	343612	14.39
7M124777.D	SMB103417(MS)	72185	2.55	121641	5.78	450484	6.78	233240	8.21	484989	9.68	425061	12.75	426805	14.39
7M124778.D	103444	59868	2.56	102065	5.78	375489	6.78	196782	8.20	408709	9.67	361642	12.75	363367	14.39
7M124779.D	OMB103444	63803	2.55	114265	5.77	433341	6.78	227140	8.20	485356	9.67	400618	12.75	399387	14.39
7M124780.D	AD34132-001(5X)	71200	2.56	129041	5.77	481000	6.78	215421	8.20	423568	9.68	399239	12.75	438214	14.40
7M124781.D	AD34132-001(5X)(MS)	66784	2.56	130005	5.77	469035	6.78	213301	8.21	398316	9.68	361408	12.75	401230	14.40
7M124782.D	AD34132-001(5X)(MS	60592	2.56	117870	5.77	473341	6.78	214648	8.21	375282	9.68	387337	12.75	437523	14.40
7M124783.D	SMB103438	59779	2.55	108928	5.77	413296	6.78	216960	8.21	450853	9.68	365634	12.75	362906	14.40
7M124784.D	SMB103417	60109	2.55	111216	5.78	421863	6.78	222655	8.21	473399	9.68	392328	12.75	380700	14.40
7M124785.D	AD34111-001	58237	2.55	115674	5.77	441683	6.78	228059	8.20	470810	9.67	378870	12.75	369782	14.39
7M124786.D	AD34111-001(MS)	58389	2.55	103193	5.77	379276	6.78	201103	8.20	396578	9.67	361528	12.75	353835	14.40
7M124787.D	AD34111-001(MSD)	60748	2.55	112477	5.77	409912	6.78	212699	8.20	431870	9.67	364018	12.75	366830	14.40
7M124788.D	OMB103444(MS)	61984	2.56	116356	5.78	430445	6.78	226310	8.20	462147	9.68	403569	12.75	404324	14.39

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101501 0140

FORM8

Internal Standard Areas

Evaluation Std Data File: 9M116583.D Method: EPA 8270E

Analysis Date/Time: 10/28/22 10:10

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	36426	2.63	82650	5.85	324132	6.85	171077	8.29	347747	9.75	362287	12.82	358457	14.45
Eval File Area Limit:	18213-72852		41325-165300		162066-648264		85538-342154		173874-695494		181144-724574		179228-716914	
Eval File Rt Limit:	2.13-3.13		5.35-6.35		6.35-7.35		7.79-8.79		9.25-10.25		12.32-13.32		13.95-14.95	
Data File	Sample#													
9M116584.D	SMB103438	27374	2.61	54937	5.85	210254	6.85	111489	8.28	229371	9.75	200717	12.82	203662	14.45
9M116585.D	SMB103417	29371	2.60	58967	5.85	229634	6.85	120747	8.28	252398	9.75	230298	12.82	235063	14.45
9M116586.D	AD34118-001(5X)	30805	2.63	62405	5.85	238040	6.85	127932	8.28	256816	9.75	233575	12.82	232641	14.46
9M116587.D	AD34101-001(5X)	35903	2.63	72245	5.85	275369	6.85	142974	8.28	285277	9.76	257892	12.83	267794	14.46
9M116588.D	AD34096-001	31791	2.61	65131	5.85	246890	6.85	130170	8.28	256729	9.75	218518	12.82	219254	14.45
9M116589.D	AD34079-001(3X)	30739	2.63	62844	5.85	238483	6.85	134093	8.29	251050	9.78	287925	12.84	253923	14.46
9M116590.D	AD34087-002	31345	2.64	60650	5.85	231665	6.85	121203	8.28	242736	9.75	233445	12.82	231311	14.45
9M116591.D	AD34087-006	30892	2.63	61360	5.85	238162	6.85	123259	8.28	252818	9.75	199013	12.82	225651	14.45
9M116592.D	AD34096-007	32967	2.62	66045	5.85	245486	6.85	131126	8.28	290975	9.75	215903	12.82	241622	14.45
9M116593.D	AD34096-023	29483	2.62	61496	5.85	232309	6.85	125226	8.28	246914	9.75	223358	12.82	224608	14.45
9M116595.D	AD34096-013(5X)	33744	2.64	68776	5.85	263449	6.85	139829	8.28	309515	9.75	220258	12.82	247656	14.45
9M116596.D	AD34096-009(10X)	34229	2.65	69816	5.85	265542	6.85	137658	8.28	268974	9.76	271053	12.83	252918	14.46
9M116597.D	AD34101-001(25X)	33913	2.65	67957	5.85	264454	6.85	137797	8.28	269034	9.75	223600	12.82	242243	14.45
9M116598.D	AD34101-001(25X)(M	34619	2.64	71259	5.85	268717	6.85	138064	8.28	276187	9.75	228725	12.82	225383	14.45
9M116599.D	AD34101-001(25X)(M	34582	2.65	72088	5.85	272374	6.85	143649	8.28	288704	9.75	237766	12.82	228339	14.45
9M116600.D	AD34096-021	26717	2.62	54535	5.85	210708	6.85	112966	8.28	225519	9.75	183868	12.82	187034	14.45
9M116601.D	AD34096-005	27519	2.63	56837	5.85	215157	6.85	113646	8.28	223818	9.75	183253	12.82	189204	14.45
9M116602.D	AD34096-003(3X)	29432	2.63	60966	5.85	229520	6.85	120640	8.28	240684	9.75	199329	12.82	199344	14.45
9M116603.D	AD34096-011(3X)	29492	2.63	60663	5.85	234839	6.85	121812	8.28	239560	9.75	197946	12.82	194757	14.45
9M116604.D	AD34096-015(3X)	31334	2.65	64653	5.85	244746	6.85	126151	8.28	251288	9.75	200069	12.82	206456	14.45
9M116605.D	AD34096-017(3X)	32464	2.64	64510	5.85	248429	6.85	129429	8.28	251827	9.75	203897	12.82	205783	14.45
9M116606.D	AD34096-019(5X)	35369	2.64	70428	5.85	268859	6.85	142601	8.28	274830	9.75	217476	12.82	222321	14.45
9M116607.D	AD34096-009(100X)	34709	2.65	71025	5.85	267824	6.85	141026	8.28	279365	9.75	224953	12.82	222714	14.45

I1 = 1,4-Dioxane-d8(INT)
I2 = 1,4-Dichlorobenzene-d4
I3 = Naphthalene-d8
I4 = Acenaphthene-d10
I5 = Phenanthrene-d10
I6 = Chrysene-d12
I7 = Perylene-d12

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-001(10X)
Client Id: SB-61SS (10')
Data File: 7G57512.D
Analysis Date: 10/27/22 10:36
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 10
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**660**	**12000**				

Worksheet #: 662805

Total Target Concentration 12000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57512.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 10:36
Operator : ABM/AH/JR/RR
Sample : AD33915-001(10X)
Misc : S,TPH:10
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:45:16 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	10.435f	71856293	3996.418		m
25)t	Total Petroleum Hydroca	10.435f	96620878	5526.701		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

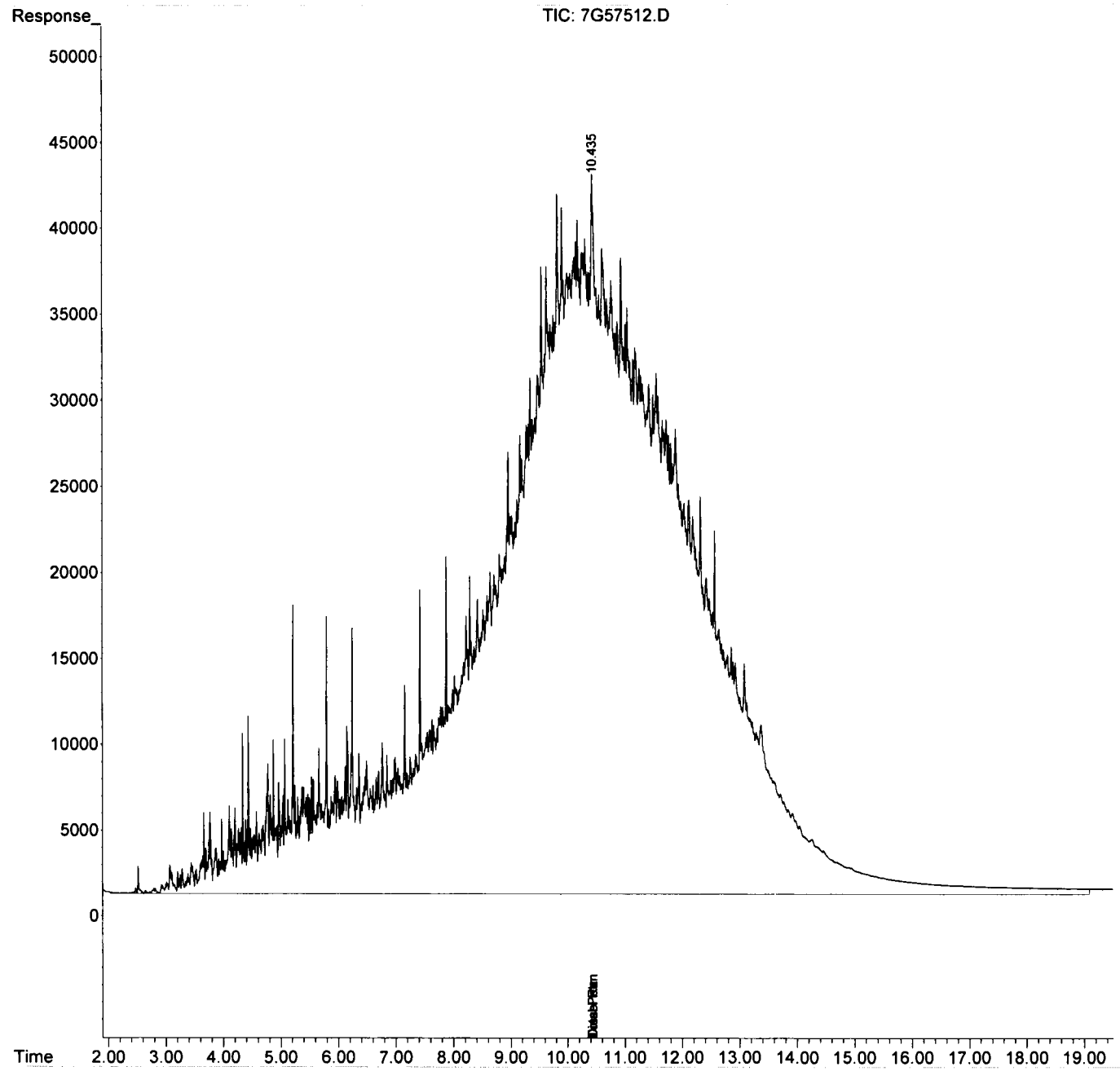
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57512.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 10:36
Operator : ABM/AH/JR/RR
Sample : AD33915-001(10X)
Misc : S,TPH:10
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:45:16 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-002
Client Id: SB-61SS (2')
Data File: 7G57495.D
Analysis Date: 10/26/22 18:55
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**67**	**2000**				

Worksheet #: 662805

Total Target Concentration 2000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57495.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 18:55
Operator : ABM/AH/JR/RR
Sample : AD33915-002
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:01:01 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.525	135454	11.761		
23)	O-Terphenyl	8.295	349228	16.173		m
24)d	Diesel Range Organics(T	4.180	110343004	6136.926		m
25)t	Total Petroleum Hydroca	4.180	159492725	9122.962		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

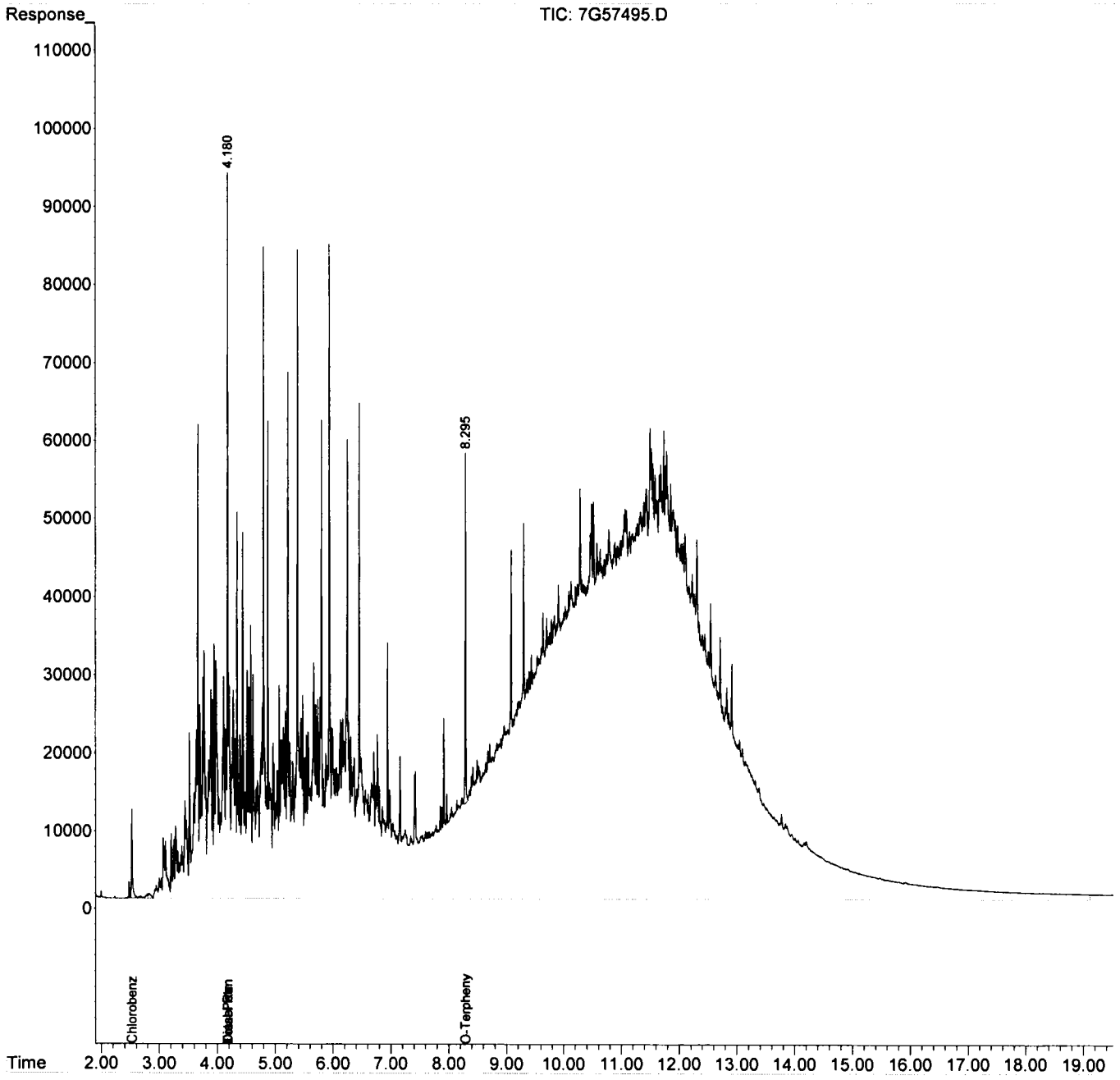
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57495.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 18:55
Operator : ABM/AH/JR/RR
Sample : AD33915-002
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:01:01 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-003
Client Id: SB-65SS (10')
Data File: 7G57496.D
Analysis Date: 10/26/22 19:24
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**70**	**1300**				

Worksheet #: 662805

Total Target Concentration 1300

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57496.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 19:24
Operator : ABM/AH/JR/RR
Sample : AD33915-003
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:02:36 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.523	163592	14.204		
23)	O-Terphenyl	8.295	351605	16.283		
24)d	Diesel Range Organics(T	7.925f	60341624	3356.009		m
25)t	Total Petroleum Hydroca	7.925f	102154506	5843.223		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

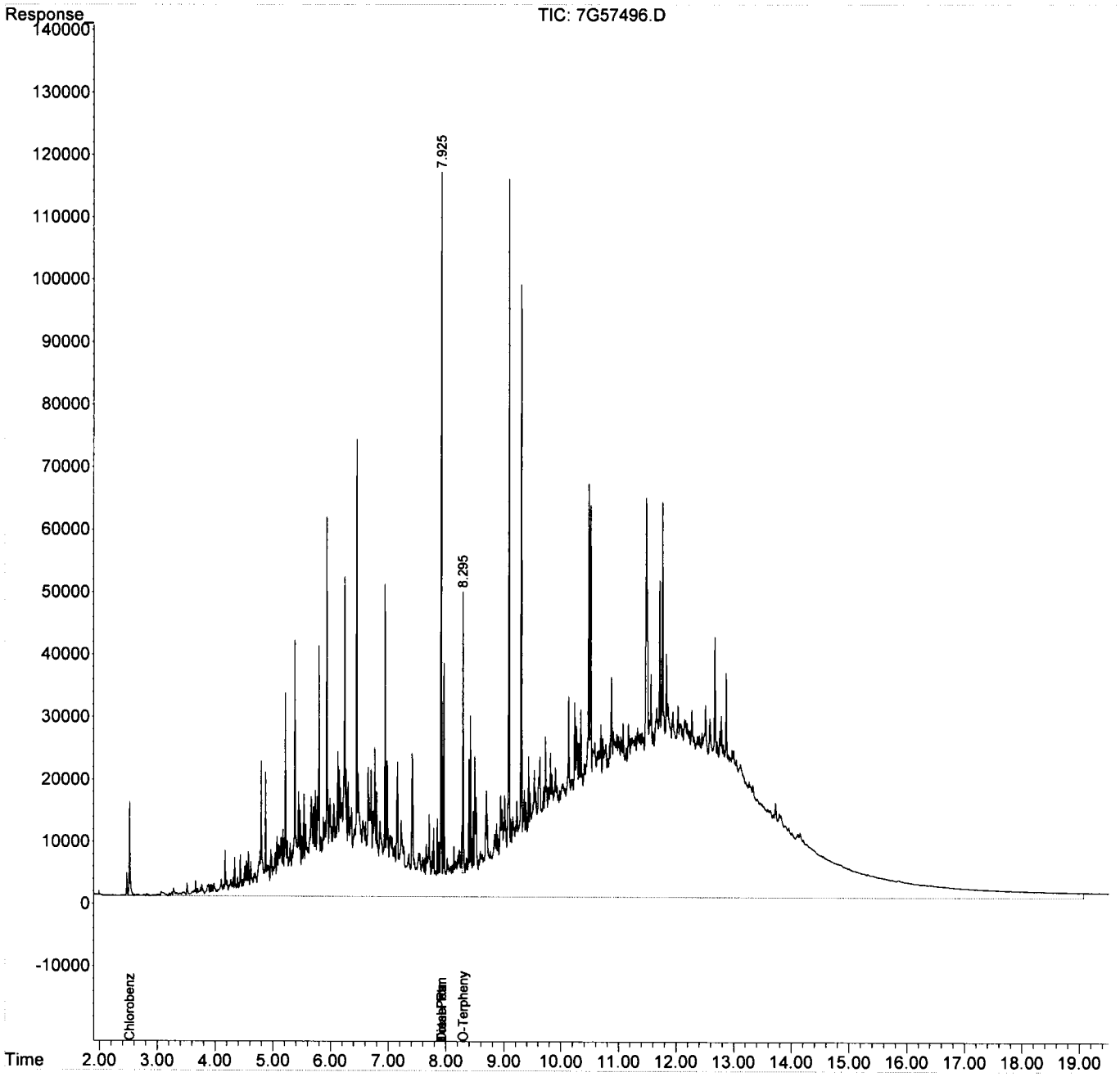
KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57496.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 19:24
Operator : ABM/AH/JR/RR
Sample : AD33915-003
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:02:36 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-004
Client Id: SB-66SS (10')
Data File: 7G57497.D
Analysis Date: 10/26/22 19:54
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**67**	**610**				

Worksheet #: 662805

Total Target Concentration 610

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57497.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 19:54
Operator : ABM/AH/JR/RR
Sample : AD33915-004
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:04:29 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.523	102182	8.872		
23)	O-Terphenyl	8.294	341926	15.835		m
24)d	Diesel Range Organics(T	9.093f	26146124	1454.164		m
25)t	Total Petroleum Hydroca	9.093f	48234220	2758.991		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

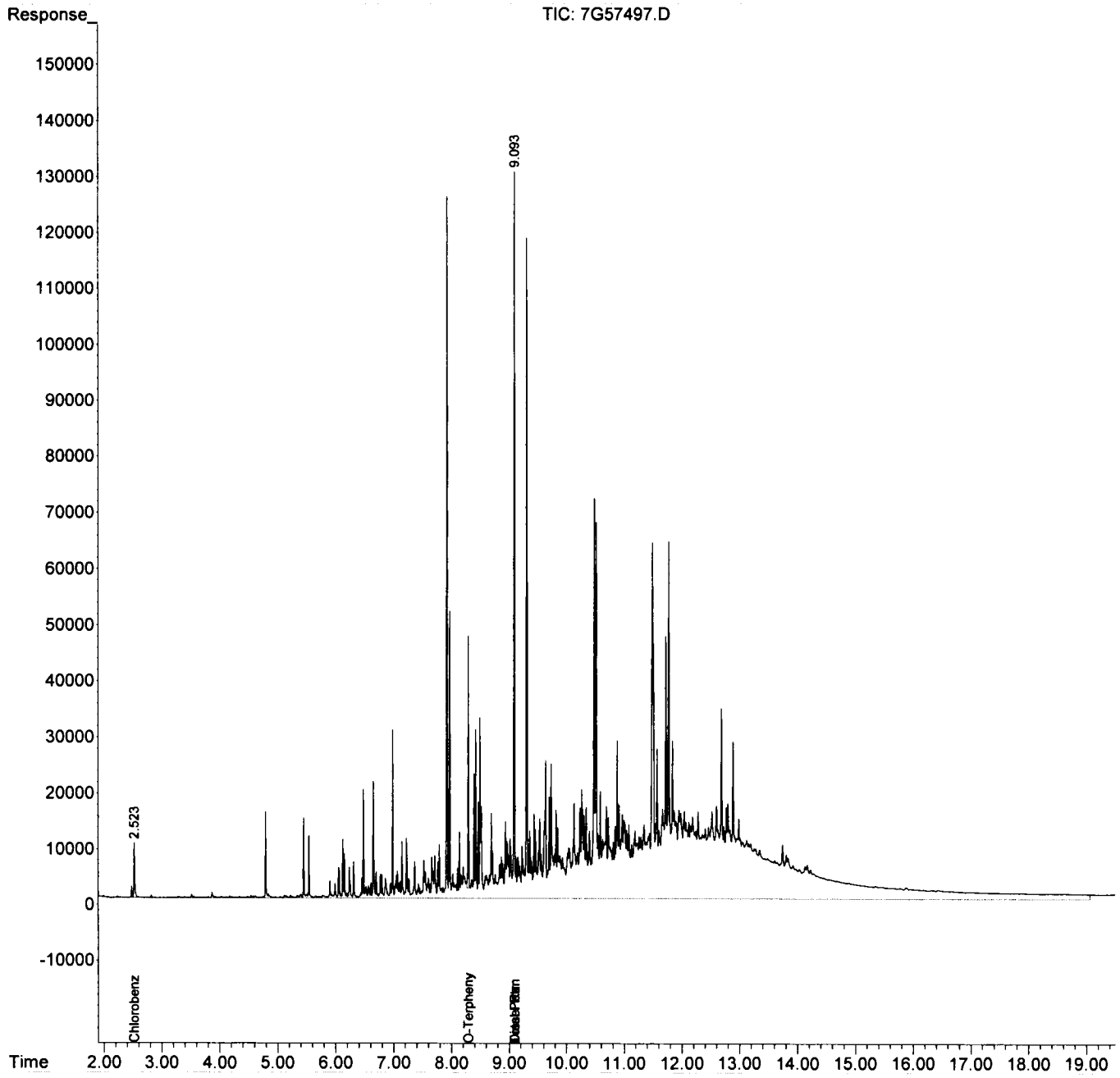
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57497.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 19:54
Operator : ABM/AH/JR/RR
Sample : AD33915-004
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:04:29 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-005(10X)
Client Id: SB-67SS (4')
Data File: 7G57513.D
Analysis Date: 10/27/22 11:06
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 10
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**710**	**7300**				

Worksheet #: 662805

Total Target Concentration 7300

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57513.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 11:06
Operator : ABM/AH/JR/RR
Sample : AD33915-005(10X)
Misc : S,TPH:10
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:47:15 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	5.391f	52292574	2908.346		m
25)t	Total Petroleum Hydroca	5.391	55312304	3163.856		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

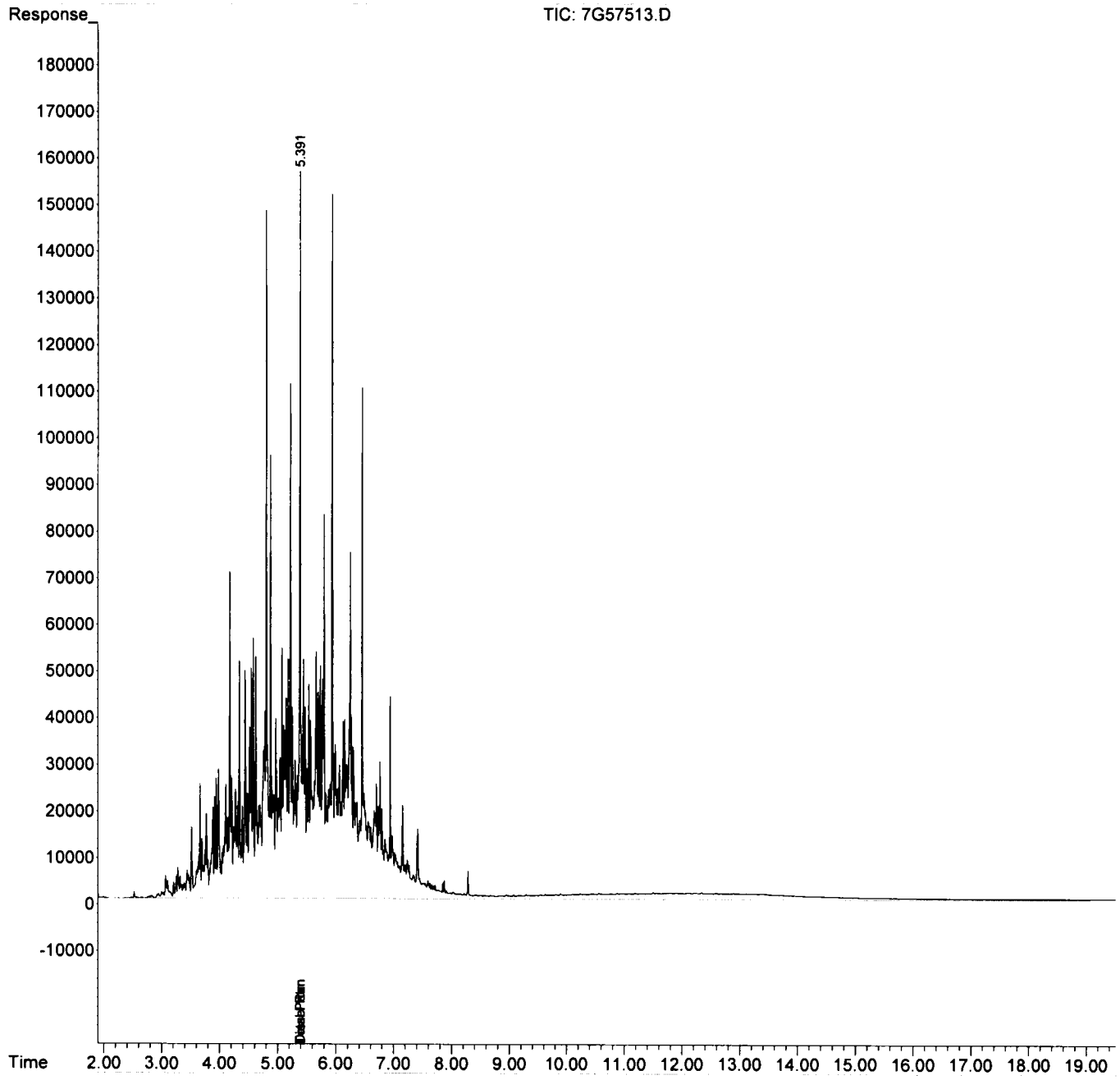
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57513.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 11:06
Operator : ABM/AH/JR/RR
Sample : AD33915-005(10X)
Misc : S,TPH:10
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:47:15 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-006
Client Id: SB-19SS (4-6)
Data File: 7G57499.D
Analysis Date: 10/26/22 20:52
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**71**	**160**				

Worksheet #: 662805 *Total Target Concentration* 160 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57499.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 20:52
Operator : ABM/AH/JR/RR
Sample : AD33915-006
Misc : S,TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:08:31 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.524	182113	15.812		
23)	O-Terphenyl	8.294	411729	19.068		
24)d	Diesel Range Organics(T	8.294f	7334261	407.908		m
25)t	Total Petroleum Hydroca	8.294f	13445004	769.052		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

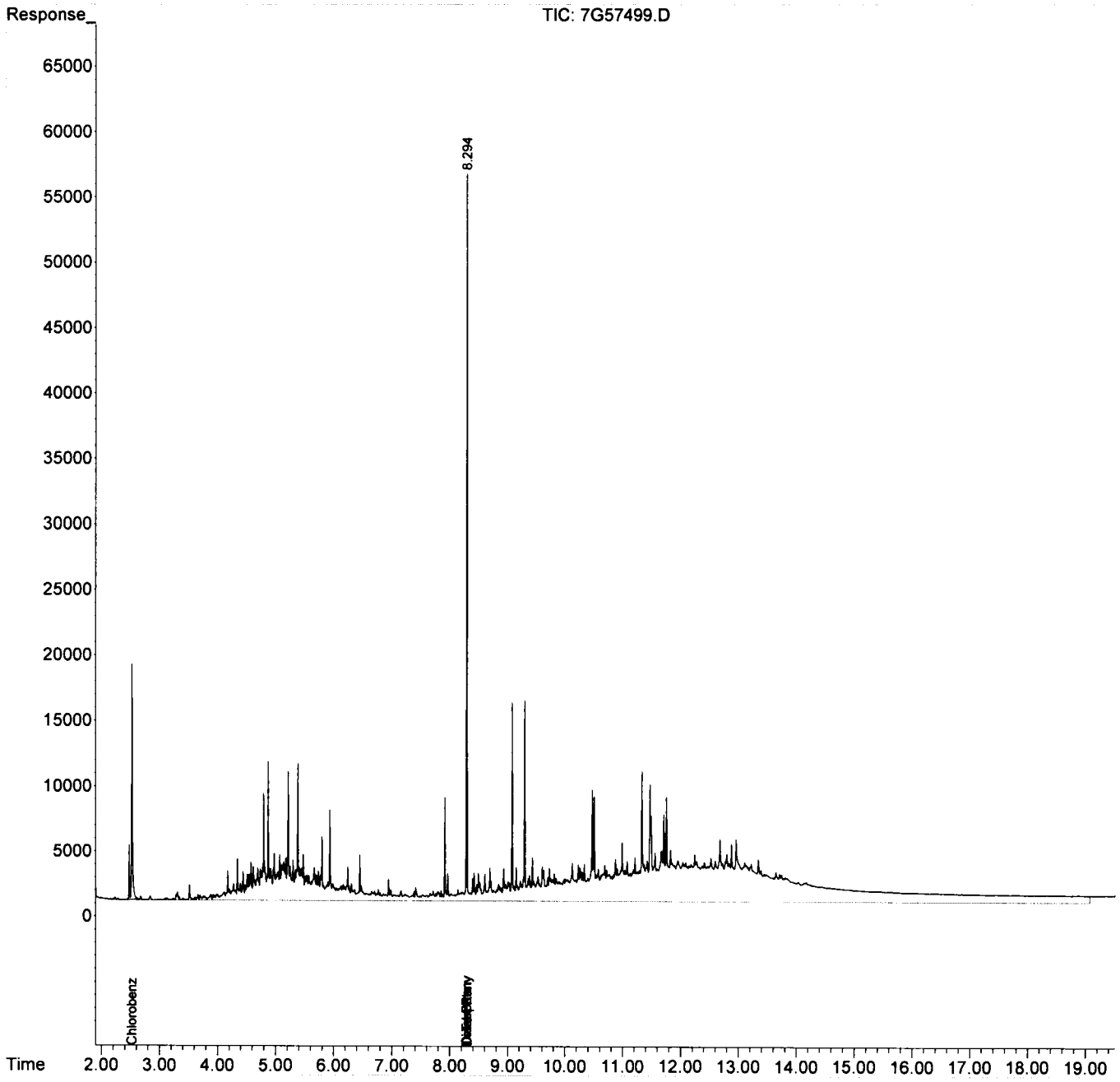
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57499.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 20:52
Operator : ABM/AH/JR/RR
Sample : AD33915-006
Misc : S,TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:08:31 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103420
Client Id:
Data File: 7G57509.D
Analysis Date: 10/27/22 09:08
Date Rec/Extracted: NA-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 662805

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57509.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 9:08
Operator : ABM/AH/JR/RR
Sample : SMB103420
Misc : S,TPH
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:39:37 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.531	129323	11.229		
23)	O-Terphenyl	8.300	367991	17.042		
24)d	Diesel Range Organics(T	8.300f	1116013	62.069		m
25)t	Total Petroleum Hydroca	8.300f	2403726	137.493		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

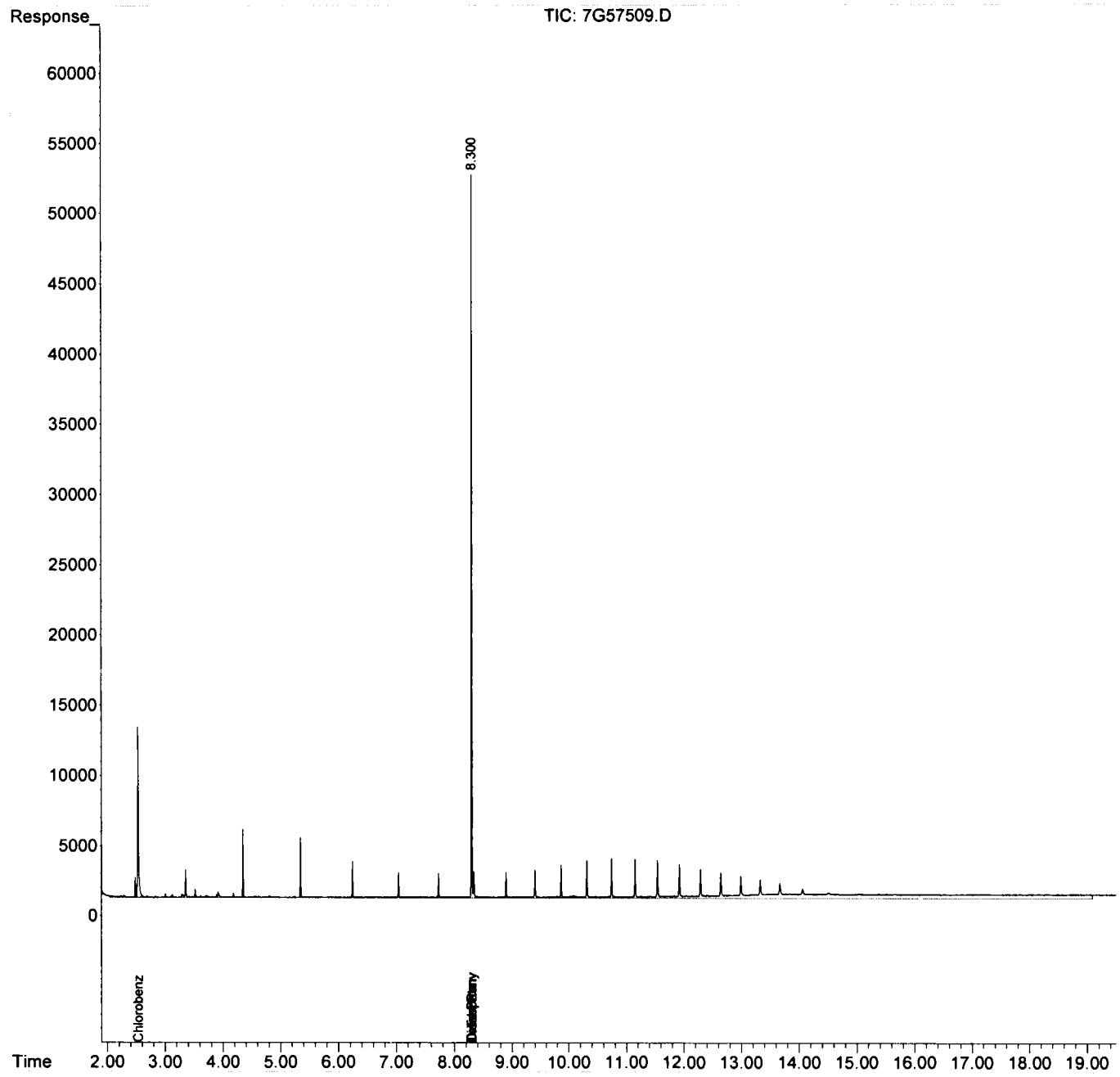
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57509.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 9:08
Operator : ABM/AH/JR/RR
Sample : SMB103420
Misc : S,TPH
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:39:37 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57489.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 15:36
Operator : ABM/AH/JR/RR
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 26 16:04:48 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.343f	121020	6.731		m
25)t	Total Petroleum Hydroca	14.551f	731627	41.849		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

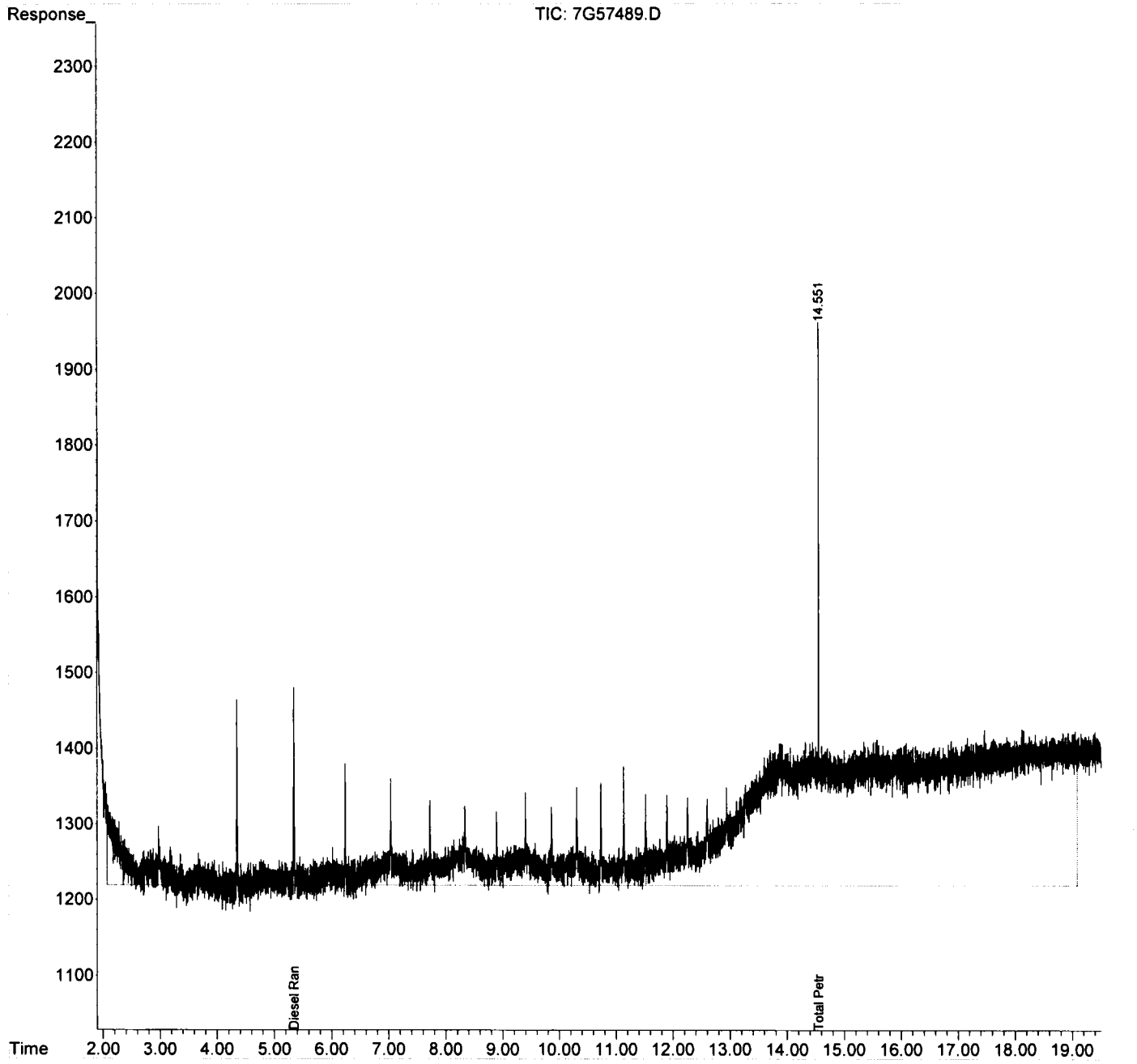
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57489.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 15:36
Operator : ABM/AH/JR/RR
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 26 16:04:48 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57508.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 3:12
Operator : ABM/AH/JR/RR
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:37:31 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)mt	C8	0.000	0	N.D.	d
2)mte	C9	0.000	0	N.D.	d
3)mdte	C10	0.000	0	N.D.	d
4)mdte	C12	0.000	0	N.D.	d
5)mdte	C14	0.000	0	N.D.	d
6)dte	C16	0.000	0	N.D.	d
7)dte	C17	0.000	0	N.D.	d
8)dte	Pristane	0.000	0	N.D.	d
9)dte	C18	0.000	0	N.D.	d
10)dte	Phytane	0.000	0	N.D.	d
11)dte	C20	0.000	0	N.D.	d
12)dte	C22	0.000	0	N.D.	d
13)dte	C24	0.000	0	N.D.	d
14)dte	C26	0.000	0	N.D.	d
15)dte	C28	0.000	0	N.D.	d
16)te	C30	0.000	0	N.D.	d
17)te	C32	0.000	0	N.D.	d
18)te	C34	0.000	0	N.D.	d
19)te	C36	0.000	0	N.D.	d
20)t	C40	0.000	0	N.D.	d
21)t	C44	0.000	0	N.D.	d
22)	Chlorobenzene	0.000	0	N.D.	d
23)	O-Terphenyl	0.000	0	N.D.	d
24)d	Diesel Range Organics(T	5.335f	209791	11.668	m
25)t	Total Petroleum Hydroca	13.054f	1552187	88.785	m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.	d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.	d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.	d

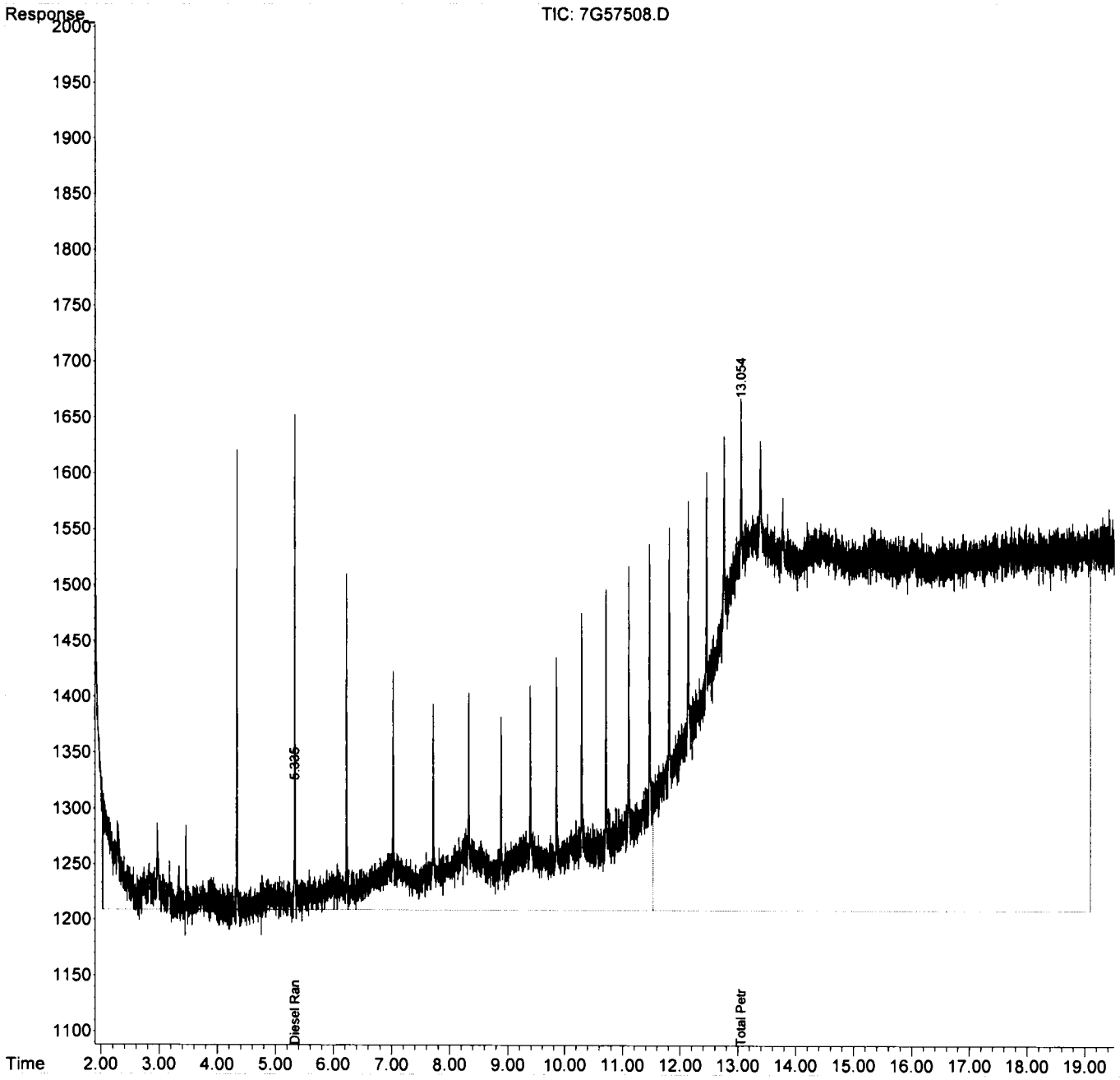
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57508.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 3:12
Operator : ABM/AH/JR/RR
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:37:31 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G57509.D	SMB103420	S	10/27/22 09:08	1		56	85				
7G57512.D	AD33915-001(10X)	S	10/27/22 10:36	10	SD	0*	0*				
7G57495.D	AD33915-002	S	10/26/22 18:55	1		59	81				
7G57496.D	AD33915-003	S	10/26/22 19:24	1		71	81				
7G57497.D	AD33915-004	S	10/26/22 19:54	1		44	79				
7G57513.D	AD33915-005(10X)	S	10/27/22 11:06	10	SD	0*	0*				
7G57499.D	AD33915-006	S	10/26/22 20:52	1		79	95				
7G57490.D	SMB103420(MS)	S	10/26/22 16:29	1		61	81				
7G57493.D	AD33995-001(MS)	S	10/26/22 17:57	1		57	80				
7G57494.D	AD33995-001(MSD)	S	10/26/22 18:26	1		12*	54				
7G57514.D	AD33995-001(3X)	S	10/27/22 11:35	3		30	69				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103420

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57490.D	SMB103420(MS)	10/26/2022 4:29:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2260.4	0	3000	75	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103420

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57493.D	AD33995-001(MS)	10/26/2022 5:57:00 PM
Non Spike(If applicable):	7G57514.D	AD33995-001(3X)	10/27/2022 11:35:00 A
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	5926.77	7408.141	3000	-49*	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57494.D	AD33995-001(MSD)	10/26/2022 6:26:00 PM
Non Spike(If applicable):	7G57514.D	AD33995-001(3X)	10/27/2022 11:35:00 A
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3923.67	7408.141	3000	-120*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103420

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57494.D	AD33995-001(MSD)	10/26/2022 6:26:00 PM
Duplicate(If applicable):	7G57493.D	AD33995-001(MS)	10/26/2022 5:57:00 PM
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	3923.67	5926.77	41*	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103420
Blank Data File: 7G57509.D
Matrix: Soil

Blank Analysis Date: 10/27/22 09:08
Blank Extraction Date: 10/26/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33915-001(10X)	7G57512.D	10/27/22 10:36
AD33915-002	7G57495.D	10/26/22 18:55
AD33915-003	7G57496.D	10/26/22 19:24
AD33915-004	7G57497.D	10/26/22 19:54
AD33915-005(10X)	7G57513.D	10/27/22 11:06
AD33915-006	7G57499.D	10/26/22 20:52
AD33995-001(3X)	7G57514.D	10/27/22 11:35
AD33995-001(MSD	7G57494.D	10/26/22 18:26
AD33995-001(MS)	7G57493.D	10/26/22 17:57
SMB103420(MS)	7G57490.D	10/26/22 16:29

Form 5

Method: EPA 8015D

Instrument: GC_7

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G57362.D	TEST	09/30/22 12:59	Soil					
7G57363.D	CAL TPH@20PPM	09/30/22 13:30	Soil	7G57364.	8.3360	0.0636		
7G57364.D	CAL TPH@5PPM	09/30/22 14:00	Soil	7G57364.	8.3307	0		
7G57365.D	CAL TPH@10PPM	09/30/22 14:29	Soil	7G57364.	8.3305	0.0024		
7G57366.D	CAL TPH@40PPM	09/30/22 14:58	Soil	7G57364.	8.3371	0.0768		
7G57367.D	CAL TPH@100PPM	09/30/22 15:28	Soil	7G57364.	8.3495	0.2254		
7G57368.D	CAL TPH@500PPM	09/30/22 15:57	Soil	7G57364.	8.3866	0.6688		
7G57369.D	TPH@20PPM	09/30/22 16:26	Soil	7G57364.	8.3323	0.0192		
7G57370.D	ICVTPH@20PPM	09/30/22 16:56	Soil	7G57364.	8.3310	0.0036		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G57486.D	INST BLK	10/26/22 11:44	Soil					
7G57487.D	TPH@20PPM	10/26/22 12:13	Soil					
7G57488.D	CALTPH@20PPM	10/26/22 15:01	Soil	7G57488.	8.3026	0		
7G57489.D	INST BLK	10/26/22 15:36	Soil	7G57488.	0.0000	200		
7G57490.D	SMB103420(MS)	10/26/22 16:29	Soil	7G57488.	8.3015	0.0132		
7G57491.D	SMB103421(MS)	10/26/22 16:58	Soil	7G57488.	8.2958	0.0819		
7G57492.D	AD33915-001	10/26/22 17:28	Soil	7G57488.	8.3166	0.1685		
7G57493.D	AD33995-001(MS)	10/26/22 17:57	Soil	7G57488.	8.2958	0.0819		
7G57494.D	AD33995-001(MSD)	10/26/22 18:26	Soil	7G57488.	8.2936	0.1085		
7G57495.D	AD33915-002	10/26/22 18:55	Soil	7G57488.	8.2947	0.0952		
7G57496.D	AD33915-003	10/26/22 19:24	Soil	7G57488.	8.2949	0.0928		
7G57497.D	AD33915-004	10/26/22 19:54	Soil	7G57488.	8.2939	0.1048		
7G57498.D	AD33915-005	10/26/22 20:23	Soil	7G57488.	8.2962	0.0771		
7G57499.D	AD33915-006	10/26/22 20:52	Soil	7G57488.	8.2939	0.1048		
7G57500.D	AD33995-001	10/26/22 21:21	Soil	7G57488.	8.2935	0.1097		
7G57501.D	AD34112-001	10/26/22 21:50	Soil	7G57488.	8.2956	0.0843		
7G57502.D	AD34112-001(MS)	10/26/22 22:19	Soil	7G57488.	8.2970	0.0675		
7G57503.D	AD34112-001(MSD)	10/26/22 22:48	Soil	7G57488.	8.2985	0.0494		
7G57504.D	AD34055-002	10/26/22 23:17	Soil	7G57488.	8.2949	0.0928		
7G57505.D	AD34055-004	10/26/22 23:47	Soil	7G57488.	8.2931	0.1145		
7G57506.D	TPH@20PPM	10/27/22 01:15	Soil	7G57488.	8.2918	0.1302		
7G57507.D	CALTPH@20PPM	10/27/22 01:44	Soil	7G57488.	8.2913	0.1362		
7G57508.D	INST BLK	10/27/22 03:12	Soil	7G57507.	0.0000	200		
7G57509.D	SMB103420	10/27/22 09:08	Soil	7G57507.	8.3001	0.1061		
7G57510.D	SMB103421	10/27/22 09:38	Soil	7G57507.	8.2915	0.0024		
7G57511.D	AD34055-006	10/27/22 10:07	Soil	7G57507.	8.2907	0.0072		
7G57512.D	AD33915-001(10X)	10/27/22 10:36	Soil	7G57507.	0.0000	200		
7G57513.D	AD33915-005(10X)	10/27/22 11:06	Soil	7G57507.	0.0000	200		
7G57514.D	AD33995-001(3X)	10/27/22 11:35	Soil	7G57507.	8.2859	0.0651		
7G57515.D	AD34112-001(2X)(MS)	10/27/22 12:05	Soil	7G57507.	8.2884	0.035		
7G57516.D	AD34112-001(2X)(MSD)	10/27/22 12:35	Soil	7G57507.	8.2906	0.0084		
7G57517.D	TPH@20PPM	10/27/22 13:03	Soil	7G57507.	8.2904	0.0109		
7G57518.D	CALTPH@20PPM	10/27/22 13:33	Soil	7G57507.	8.2894	0.0229		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101501 0174

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G57364.D	CAL TPH@5PPM	09/30/22 14:00	2	7G57365.D	CAL TPH@10PPM	09/30/22 14:29
3	7G57363.D	CAL TPH@20PPM	09/30/22 13:30	4	7G57366.D	CAL TPH@40PPM	09/30/22 14:58
5	7G57367.D	CAL TPH@100PPM	09/30/22 15:28	6	7G57368.D	CAL TPH@500PPM	09/30/22 15:57

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	1.1259	1.0968	1.1561	1.1401	1.1806	1.3210	----	----	1.17	2.20	1.00	1.00	6.8	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	1.2671	1.2303	1.2875	1.2687	1.3115	1.4564	----	----	1.30	2.86	1.00	1.00	6.1	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	1.3811	1.3480	1.4201	1.4021	1.4619	1.5971	----	----	1.44	3.55	0.999	1.00	6.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	1.4391	1.4555	1.5205	1.5130	1.5724	1.6874	----	----	1.53	4.84	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	1.4933	1.4890	1.5405	1.5345	1.5844	1.6705	----	----	1.55	5.97	1.00	1.00	4.4	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	1.7170	1.7211	1.7588	1.7765	1.8350	1.9151	----	----	1.79	6.99	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	1.6831	1.7020	1.7497	1.7940	2.0573	----	----	----	1.80	7.45	0.998	1.00	8.4	5.00	10.00	20.00	40.00	100.0			
Pristane	1	0	Avg	2.2057	2.2437	2.3440	2.2869	2.0698	1.4398	----	----	2.10	7.47	0.993	1.00	16	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	1.7286	1.7461	1.7985	1.8073	1.8902	2.2547	----	----	1.87	7.90	0.999	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	1.5782	1.6312	1.6558	1.7072	1.7338	1.4892	----	----	1.63	7.93	0.999	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	1.8227	1.8440	1.8965	1.9281	2.0112	2.1147	----	----	1.94	8.72	1.00	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	1.7345	1.7620	1.8116	1.8305	1.9051	2.0157	----	----	1.84	9.47	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	1.7933	1.8178	1.8720	1.8902	1.9555	2.0634	----	----	1.90	10.17	1.00	1.00	5.2	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	1.7681	1.7874	1.8460	1.8596	1.9120	2.0270	----	----	1.87	10.83	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	1.8373	1.8462	1.9030	1.9250	1.9705	2.0769	----	----	1.93	11.47	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	1.9175	1.9241	1.9835	2.0097	2.0483	2.1286	----	----	2.00	12.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	1.9109	1.9016	1.9597	1.9864	2.0033	2.0286	----	----	1.97	12.69	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	1.9547	1.9529	2.0138	2.0442	2.0679	2.0208	----	----	2.01	13.28	1.00	1.00	2.3	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	1.8980	1.9147	1.9751	1.9956	1.9879	1.8383	----	----	1.93	13.91	0.999	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	1.7903	1.8501	1.8967	1.8872	1.7994	----	----	----	1.84	15.75	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0			
C44	1	0	Avg	1.6345	1.7031	1.7265	1.6662	1.1190	----	----	----	1.57	19.03	0.959	1.00	16	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	1.1218	1.0981	1.1474	1.1291	1.1636	1.2501	----	----	1.15	2.53	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	2.1046	2.1021	2.1482	2.1329	2.1819	2.2857	----	----	2.16	8.34	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	1.7063	1.7226	1.7782	1.7888	1.8430	1.9488	----	----	1.80	2.20	1.00	1.00	4.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	1.6991	1.7127	1.7674	1.7740	1.7846	1.7514	----	----	1.75	2.20	1.00	1.00	2.0	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	1.7295	1.7399	1.7965	1.8089	1.8543	1.9337	----	----	1.81	2.77	1.00	1.00	4.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	1.3413	1.3239	1.3849	1.3717	1.4221	1.5465	----	----	1.40	2.06	1.00	1.00	5.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	1.3413	1.3239	1.3849	1.3717	1.4221	1.5465	----	----	1.40	2.21	1.00	1.00	5.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 6.03 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G57488.D			7G57507.D			7G57518.D									
Method:				8015			8015			8015									
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM									
Calibration Date/Time				10/26/22 15:01			10/27/22 01:44			10/27/22 13:33									
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	23.77	20	18.9	24.03	20	20.2	20.99	20	4.9						
C9	20	1	0	23.34	20	16.7	23.66	20	18.3	20.87	20	4.4						
C10	20	1	0	23.01	20	15.1	23.39	20	17.0	20.76	20	3.8						
C12	20	1	0	22.38	20	11.9	22.71	20	13.6	19.88	20	0.6						
C14	20	1	0	22.32	20	11.6	22.57	20	12.9	20.24	20	1.2						
C16	20	1	0	22.35	20	11.8	22.56	20	12.8	20.13	20	0.6						
C17	20	1	0	25.6	20	28.0*	22.92	20	14.6	20.31	20	1.5						
Pristane	20	1	0	23.92	20	19.6	24.8	20	24.0*	22.47	20	12.4						
C18	20	1	0	22.54	20	12.7	22.65	20	13.3	20.09	20	0.5						
Phytane	20	1	0	22.8	20	14.0	22.9	20	14.5	20.44	20	2.2						
C20	20	1	0	22.9	20	14.5	23	20	15.0	20.4	20	2.0						
C22	20	1	0	23.01	20	15.1	23.14	20	15.7	20.46	20	2.3						
C24	20	1	0	23.07	20	15.4	23.1	20	15.5	20.44	20	2.2						
C26	20	1	0	23.03	20	15.2	23.05	20	15.3	20.4	20	2.0						
C28	20	1	0	22.83	20	14.2	22.88	20	14.4	20.2	20	1.0						
C30	20	1	0	22.67	20	13.4	22.46	20	12.3	19.9	20	0.5						
C32	20	1	0	22.52	20	12.6	22.05	20	10.3	19.43	20	2.8						
C34	20	1	0	22.4	20	12.0	20.61	20	3.1	18.31	20	8.5						
C36	20	1	0	22.87	20	14.4	18.86	20	5.7	16.31	20	18.5						
C40	20	1	0	22.33	20	11.7	9.59	20	52.1*	8.41	20	58.0*						
C44	20	1	0	21.31	20	6.5	3.88	20	80.6*	3.84	20	80.8*						
Chlorobenzene	20	1	0	23.21	20	16.1	23.57	20	17.9	20.75	20	3.8						
O-Terphenyl	20	1	0	22.25	20	11.3	22.18	20	10.9	20.21	20	1.0						
Average Difference	20	1	0			14.4			18.7			9.4						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.35	(8.31 - 8.39)	8.30	(8.26 - 8.34)	8.29	(8.25 - 8.33)				
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-001(10X)
Client Id: SB-61SS (10')
Data File: 7G57512.D
Analysis Date: 10/27/22 10:36
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 10
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**660**	**8800**				

Worksheet #: 662801

Total Target Concentration 8800

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57512.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 10:36
Operator : ABM/AH/JR/RR
Sample : AD33915-001(10X)
Misc : S,TPH:10
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:45:16 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	10.435f	71856293	3996.418		m
25)t	Total Petroleum Hydroca	10.435f	96620878	5526.701		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

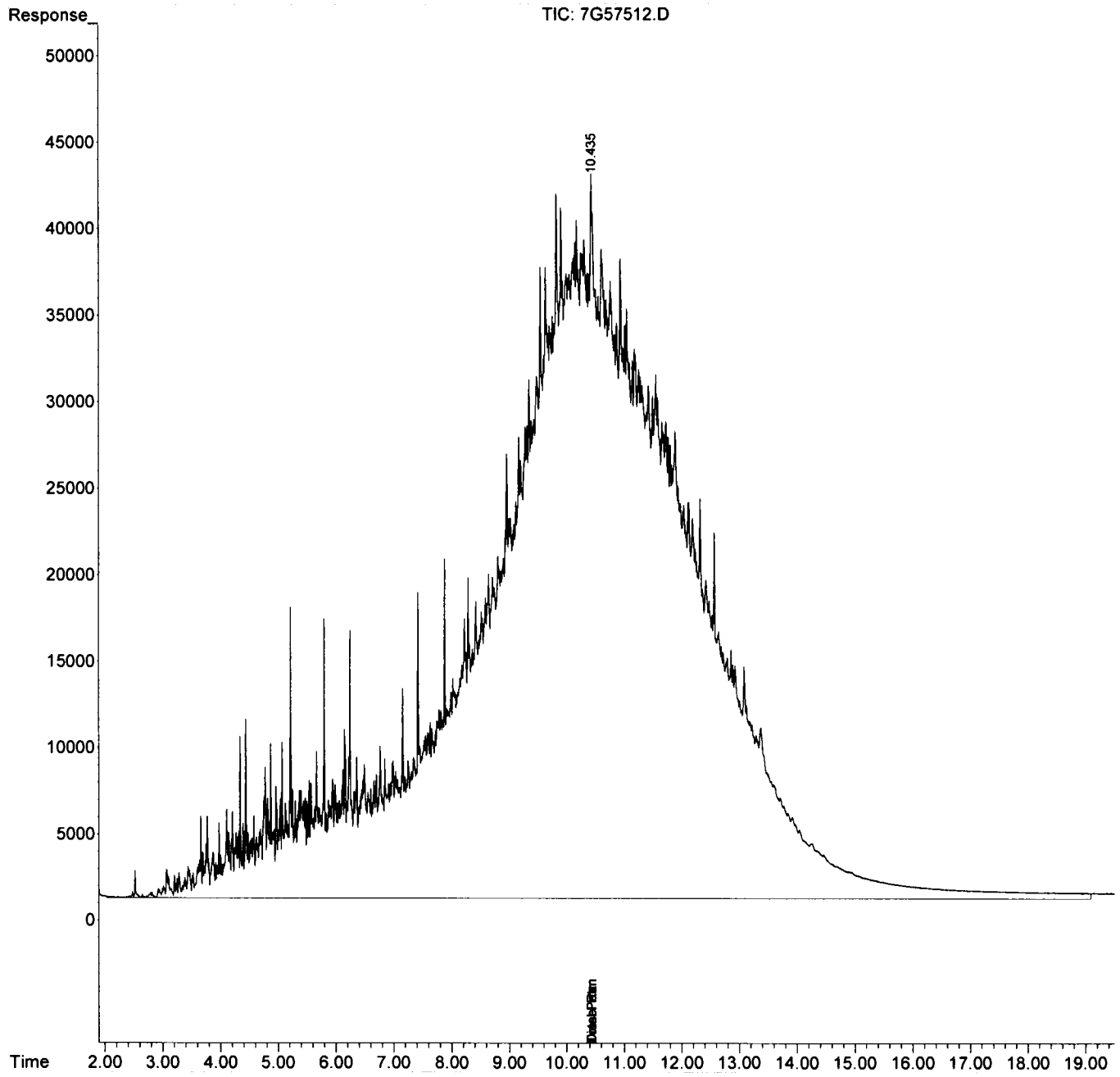
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57512.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 10:36
Operator : ABM/AH/JR/RR
Sample : AD33915-001(10X)
Misc : S,TPH:10
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:45:16 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-002
Client Id: SB-61SS (2')
Data File: 7G57495.D
Analysis Date: 10/26/22 18:55
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**67**	**1400**				

Worksheet #: 662801

Total Target Concentration 1400

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57495.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 18:55
Operator : ABM/AH/JR/RR
Sample : AD33915-002
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:01:01 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.525	135454	11.761		
23)	O-Terphenyl	8.295	349228	16.173		m
24)d	Diesel Range Organics(T	4.180	110343004	6136.926		m
25)t	Total Petroleum Hydroca	4.180	159492725	9122.962		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

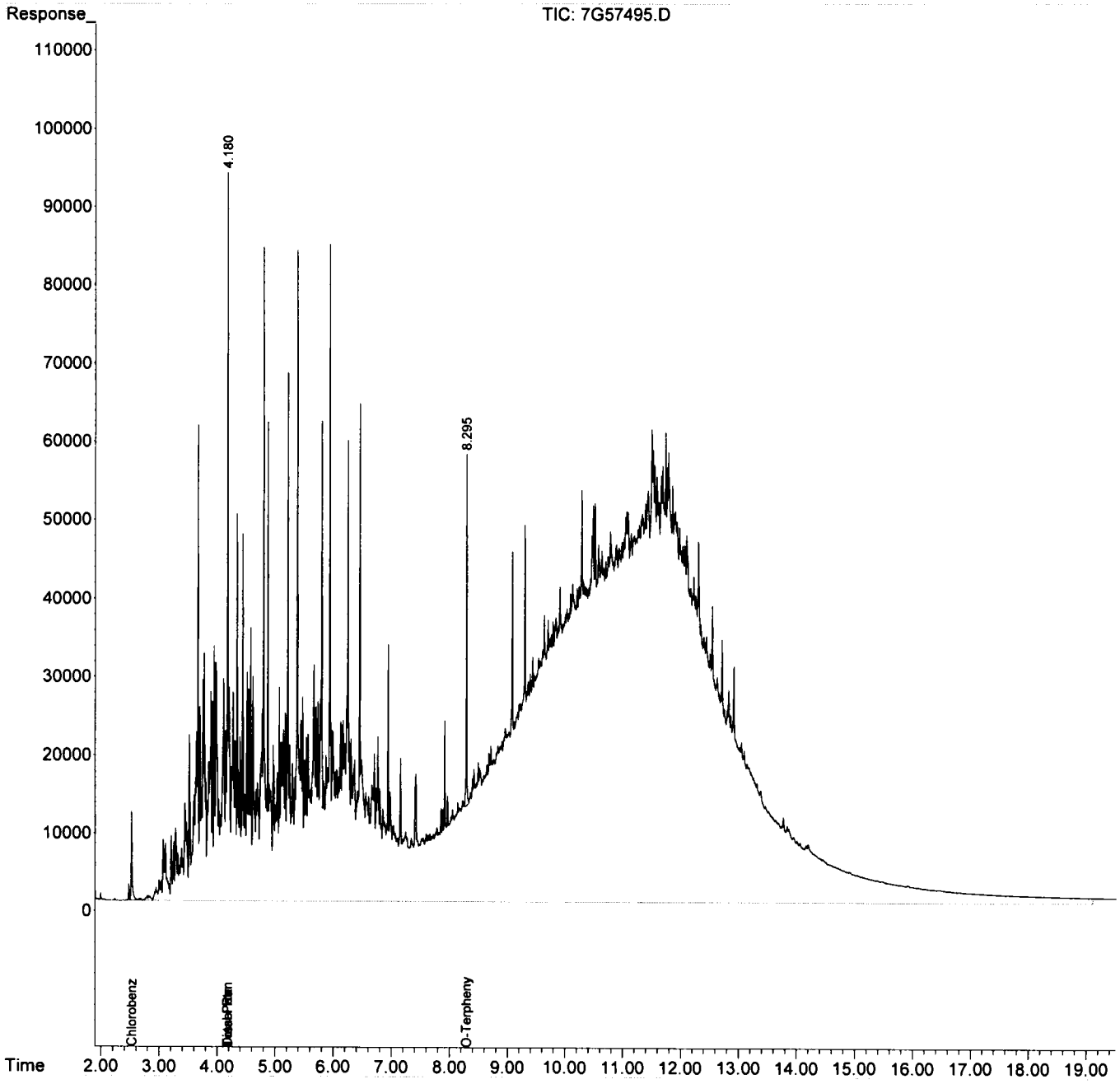
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57495.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 18:55
Operator : ABM/AH/JR/RR
Sample : AD33915-002
Misc : S,TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:01:01 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-003
Client Id: SB-65SS (10')
Data File: 7G57496.D
Analysis Date: 10/26/22 19:24
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**70**	**780**				

Worksheet #: 662801

Total Target Concentration 780

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57496.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 19:24
Operator : ABM/AH/JR/RR
Sample : AD33915-003
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:02:36 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.523	163592	14.204		
23)	O-Terphenyl	8.295	351605	16.283		
24)d	Diesel Range Organics(T	7.925f	60341624	3356.009		m
25)t	Total Petroleum Hydroca	7.925f	102154506	5843.223		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

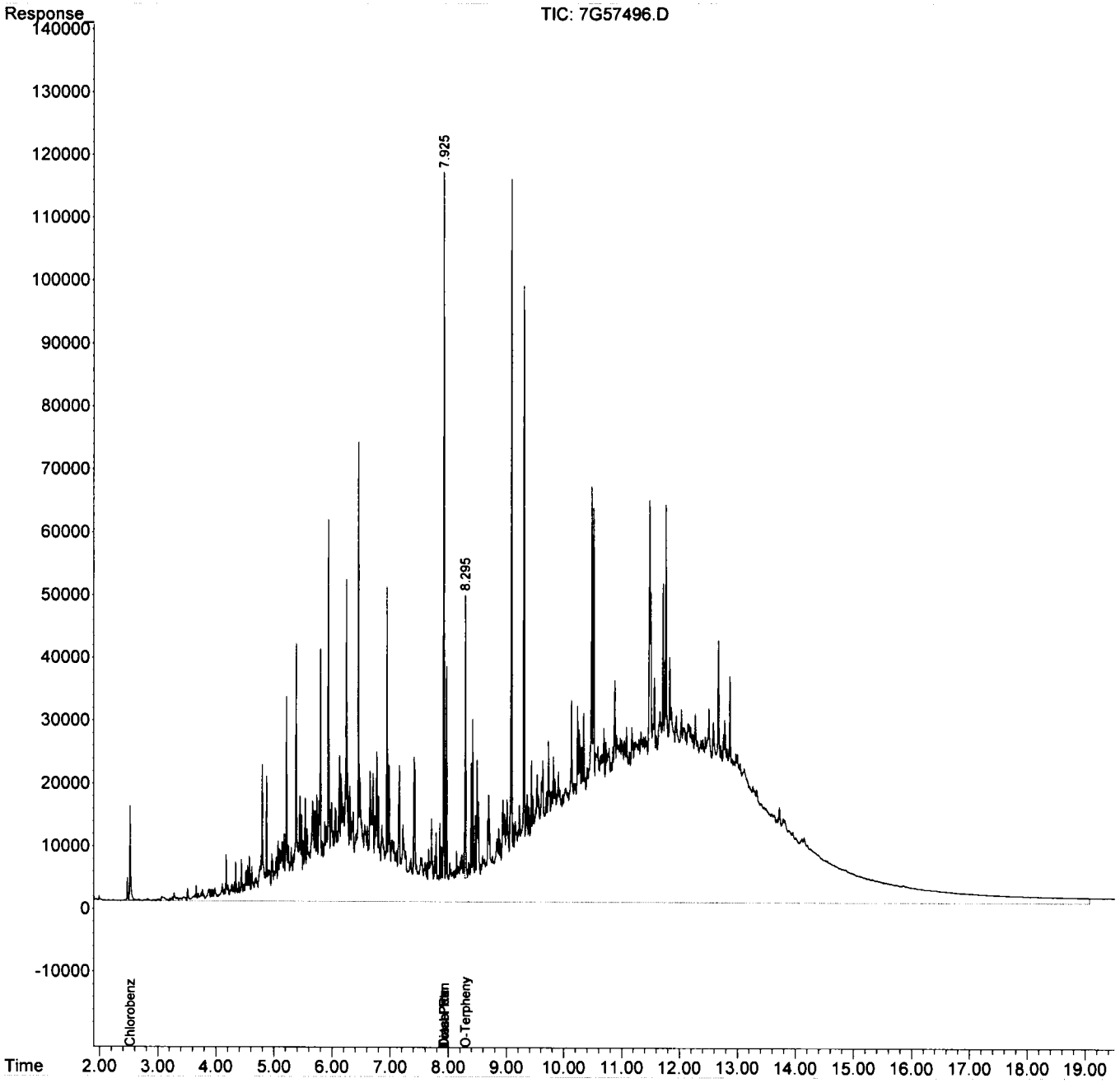
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57496.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 19:24
Operator : ABM/AH/JR/RR
Sample : AD33915-003
Misc : S,TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:02:36 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-004
Client Id: SB-66SS (10')
Data File: 7G57497.D
Analysis Date: 10/26/22 19:54
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**67**	**320**				

Worksheet #: 662801

Total Target Concentration 320

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57497.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 19:54
Operator : ABM/AH/JR/RR
Sample : AD33915-004
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:04:29 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.523	102182	8.872		
23)	O-Terphenyl	8.294	341926	15.835		m
24)d	Diesel Range Organics(T	9.093f	26146124	1454.164		m
25)t	Total Petroleum Hydroca	9.093f	48234220	2758.991		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

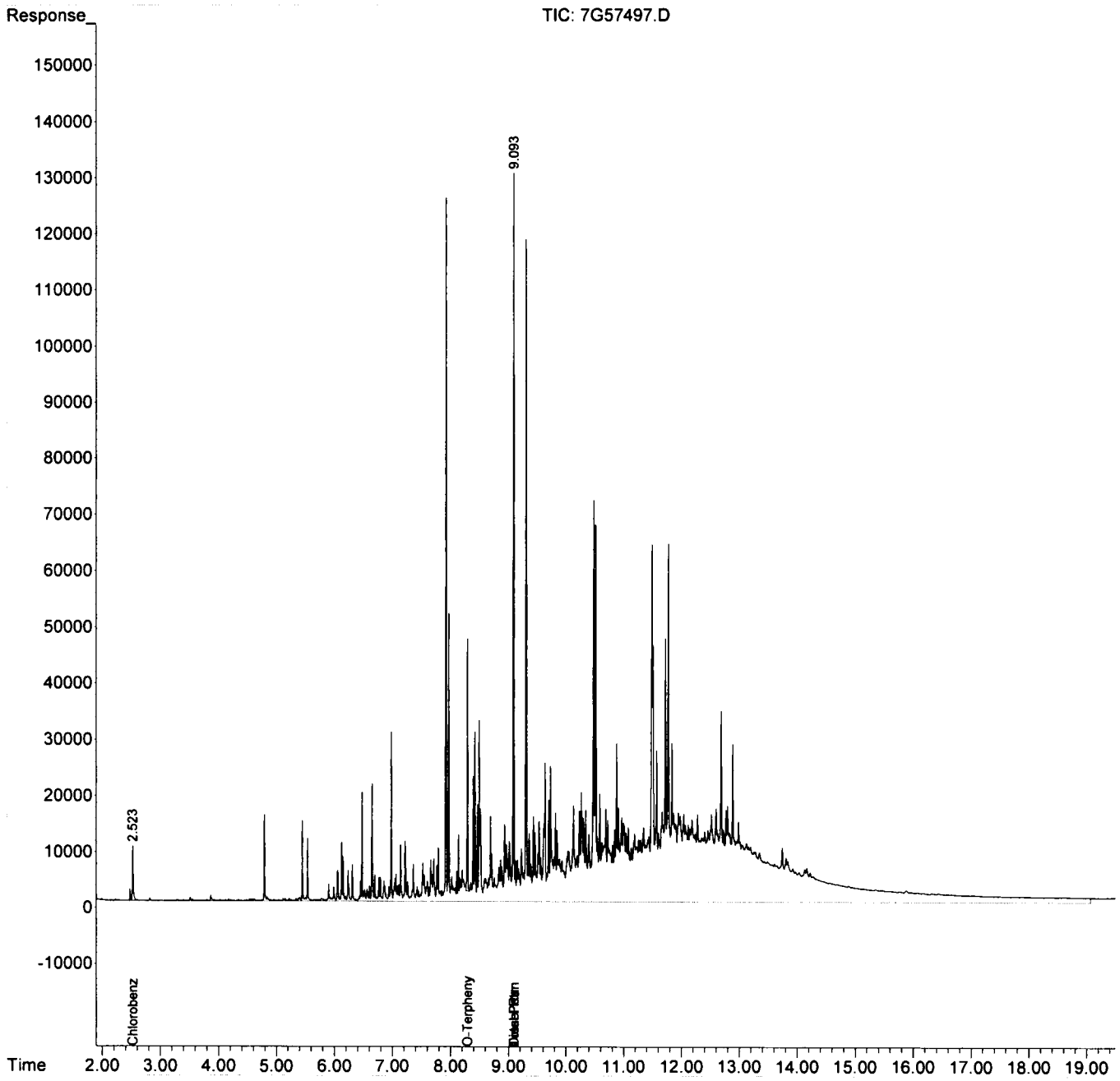
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57497.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 19:54
Operator : ABM/AH/JR/RR
Sample : AD33915-004
Misc : S,TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:04:29 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-005(10X)
Client Id: SB-67SS (4')
Data File: 7G57513.D
Analysis Date: 10/27/22 11:06
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 10
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**710**	**6900**				

Worksheet #: 662801

Total Target Concentration 6900

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57513.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 11:06
Operator : ABM/AH/JR/RR
Sample : AD33915-005(10X)
Misc : S,TPH:10
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:47:15 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	5.391f	52292574	2908.346		m
25)t	Total Petroleum Hydroca	5.391	55312304	3163.856		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

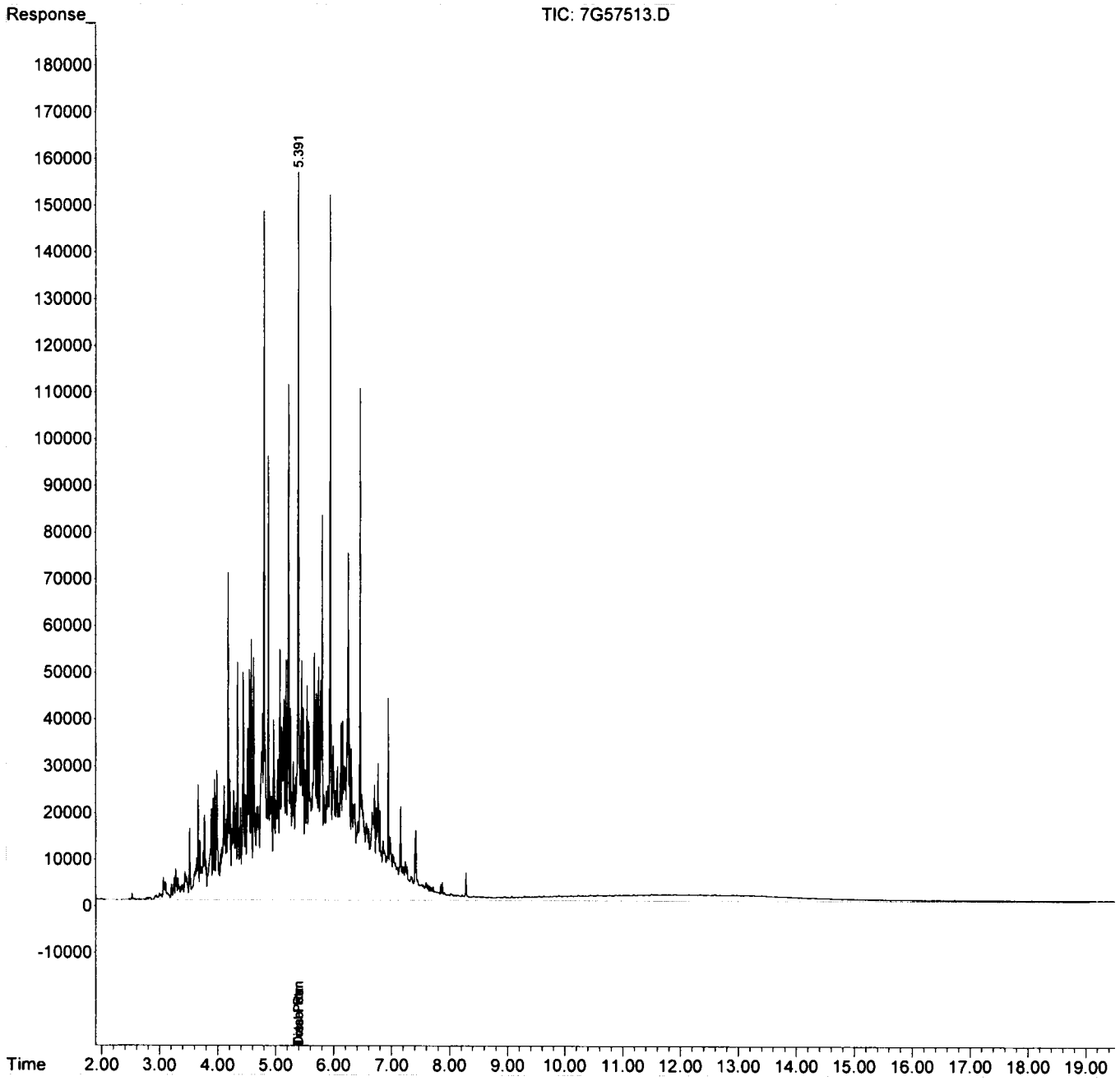
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57513.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 11:06
Operator : ABM/AH/JR/RR
Sample : AD33915-005(10X)
Misc : S,TPH:10
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:47:15 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33915-006
Client Id: SB-19SS (4-6)
Data File: 7G57499.D
Analysis Date: 10/26/22 20:52
Date Rec/Extracted: 10/15/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**71**	**90**				

Worksheet #: 662801

Total Target Concentration 90

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57499.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 20:52
Operator : ABM/AH/JR/RR
Sample : AD33915-006
Misc : S,TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:08:31 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.524	182113	15.812		
23)	O-Terphenyl	8.294	411729	19.068		
24)d	Diesel Range Organics(T	8.294f	7334261	407.908		m
25)t	Total Petroleum Hydroca	8.294f	13445004	769.052		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

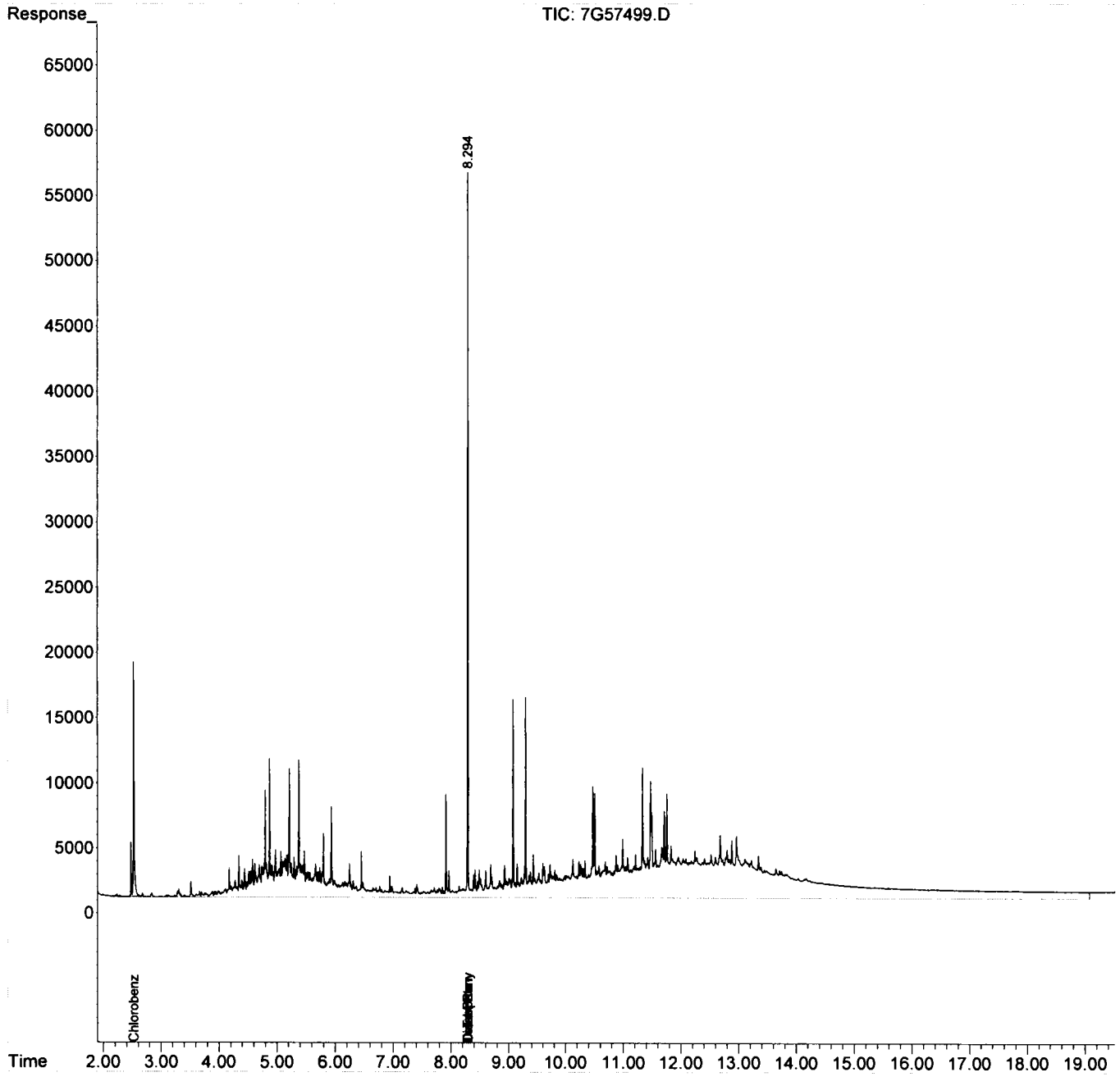
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57499.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 20:52
Operator : ABM/AH/JR/RR
Sample : AD33915-006
Misc : S,TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:08:31 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103420
Client Id:
Data File: 7G57509.D
Analysis Date: 10/27/22 09:08
Date Rec/Extracted: NA-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 662801

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57509.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 9:08
Operator : ABM/AH/JR/RR
Sample : SMB103420
Misc : S,TPH
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:39:37 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.531	129323	11.229		
23)	O-Terphenyl	8.300	367991	17.042		
24)d	Diesel Range Organics(T	8.300f	1116013	62.069		m
25)t	Total Petroleum Hydroca	8.300f	2403726	137.493		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

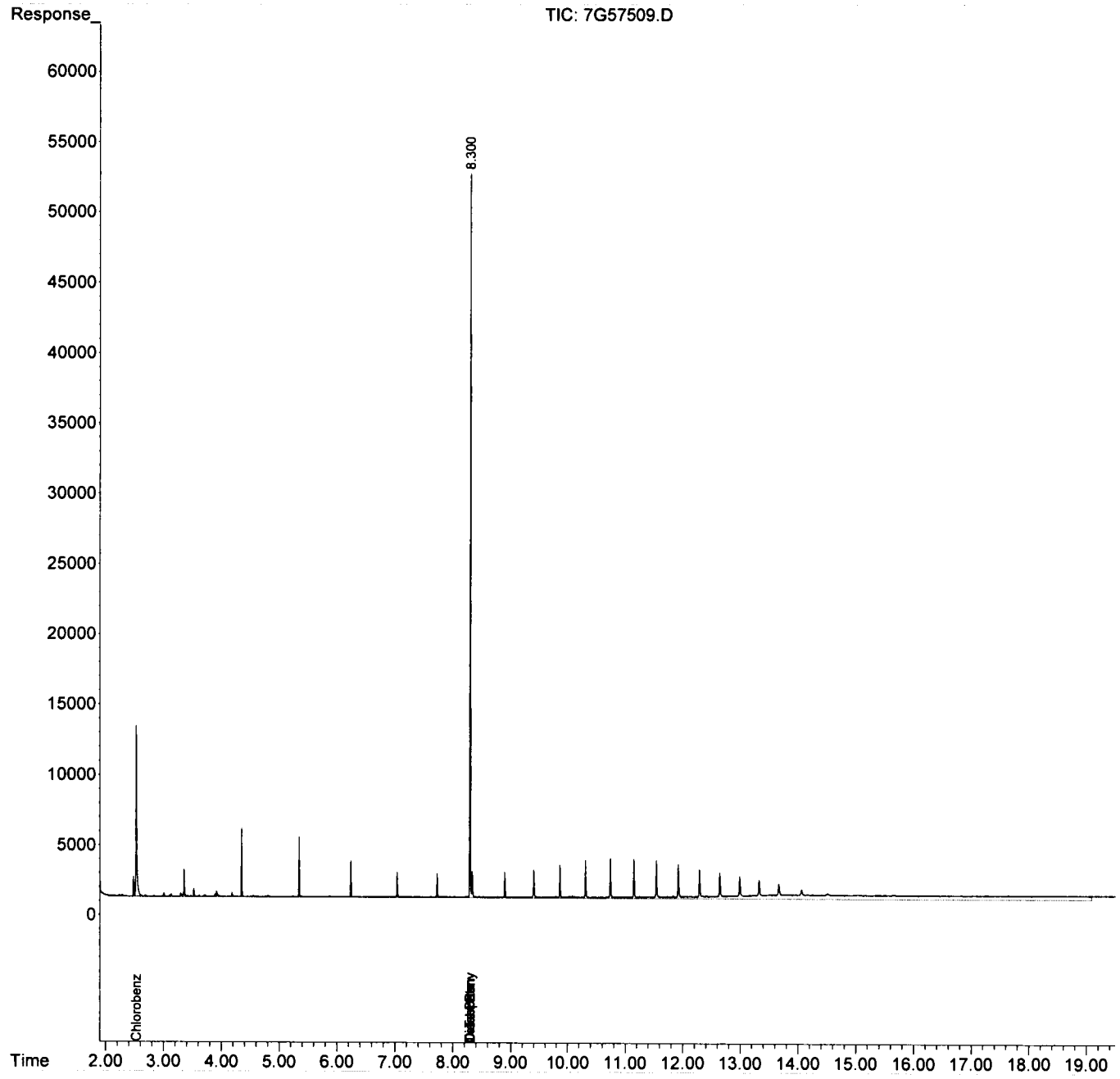
(f)=RT Delta > 1/2 Window (m)=manual int. KJ

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57509.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 9:08
Operator : ABM/AH/JR/RR
Sample : SMB103420
Misc : S,TPH
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:39:37 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57489.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 15:36
Operator : ABM/AH/JR/RR
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 26 16:04:48 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	5.343f	121020	6.731		m
25)t	Total Petroleum Hydroca	14.551f	731627	41.849		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

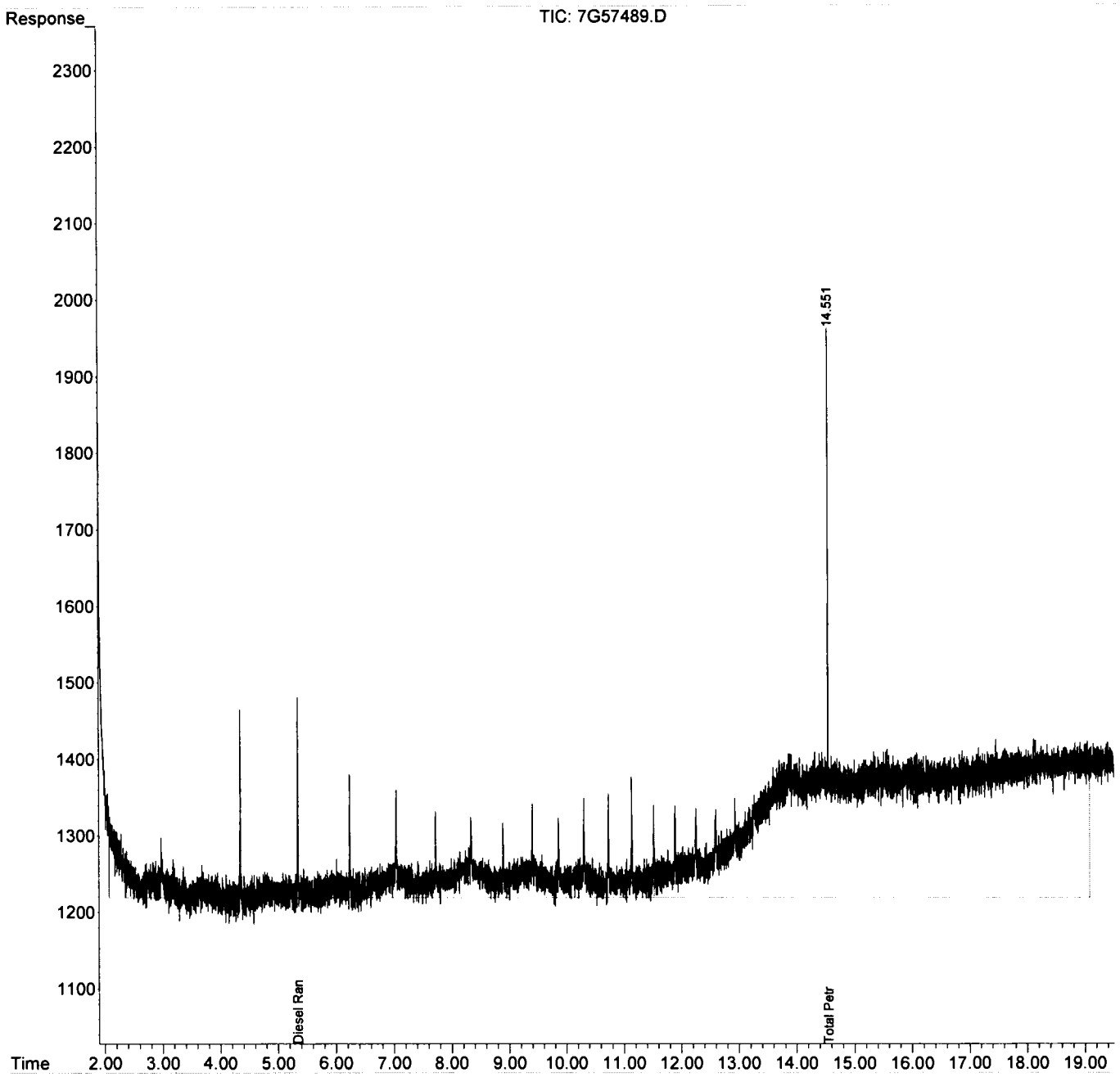
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57489.D
Signal(s) : FID2B.CH
Acq On : 26 Oct 2022 15:36
Operator : ABM/AH/JR/RR
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 26 16:04:48 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57508.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 3:12
Operator : ABM/AH/JR/RR
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:37:31 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	5.335f	209791	11.668		m
25)t	Total Petroleum Hydroca	13.054f	1552187	88.785		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

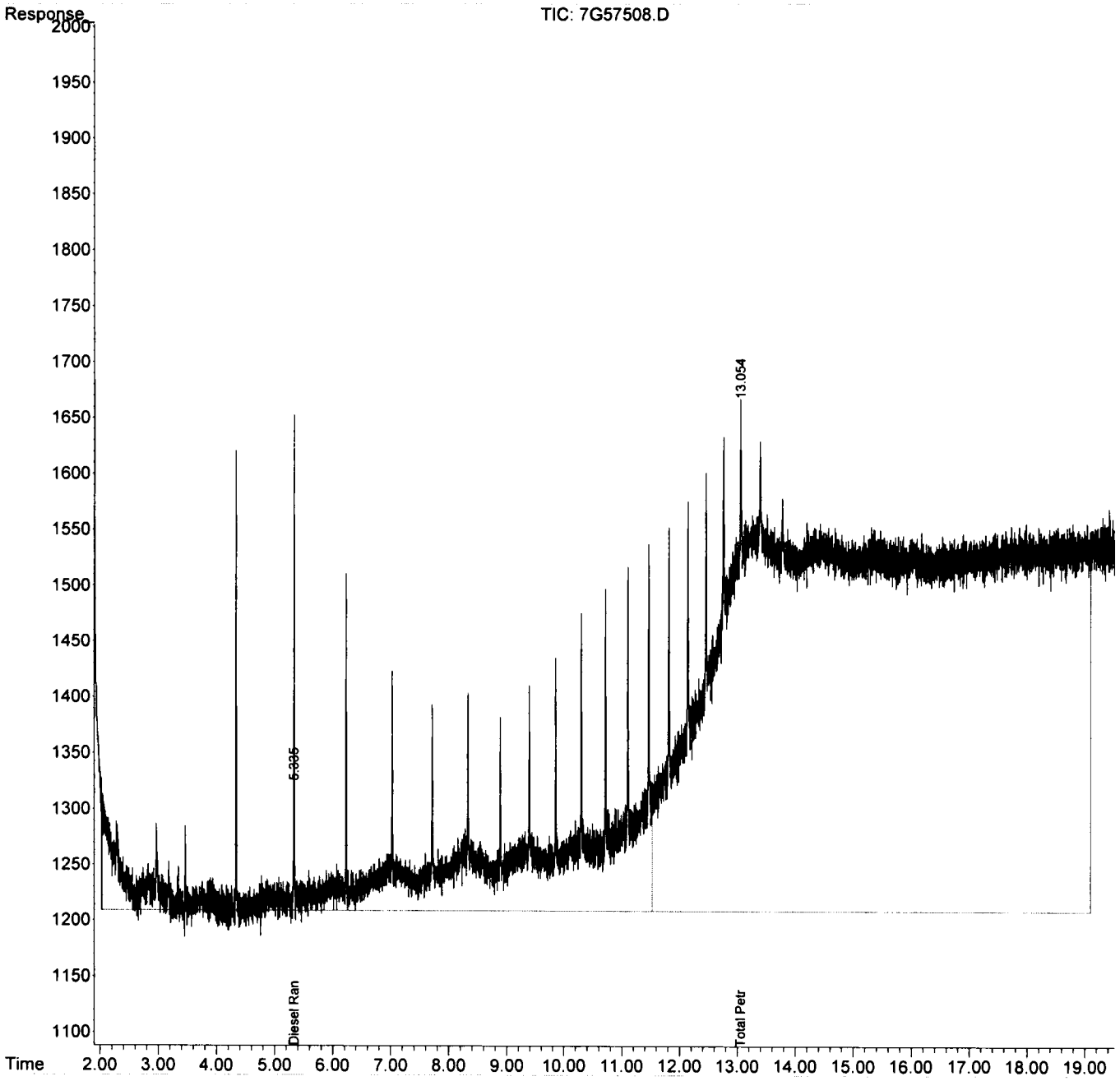
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57508.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 3:12
Operator : ABM/AH/JR/RR
Sample : INST BLK
Misc : S,TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:37:31 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G57509.D	SMB103420	S	10/27/22 09:08	1		56	85				
7G57512.D	AD33915-001(10X)	S	10/27/22 10:36	10	SD	0*	0*				
7G57495.D	AD33915-002	S	10/26/22 18:55	1		59	81				
7G57496.D	AD33915-003	S	10/26/22 19:24	1		71	81				
7G57497.D	AD33915-004	S	10/26/22 19:54	1		44	79				
7G57513.D	AD33915-005(10X)	S	10/27/22 11:06	10	SD	0*	0*				
7G57499.D	AD33915-006	S	10/26/22 20:52	1		79	95				
7G57490.D	SMB103420(MS)	S	10/26/22 16:29	1		61	81				
7G57493.D	AD33995-001(MS)	S	10/26/22 17:57	1		57	80				
7G57494.D	AD33995-001(MSD)	S	10/26/22 18:26	1		12*	54				
7G57514.D	AD33995-001(3X)	S	10/27/22 11:35	3		30	69				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103420

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57490.D	SMB103420(MS)	10/26/2022 4:29:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2260.4**	**0**	**3000**	**75**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103420

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57493.D	AD33995-001(MS)	10/26/2022 5:57:00 PM
Non Spike(If applicable):	7G57514.D	AD33995-001(3X)	10/27/2022 11:35:00 A
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**5926.77**	**7408.141**	**3000**	**-49***	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57494.D	AD33995-001(MSD)	10/26/2022 6:26:00 PM
Non Spike(If applicable):	7G57514.D	AD33995-001(3X)	10/27/2022 11:35:00 A
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**3923.67**	**7408.141**	**3000**	**-120***	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103420

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57494.D	AD33995-001(MSD)	10/26/2022 6:26:00 PM
Duplicate(If applicable):	7G57493.D	AD33995-001(MS)	10/26/2022 5:57:00 PM
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**3923.67**	**5926.77**	**41***	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103420
Blank Data File: 7G57509.D
Matrix: Soil

Blank Analysis Date: 10/27/22 09:08
Blank Extraction Date: 10/26/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33915-001(10X)	7G57512.D	10/27/22 10:36
AD33915-002	7G57495.D	10/26/22 18:55
AD33915-003	7G57496.D	10/26/22 19:24
AD33915-004	7G57497.D	10/26/22 19:54
AD33915-005(10X)	7G57513.D	10/27/22 11:06
AD33915-006	7G57499.D	10/26/22 20:52
AD33995-001(3X)	7G57514.D	10/27/22 11:35
AD33995-001(MSD	7G57494.D	10/26/22 18:26
AD33995-001(MS)	7G57493.D	10/26/22 17:57
SMB103420(MS)	7G57490.D	10/26/22 16:29

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G57362.D	TEST	09/30/22 12:59	Soil					
7G57363.D	CAL TPH@20PPM	09/30/22 13:30	Soil	7G57364.	8.3360	0.0636		
7G57364.D	CAL TPH@5PPM	09/30/22 14:00	Soil	7G57364.	8.3307	0		
7G57365.D	CAL TPH@10PPM	09/30/22 14:29	Soil	7G57364.	8.3305	0.0024		
7G57366.D	CAL TPH@40PPM	09/30/22 14:58	Soil	7G57364.	8.3371	0.0768		
7G57367.D	CAL TPH@100PPM	09/30/22 15:28	Soil	7G57364.	8.3495	0.2254		
7G57368.D	CAL TPH@500PPM	09/30/22 15:57	Soil	7G57364.	8.3866	0.6688		
7G57369.D	TPH@20PPM	09/30/22 16:26	Soil	7G57364.	8.3323	0.0192		
7G57370.D	ICVTPH@20PPM	09/30/22 16:56	Soil	7G57364.	8.3310	0.0036		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G57486.D	INST BLK	10/26/22 11:44	Soil					
7G57487.D	TPH@20PPM	10/26/22 12:13	Soil					
7G57488.D	CALTPH@20PPM	10/26/22 15:01	Soil	7G57488.	8.3026	0		
7G57489.D	INST BLK	10/26/22 15:36	Soil	7G57488.	0.0000	200		
7G57490.D	SMB103420(MS)	10/26/22 16:29	Soil	7G57488.	8.3015	0.0132		
7G57491.D	SMB103421(MS)	10/26/22 16:58	Soil	7G57488.	8.2958	0.0819		
7G57492.D	AD33915-001	10/26/22 17:28	Soil	7G57488.	8.3166	0.1685		
7G57493.D	AD33995-001(MS)	10/26/22 17:57	Soil	7G57488.	8.2958	0.0819		
7G57494.D	AD33995-001(MSD)	10/26/22 18:26	Soil	7G57488.	8.2936	0.1085		
7G57495.D	AD33915-002	10/26/22 18:55	Soil	7G57488.	8.2947	0.0952		
7G57496.D	AD33915-003	10/26/22 19:24	Soil	7G57488.	8.2949	0.0928		
7G57497.D	AD33915-004	10/26/22 19:54	Soil	7G57488.	8.2939	0.1048		
7G57498.D	AD33915-005	10/26/22 20:23	Soil	7G57488.	8.2962	0.0771		
7G57499.D	AD33915-006	10/26/22 20:52	Soil	7G57488.	8.2939	0.1048		
7G57500.D	AD33995-001	10/26/22 21:21	Soil	7G57488.	8.2935	0.1097		
7G57501.D	AD34112-001	10/26/22 21:50	Soil	7G57488.	8.2956	0.0843		
7G57502.D	AD34112-001(MS)	10/26/22 22:19	Soil	7G57488.	8.2970	0.0675		
7G57503.D	AD34112-001(MSD)	10/26/22 22:48	Soil	7G57488.	8.2985	0.0494		
7G57504.D	AD34055-002	10/26/22 23:17	Soil	7G57488.	8.2949	0.0928		
7G57505.D	AD34055-004	10/26/22 23:47	Soil	7G57488.	8.2931	0.1145		
7G57506.D	TPH@20PPM	10/27/22 01:15	Soil	7G57488.	8.2918	0.1302		
7G57507.D	CALTPH@20PPM	10/27/22 01:44	Soil	7G57488.	8.2913	0.1362		
7G57508.D	INST BLK	10/27/22 03:12	Soil	7G57507.	0.0000	200		
7G57509.D	SMB103420	10/27/22 09:08	Soil	7G57507.	8.3001	0.1061		
7G57510.D	SMB103421	10/27/22 09:38	Soil	7G57507.	8.2915	0.0024		
7G57511.D	AD34055-006	10/27/22 10:07	Soil	7G57507.	8.2907	0.0072		
7G57512.D	AD33915-001(10X)	10/27/22 10:36	Soil	7G57507.	0.0000	200		
7G57513.D	AD33915-005(10X)	10/27/22 11:06	Soil	7G57507.	0.0000	200		
7G57514.D	AD33995-001(3X)	10/27/22 11:35	Soil	7G57507.	8.2859	0.0651		
7G57515.D	AD34112-001(2X)(MS)	10/27/22 12:05	Soil	7G57507.	8.2884	0.035		
7G57516.D	AD34112-001(2X)(MSD)	10/27/22 12:35	Soil	7G57507.	8.2906	0.0084		
7G57517.D	TPH@20PPM	10/27/22 13:03	Soil	7G57507.	8.2904	0.0109		
7G57518.D	CALTPH@20PPM	10/27/22 13:33	Soil	7G57507.	8.2894	0.0229		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101501 0210

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G57364.D	CAL TPH@5PPM	09/30/22 14:00	2	7G57365.D	CAL TPH@10PPM	09/30/22 14:29
3	7G57363.D	CAL TPH@20PPM	09/30/22 13:30	4	7G57366.D	CAL TPH@40PPM	09/30/22 14:58
5	7G57367.D	CAL TPH@100PPM	09/30/22 15:28	6	7G57368.D	CAL TPH@500PPM	09/30/22 15:57

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	1.1259	1.0968	1.1561	1.1401	1.1806	1.3210	----	----	1.17	2.20	1.00	1.00	6.8	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	1.2671	1.2303	1.2875	1.2687	1.3115	1.4564	----	----	1.30	2.86	1.00	1.00	6.1	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	1.3811	1.3480	1.4201	1.4021	1.4619	1.5971	----	----	1.44	3.55	0.999	1.00	6.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	1.4391	1.4555	1.5205	1.5130	1.5724	1.6874	----	----	1.53	4.84	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	1.4933	1.4890	1.5405	1.5345	1.5844	1.6705	----	----	1.55	5.97	1.00	1.00	4.4	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	1.7170	1.7211	1.7588	1.7765	1.8350	1.9151	----	----	1.79	6.99	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	1.6831	1.7020	1.7497	1.7940	2.0573	----	----	----	1.80	7.45	0.998	1.00	8.4	5.00	10.00	20.00	40.00	100.0			
Pristane	1	0	Avg	2.2057	2.2437	2.3440	2.2869	2.0698	1.4398	----	----	2.10	7.47	0.993	1.00	16	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	1.7286	1.7461	1.7985	1.8073	1.8902	2.2547	----	----	1.87	7.90	0.999	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	1.5782	1.6312	1.6558	1.7072	1.7338	1.4892	----	----	1.63	7.93	0.999	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	1.8227	1.8440	1.8965	1.9281	2.0112	2.1147	----	----	1.94	8.72	1.00	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	1.7345	1.7620	1.8116	1.8305	1.9051	2.0157	----	----	1.84	9.47	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	1.7933	1.8178	1.8720	1.8902	1.9555	2.0634	----	----	1.90	10.17	1.00	1.00	5.2	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	1.7681	1.7874	1.8460	1.8596	1.9120	2.0270	----	----	1.87	10.83	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	1.8373	1.8462	1.9030	1.9250	1.9705	2.0769	----	----	1.93	11.47	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	1.9175	1.9241	1.9835	2.0097	2.0483	2.1286	----	----	2.00	12.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	1.9109	1.9016	1.9597	1.9864	2.0033	2.0286	----	----	1.97	12.69	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	1.9547	1.9529	2.0138	2.0442	2.0679	2.0208	----	----	2.01	13.28	1.00	1.00	2.3	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	1.8980	1.9147	1.9751	1.9956	1.9879	1.8383	----	----	1.93	13.91	0.999	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	1.7903	1.8501	1.8967	1.8872	1.7994	----	----	----	1.84	15.75	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0			
C44	1	0	Avg	1.6345	1.7031	1.7265	1.6662	1.1190	----	----	----	1.57	19.03	0.959	1.00	16	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	1.1218	1.0981	1.1474	1.1291	1.1636	1.2501	----	----	1.15	2.53	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	2.1046	2.1021	2.1482	2.1329	2.1819	2.2857	----	----	2.16	8.34	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	1.7063	1.7226	1.7782	1.7888	1.8430	1.9488	----	----	1.80	2.20	1.00	1.00	4.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	1.6991	1.7127	1.7674	1.7740	1.7846	1.7514	----	----	1.75	2.20	1.00	1.00	2.0	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	1.7295	1.7399	1.7965	1.8089	1.8543	1.9337	----	----	1.81	2.77	1.00	1.00	4.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	1.3413	1.3239	1.3849	1.3717	1.4221	1.5465	----	----	1.40	2.06	1.00	1.00	5.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	1.3413	1.3239	1.3849	1.3717	1.4221	1.5465	----	----	1.40	2.21	1.00	1.00	5.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 6.03 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pch/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G57488.D			7G57507.D			7G57518.D									
Method:				8015			8015			8015									
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM									
Calibration Date/Time				10/26/22 15:01			10/27/22 01:44			10/27/22 13:33									
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	23.77	20	18.9	24.03	20	20.2	20.99	20	4.9						
C9	20	1	0	23.34	20	16.7	23.66	20	18.3	20.87	20	4.4						
C10	20	1	0	23.01	20	15.1	23.39	20	17.0	20.76	20	3.8						
C12	20	1	0	22.38	20	11.9	22.71	20	13.6	19.88	20	0.6						
C14	20	1	0	22.32	20	11.6	22.57	20	12.9	20.24	20	1.2						
C16	20	1	0	22.35	20	11.8	22.56	20	12.8	20.13	20	0.6						
C17	20	1	0	25.6	20	28.0*	22.92	20	14.6	20.31	20	1.5						
Pristane	20	1	0	23.92	20	19.6	24.8	20	24.0*	22.47	20	12.4						
C18	20	1	0	22.54	20	12.7	22.65	20	13.3	20.09	20	0.5						
Phytane	20	1	0	22.8	20	14.0	22.9	20	14.5	20.44	20	2.2						
C20	20	1	0	22.9	20	14.5	23	20	15.0	20.4	20	2.0						
C22	20	1	0	23.01	20	15.1	23.14	20	15.7	20.46	20	2.3						
C24	20	1	0	23.07	20	15.4	23.1	20	15.5	20.44	20	2.2						
C26	20	1	0	23.03	20	15.2	23.05	20	15.3	20.4	20	2.0						
C28	20	1	0	22.83	20	14.2	22.88	20	14.4	20.2	20	1.0						
C30	20	1	0	22.67	20	13.4	22.46	20	12.3	19.9	20	0.5						
C32	20	1	0	22.52	20	12.6	22.05	20	10.3	19.43	20	2.8						
C34	20	1	0	22.4	20	12.0	20.61	20	3.1	18.31	20	8.5						
C36	20	1	0	22.87	20	14.4	18.86	20	5.7	16.31	20	18.5						
C40	20	1	0	22.33	20	11.7	9.59	20	52.1*	8.41	20	58.0*						
C44	20	1	0	21.31	20	6.5	3.88	20	80.6*	3.84	20	80.8*						
Chlorobenzene	20	1	0	23.21	20	16.1	23.57	20	17.9	20.75	20	3.8						
O-Terphenyl	20	1	0	22.25	20	11.3	22.18	20	10.9	20.21	20	1.0						
Average Difference	20	1	0			14.4			18.7			9.4						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.35	(8.31 - 8.39)	8.30	(8.26 - 8.34)	8.29	(8.25 - 8.33)				
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD33915-001
Client Id: SB-61SS (10')
Data File: 13M25904.D
Analysis Date: 10/17/22 23:45
Date Rec/Extracted: 10/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.36g:10ml
Final Vol: NA
Dilution: 93.3
Solids: 91

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**26**	**150**				

Worksheet #: 662768

Total Target Concentration 150

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25904.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 23:45
Operator : WP
Sample : AD33915-001
Misc : M,MEXT!3
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 10:55:08 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.668f	4911	24.068		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	9.569	321132	1424.337	ug/L	m

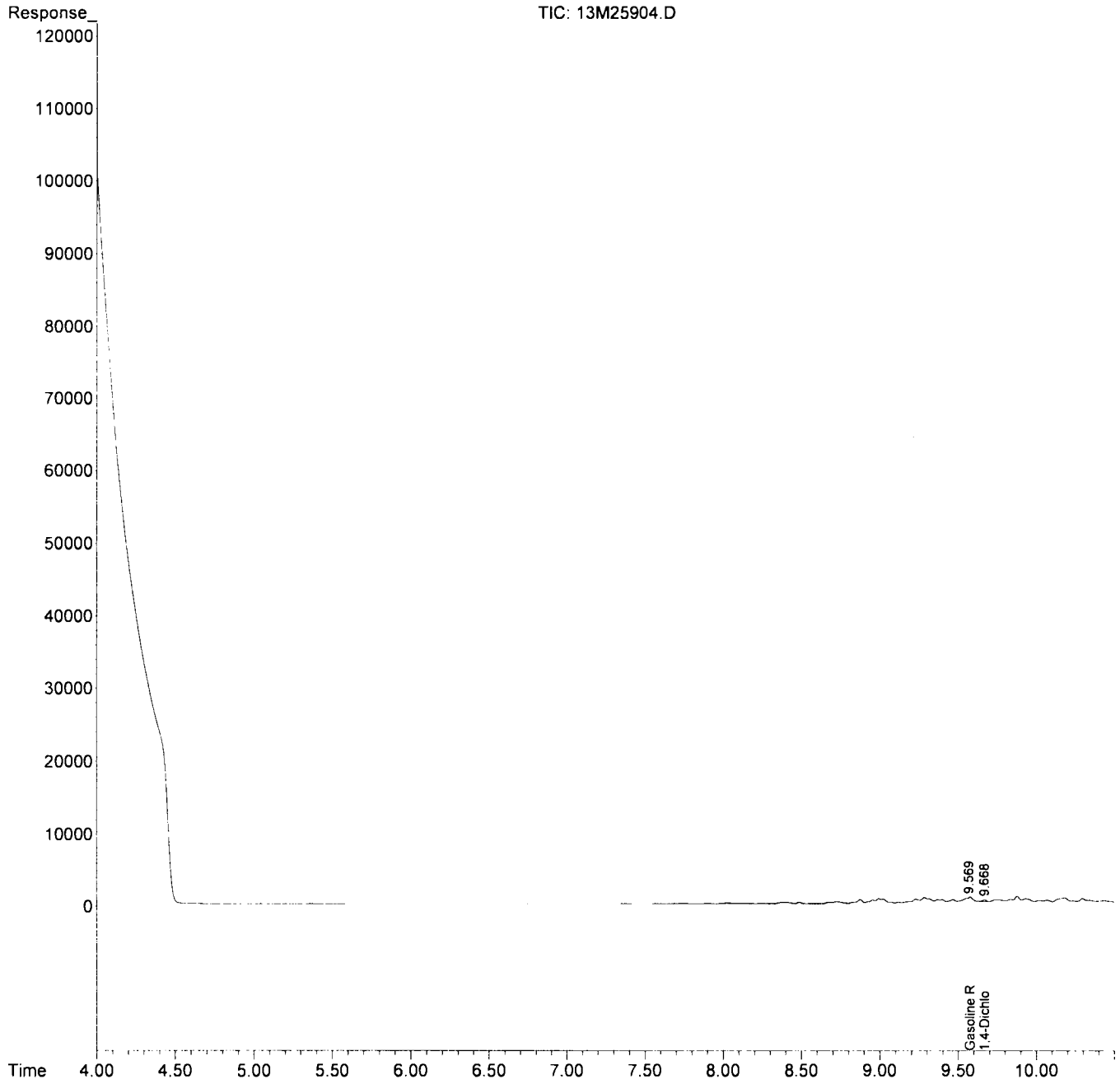
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25904.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 23:45
Operator : WP
Sample : AD33915-001
Misc : M,MEXT!3
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 10:55:08 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33915-002
Client Id: SB-61SS (2')
Data File: 13M25905.D
Analysis Date: 10/18/22 00:00
Date Rec/Extracted: 10/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.58g:10ml
Final Vol: NA
Dilution: 89.6
Solids: 90

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**25**	**160**				

Worksheet #: 662768 *Total Target Concentration* 160 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25905.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2022 00:00
Operator : WP
Sample : AD33915-002
Misc : M,MEXT!3
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 10:55:39 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.668f	5546	27.182		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	9.578	365087	1619.290	ug/L	m

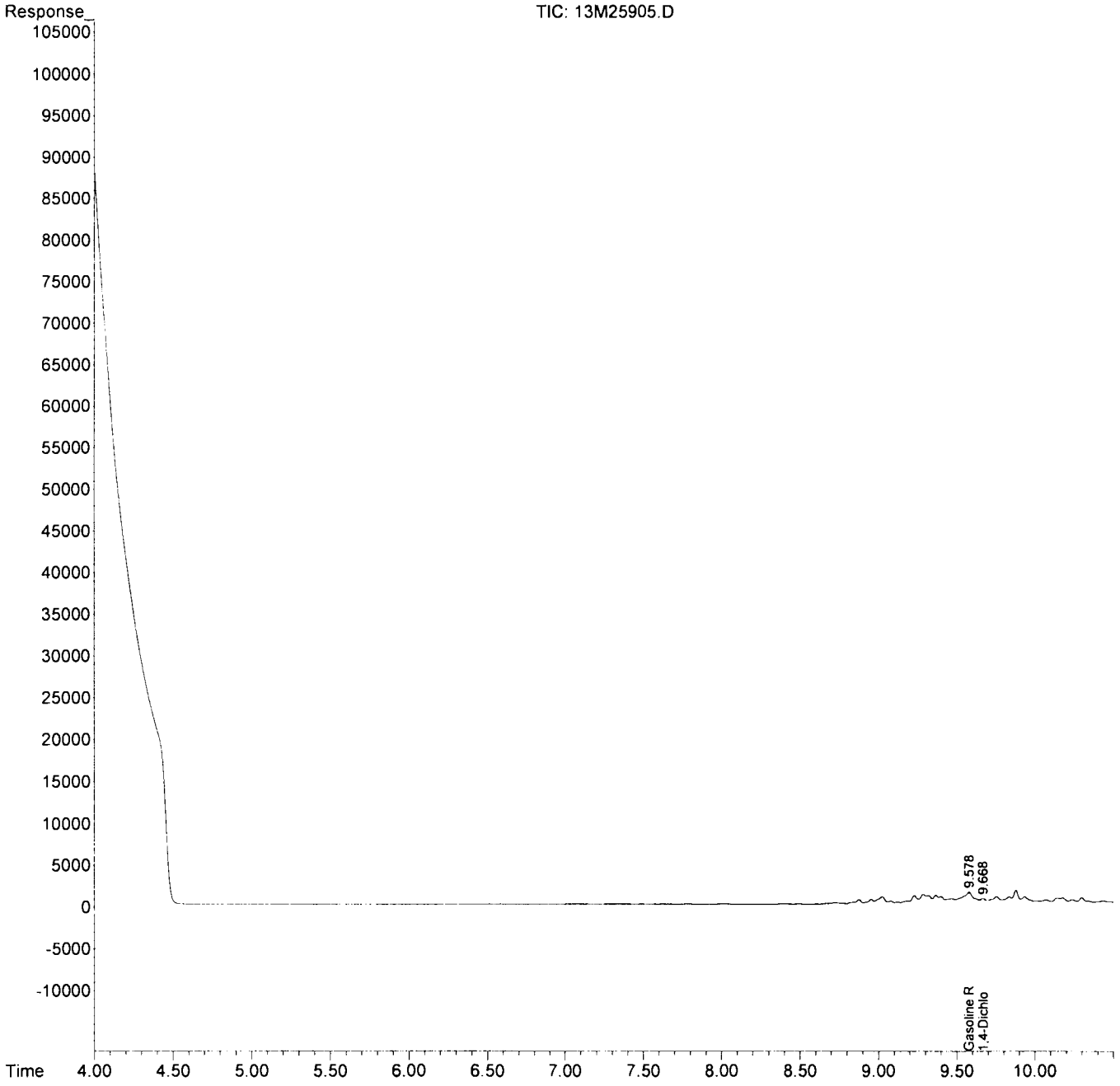
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25905.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2022 00:00
Operator : WP
Sample : AD33915-002
Misc : M,MEXT!3
ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 10:55:39 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33915-003
Client Id: SB-65SS (10')
Data File: 13M25906.D
Analysis Date: 10/18/22 00:17
Date Rec/Extracted: 10/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.42g:10ml
Final Vol: NA
Dilution: 92.3
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	27	49				

Worksheet #: 662768

Total Target Concentration 49

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25906.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2022 00:17
Operator : WP
Sample : AD33915-003
Misc : M,MEXT!3
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 10:56:28 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.670f	4695	23.008		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	9.365	102895	456.376	ug/L	m

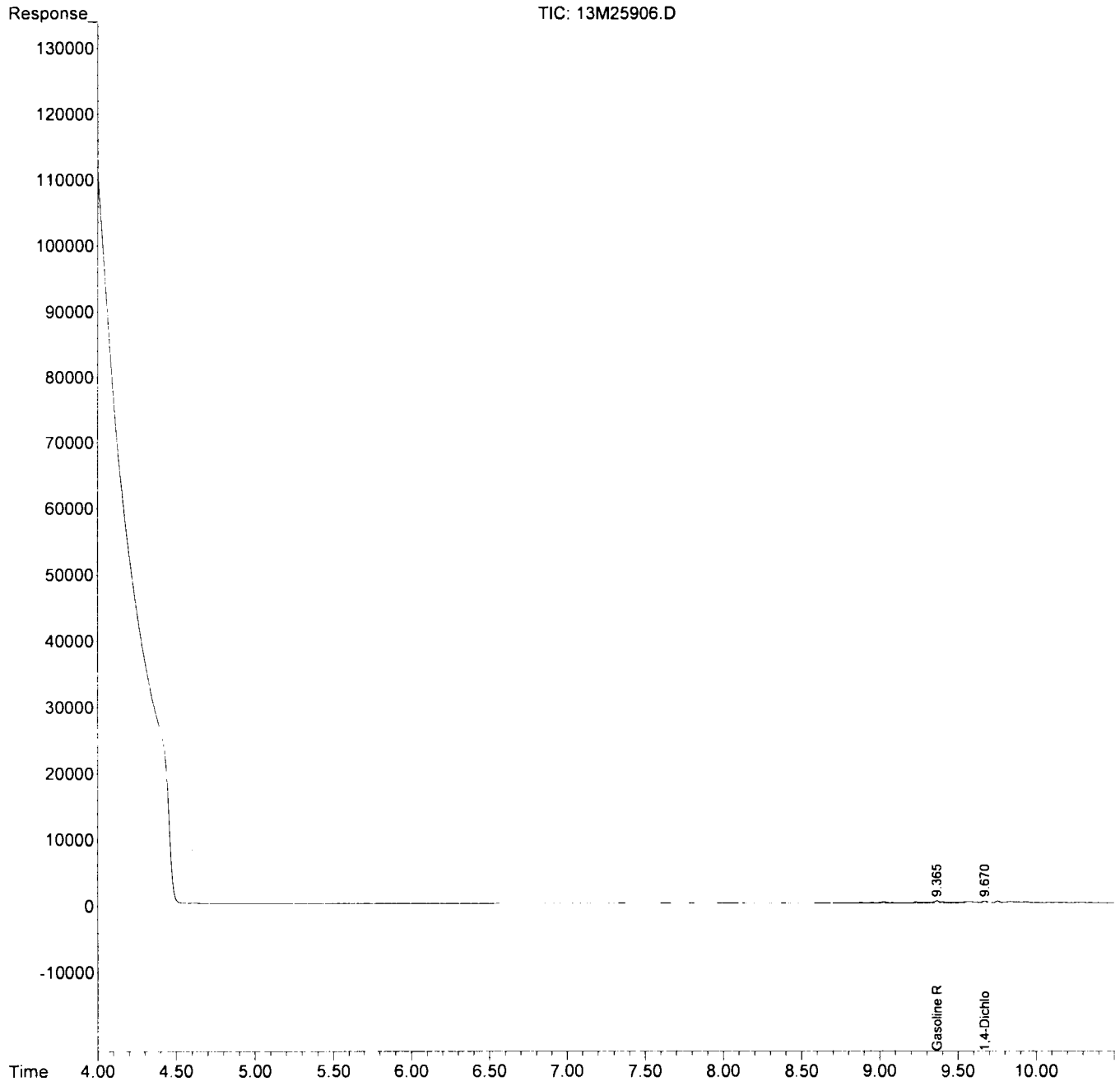
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25906.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2022 00:17
Operator : WP
Sample : AD33915-003
Misc : M,MEXT!3
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 10:56:28 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33915-004
Client Id: SB-66SS (10')
Data File: 13M25907.D
Analysis Date: 10/18/22 00:32
Date Rec/Extracted: 10/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.46g:10ml
Final Vol: NA
Dilution: 91.6
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	26	U				

Worksheet #: 662768

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25907.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2022 00:32
Operator : WP
Sample : AD33915-004
Misc : M,MEXT!3
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 18 00:46:50 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

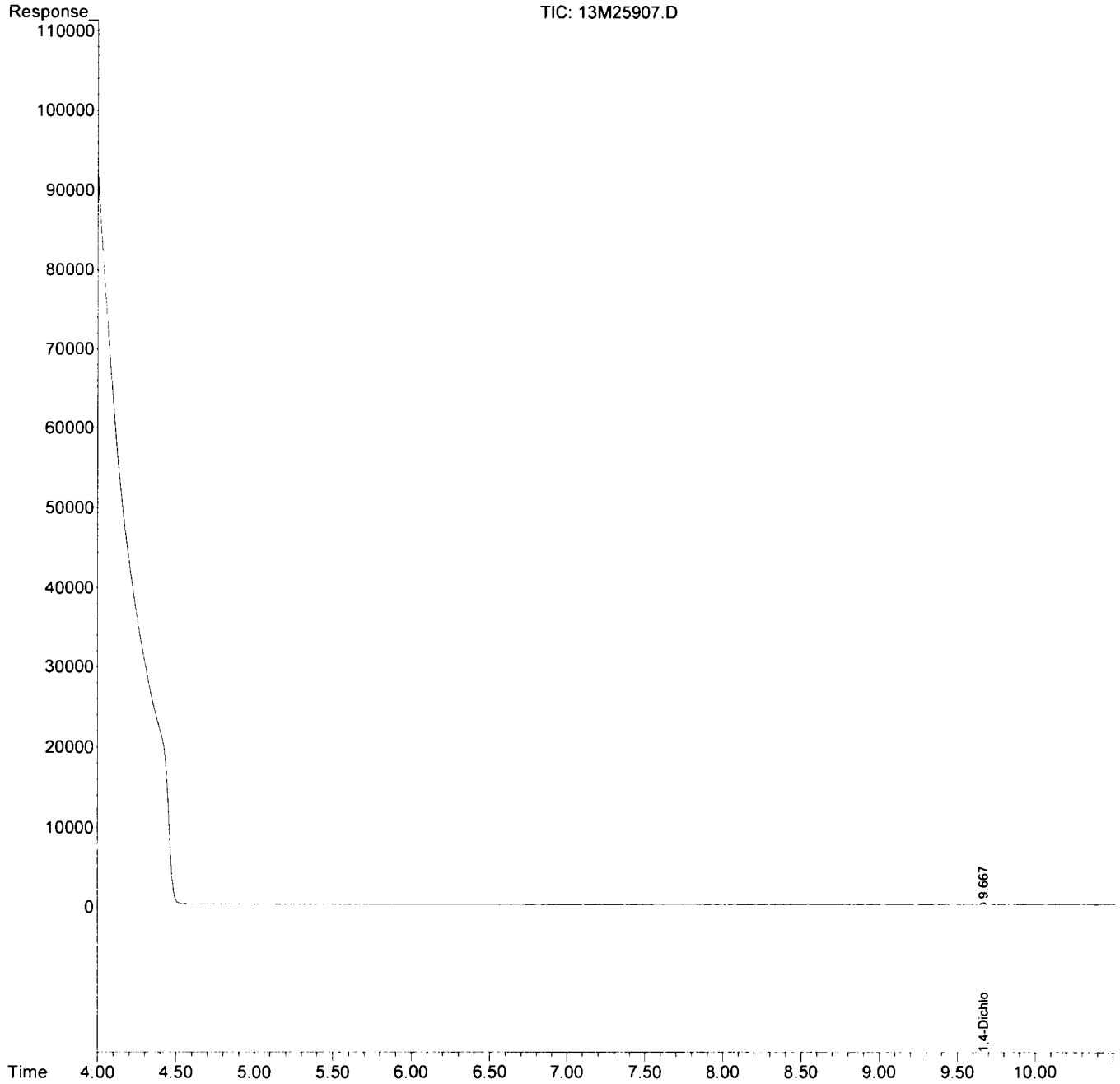
	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.667f	5013	24.567		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25907.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2022 00:32
Operator : WP
Sample : AD33915-004
Misc : M,MEXT!3
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 18 00:46:50 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33915-005
Client Id: SB-67SS (4')
Data File: 13M25908.D
Analysis Date: 10/18/22 00:47
Date Rec/Extracted: 10/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.12g:10ml
Final Vol: NA
Dilution: 97.7
Solids: 84

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**29**	**79**				

Worksheet #: 662768 *Total Target Concentration* 79 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25908.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2022 00:47
Operator : WP
Sample : AD33915-005
Misc : M,MEXT!3
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 10:57:36 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.672f	6203	30.399		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	9.574	152839	677.893	ug/L	m

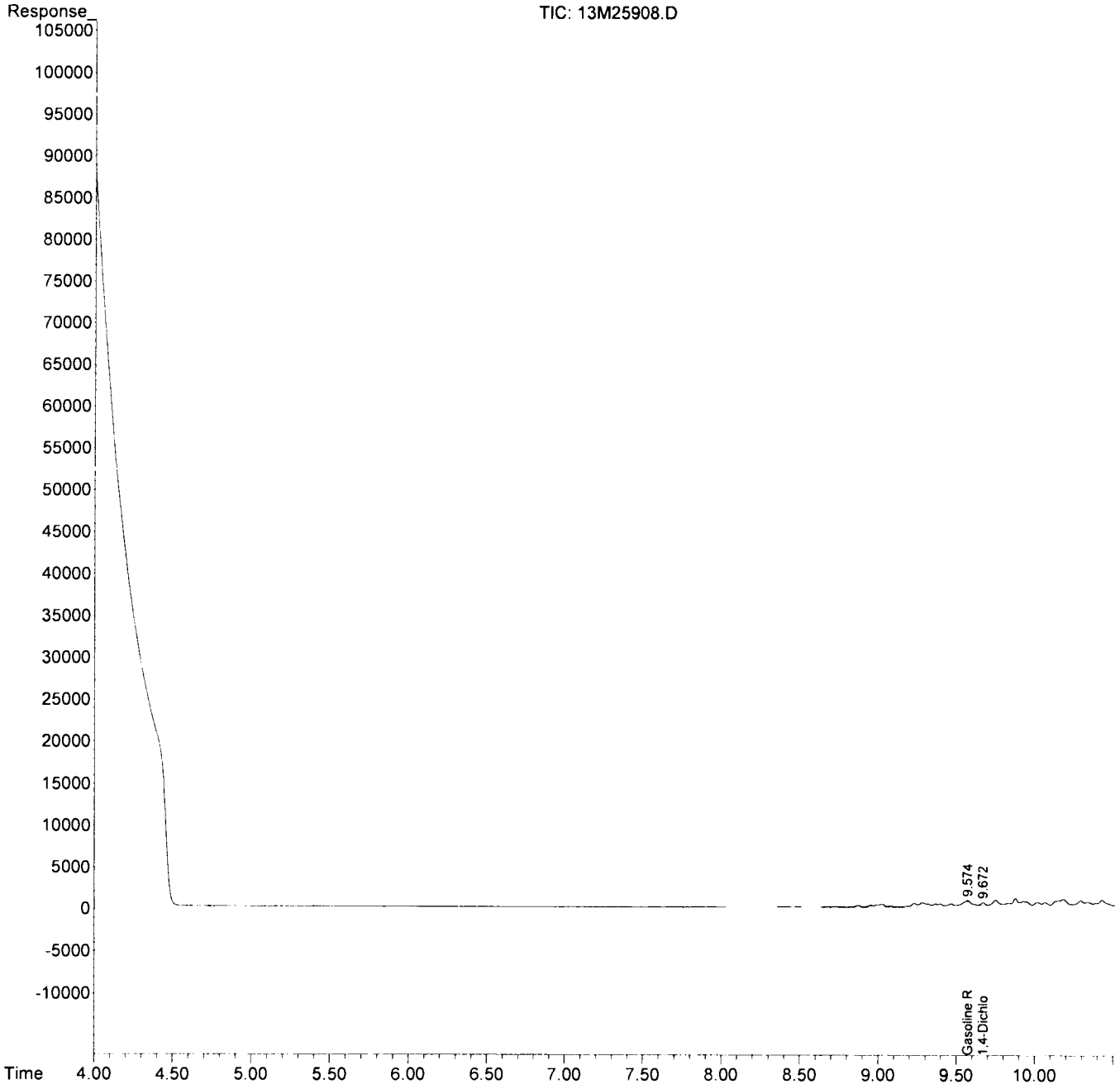
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25908.D
Signal(s) : FID1A.CH
Acq On : 18 Oct 2022 00:47
Operator : WP
Sample : AD33915-005
Misc : M,MEXT!3
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 10:57:36 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33915-006
Client Id: SB-19SS (4-6)
Data File: 13M25941.D
Analysis Date: 10/20/22 00:28
Date Rec/Extracted: 10/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.99g:10ml
Final Vol: NA
Dilution: 83.5
Solids: 85

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 662768

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-19-22\
Data File : 13M25941.D
Signal(s) : FID1A.CH
Acq On : 20 Oct 2022 00:28
Operator : WP
Sample : AD33915-006
Misc : M,MEXT!2
ALS Vial : 57 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 16:18:09 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.671f	4296	21.055		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	d

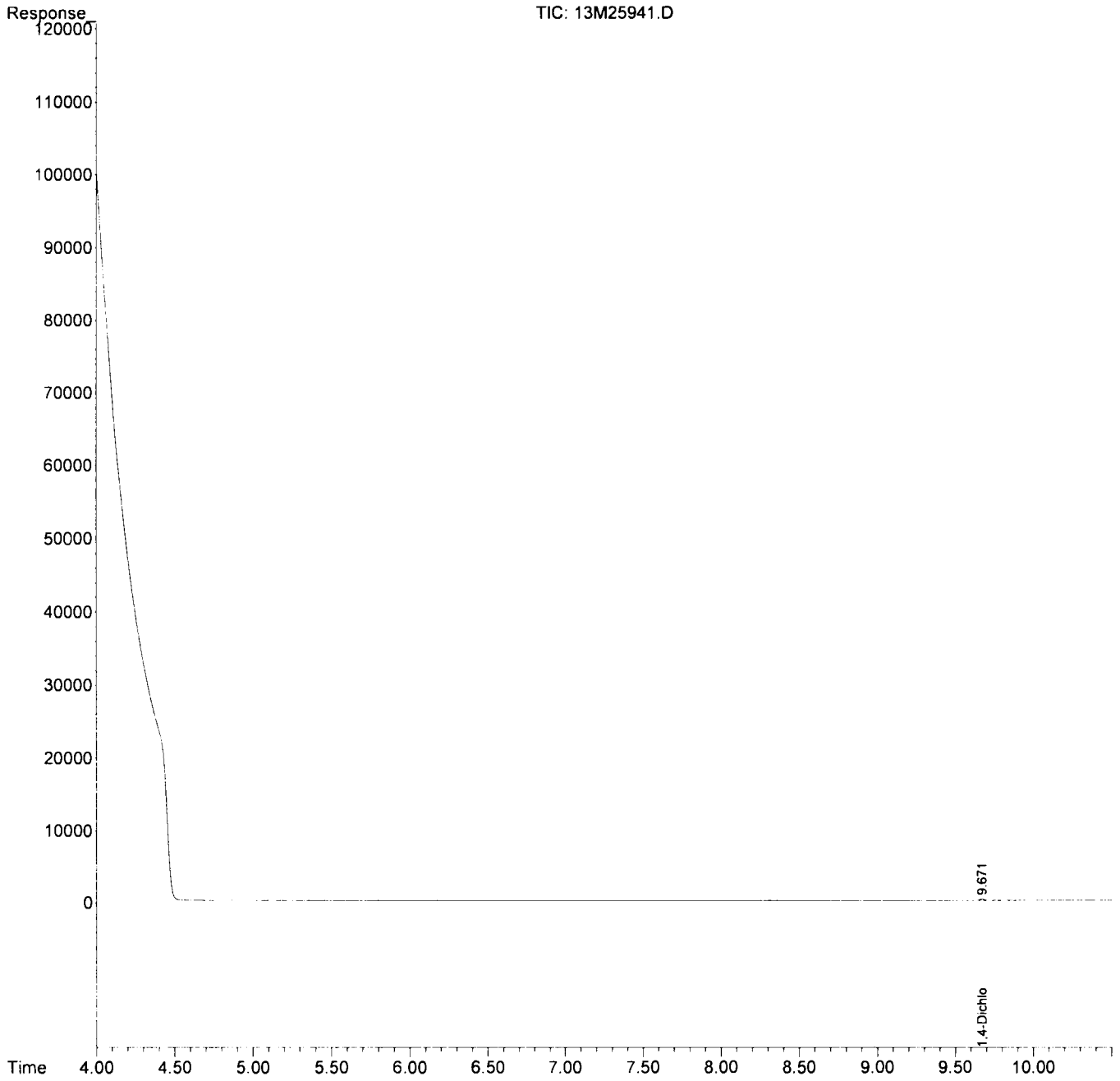
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-19-22\
Data File : 13M25941.D
Signal(s) : FID1A.CH
Acq On : 20 Oct 2022 00:28
Operator : WP
Sample : AD33915-006
Misc : M,MEXT!2
ALS Vial : 57 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 16:18:09 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M25884.D
Analysis Date: 10/17/22 17:58
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 662768

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25884.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 17:58
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 18:11:33 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.680	5885	28.840		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

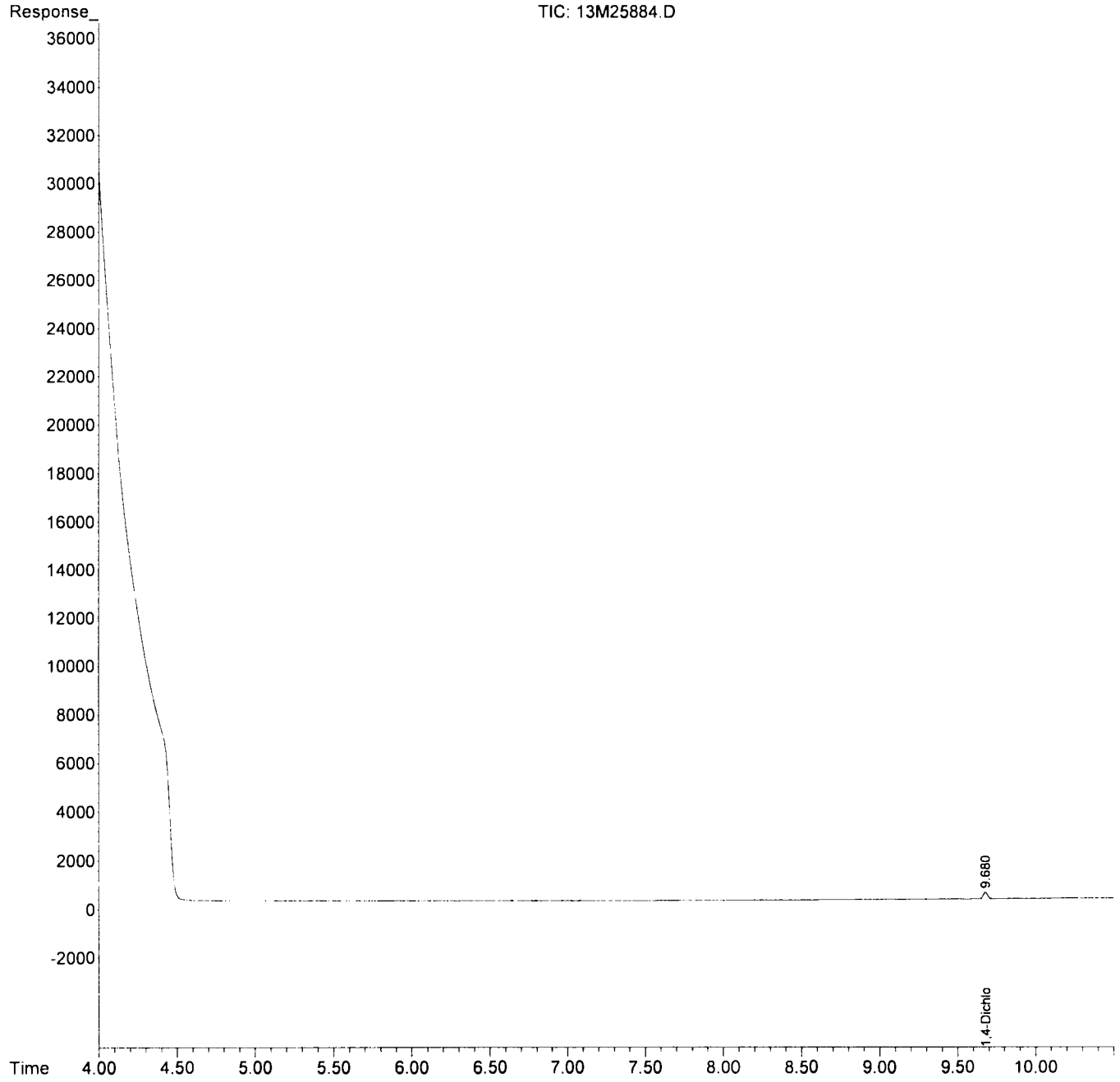
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25884.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 17:58
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 18:11:33 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M25917.D
Analysis Date: 10/19/22 17:53
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 662768

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-19-22\
Data File : 13M25917.D
Signal(s) : FID1A.CH
Acq On : 19 Oct 2022 17:53
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 19 18:10:00 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.675f	5166	25.317		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

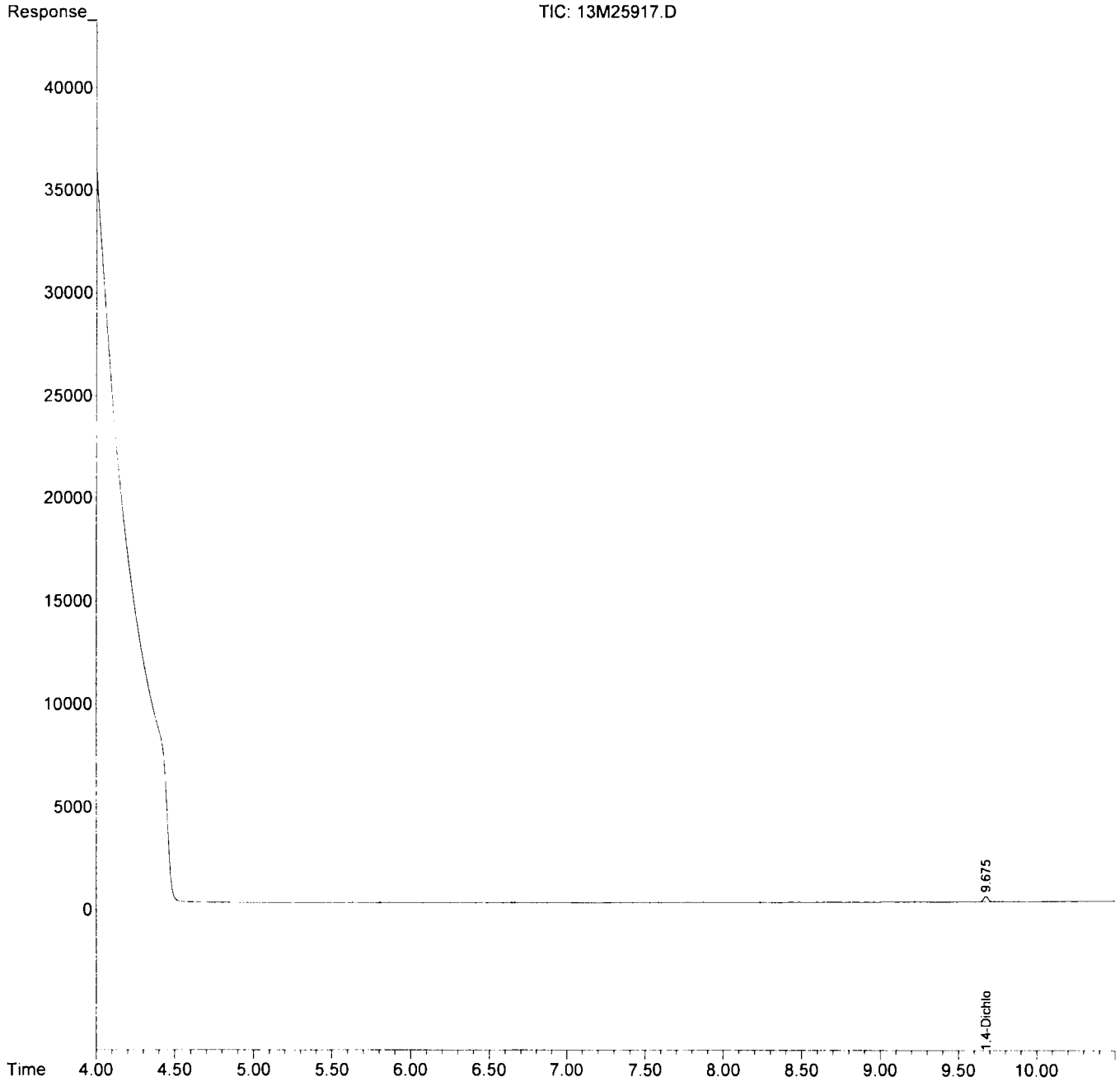
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-19-22\
Data File : 13M25917.D
Signal(s) : FID1A.CH
Acq On : 19 Oct 2022 17:53
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 33 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 19 18:10:00 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M25884.D	DAILY BLANK	M	10/17/22 17:58	1		96					
13M25917.D	DAILY BLANK	M	10/19/22 17:53	1		84					
13M25904.D	AD33915-001	M	10/17/22 23:45	1		80					
13M25905.D	AD33915-002	M	10/18/22 00:00	1		91					
13M25906.D	AD33915-003	M	10/18/22 00:17	1		77					
13M25907.D	AD33915-004	M	10/18/22 00:32	1		82					
13M25908.D	AD33915-005	M	10/18/22 00:47	1		101					
13M25941.D	AD33915-006	M	10/20/22 00:28	1		70					
13M25885.D	AD33806-004	M	10/17/22 18:18	1		68					
13M25888.D	AD33806-004(MS)	M	10/17/22 19:08	1		95					
13M25889.D	AD33806-004(MSD)	M	10/17/22 19:23	1		91					
13M25891.D	MBS105010	M	10/17/22 20:05	1		99					
13M25918.D	AD33983-002	M	10/19/22 18:11	1		90					
13M25919.D	MBS105036	M	10/19/22 18:26	1		98					
13M25920.D	AD33983-002(MS)	M	10/19/22 18:41	1		114					
13M25921.D	AD33983-002(MSD)	M	10/19/22 18:57	1		91					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25891.D	MBS105010	10/17/2022 8:05:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2193.68**	**0**	**2000**	**110**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25888.D	AD33806-004(MS)	10/17/2022 7:08:00 PM
Non Spike(If applicable):	13M25885.D	AD33806-004	10/17/2022 6:18:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**3613.4**	**0**	**2000**	**181**	**11**	**181**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25889.D	AD33806-004(MSD)	10/17/2022 7:23:00 PM
Non Spike(If applicable):	13M25885.D	AD33806-004	10/17/2022 6:18:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2324.79**	**0**	**2000**	**116**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25889.D	AD33806-004(MSD)	10/17/2022 7:23:00 PM
Duplicate(If applicable):	13M25888.D	AD33806-004(MS)	10/17/2022 7:08:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**2324.79**	**3613.4**	**43***	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105036

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25919.D	MBS105036	10/19/2022 6:26:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2054.4**	**0**	**2000**	**103**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105036

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25920.D	AD33983-002(MS)	10/19/2022 6:41:00 PM
Non Spike(If applicable):	13M25918.D	AD33983-002	10/19/2022 6:11:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2537.1**	**0**	**2000**	**127**	**11**	**181**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25921.D	AD33983-002(MSD)	10/19/2022 6:57:00 PM
Non Spike(If applicable):	13M25918.D	AD33983-002	10/19/2022 6:11:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2230.03**	**0**	**2000**	**112**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105036

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25921.D	AD33983-002(MSD)	10/19/2022 6:57:00 PM
Duplicate(If applicable):	13M25920.D	AD33983-002(MS)	10/19/2022 6:41:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**2230.03**	**2537.1**	**13**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M25884.D
Matrix: Methanol

Blank Analysis Date: 10/17/22 17:58
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33915-001	13M25904.D	10/17/22 23:45
AD33915-002	13M25905.D	10/18/22 00:00
AD33915-003	13M25906.D	10/18/22 00:17
AD33915-004	13M25907.D	10/18/22 00:32
AD33915-005	13M25908.D	10/18/22 00:47
AD33806-004(MS)	13M25888.D	10/17/22 19:08
AD33806-004	13M25885.D	10/17/22 18:18
MBS105010	13M25891.D	10/17/22 20:05
AD33806-004(MSD	13M25889.D	10/17/22 19:23

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M25917.D
Matrix: Methanol

Blank Analysis Date: 10/19/22 17:53
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33915-006	13M25941.D	10/20/22 00:28
AD33983-002(MSD	13M25921.D	10/19/22 18:57
AD33983-002(MS)	13M25920.D	10/19/22 18:41
MBS105036	13M25919.D	10/19/22 18:26
AD33983-002	13M25918.D	10/19/22 18:11

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M25297.D	2000	07/20/22 09:07	Aqueous					
13M25302.D	CAL @ 250 PPB	07/20/22 11:20	Aqueous	13M2530	9.7810	0.2889		
13M25303.D	CAL @ 500 PPB	07/20/22 11:36	Aqueous	13M2530	9.7872	0.2256		
13M25304.D	CAL @ 750 PPB	07/20/22 11:53	Aqueous	13M2530	9.8025	0.0694		
13M25305.D	CAL @ 1000 PPB	07/20/22 12:09	Aqueous	13M2530	9.8046	0.0479		
13M25306.D	CAL @ 1500 PPB	07/20/22 12:26	Aqueous	13M2530	9.8262	0.1721		
13M25307.D	CAL @ 2000 PPB	07/20/22 12:42	Aqueous	13M2530	9.8004	0.0908		
13M25308.D	CAL @ 4000 PPB	07/20/22 12:59	Aqueous	13M2530	9.8093	0		
13M25311.D	ICV	07/20/22 13:49	Aqueous	13M2530	9.8304	0.2149		
13M25312.D	2000 PPB	07/20/22 14:07	Aqueous	13M2530	9.8252	0.162		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M25881.D	CAL @ 2000 PPB	10/17/22 17:12	Aqueous	13M2588	9.6937	0		
13M25884.D	DAILY BLANK	10/17/22 17:58	Methanol	13M2588	9.6796	0.1456		
13M25885.D	AD33806-004	10/17/22 18:18	Methanol	13M2588	9.6871	0.0681		
13M25886.D	AD33806-003	10/17/22 18:33	Methanol	13M2588	9.6750	0.1931		
13M25887.D	AD33806-006	10/17/22 18:48	Methanol	13M2588	9.7328	0.4025		
13M25888.D	AD33806-004(MS)	10/17/22 19:08	Methanol	13M2588	9.6840	0.1001		
13M25889.D	AD33806-004(MSD)	10/17/22 19:23	Methanol	13M2588	9.6724	0.22		
13M25890.D	AD33806-006(80uL)	10/17/22 19:38	Methanol	13M2588	9.7300	0.3738		
13M25891.D	MBS105010	10/17/22 20:05	Methanol	13M2588	9.6813	0.128		
13M25892.D	MBS105011	10/17/22 20:28	Methanol	13M2588	0.0000	200		
13M25893.D	BLK	10/17/22 20:46	Aqueous	13M2588	0.0000	200		
13M25894.D	AD33808-001	10/17/22 21:04	Methanol	13M2588	9.6648	0.2986		
13M25895.D	AD33808-002	10/17/22 21:22	Methanol	13M2588	9.7538	0.6181		
13M25896.D	AD33808-003	10/17/22 21:41	Methanol	13M2588	9.6708	0.2365		
13M25897.D	AD33808-004	10/17/22 21:57	Methanol	13M2588	9.6646	0.3006		
13M25898.D	AD33808-005	10/17/22 22:12	Methanol	13M2588	9.6629	0.3182		
13M25899.D	AD33892-001	10/17/22 22:27	Methanol	13M2588	9.6646	0.3006		
13M25900.D	AD33892-002	10/17/22 22:43	Methanol	13M2588	9.6758	0.1848		
13M25901.D	AD33894-002	10/17/22 22:58	Methanol	13M2588	9.6699	0.2458		
13M25902.D	AD33894-004	10/17/22 23:14	Methanol	13M2588	9.6733	0.2107		
13M25903.D	AD33902-002	10/17/22 23:30	Methanol	13M2588	9.6721	0.2231		
13M25904.D	AD33915-001	10/17/22 23:45	Methanol	13M2588	9.6683	0.2624		
13M25905.D	AD33915-002	10/18/22 00:00	Methanol	13M2588	9.6675	0.2706		
13M25906.D	AD33915-003	10/18/22 00:17	Methanol	13M2588	9.6704	0.2407		
13M25907.D	AD33915-004	10/18/22 00:32	Methanol	13M2588	9.6671	0.2748		
13M25908.D	AD33915-005	10/18/22 00:47	Methanol	13M2588	9.6717	0.2272		
13M25909.D	CAL @ 2000 PPB	10/18/22 01:02	Aqueous	13M2588	9.6704	0.2407		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M25915.D	CAL @ 2000 PPB	10/19/22 17:21	Aqueous	13M2591	9.6813	0		
13M25917.D	DAILY BLANK	10/19/22 17:53	Methanol	13M2591	9.6746	0.0692		
13M25918.D	AD33983-002	10/19/22 18:11	Methanol	13M2591	9.6747	0.0682		
13M25919.D	MBS105036	10/19/22 18:26	Methanol	13M2591	9.6774	0.0403		
13M25920.D	AD33983-002(MS)	10/19/22 18:41	Methanol	13M2591	9.6776	0.0382		
13M25921.D	AD33983-002(MSD)	10/19/22 18:57	Methanol	13M2591	9.6732	0.0837		
13M25922.D	BLK	10/19/22 19:12	Aqueous	13M2591	0.0000	200		
13M25923.D	AD33983-004	10/19/22 19:27	Methanol	13M2591	9.6725	0.0909		
13M25924.D	AD33983-006	10/19/22 19:44	Methanol	13M2591	9.6729	0.0868		
13M25925.D	AD33983-008	10/19/22 20:06	Methanol	13M2591	9.6798	0.0155		
13M25926.D	AD33983-010	10/19/22 20:21	Methanol	13M2591	9.6721	0.0951		
13M25927.D	AD33983-012	10/19/22 20:37	Methanol	13M2591	9.6702	0.1147		
13M25928.D	AD33983-014	10/19/22 20:52	Methanol	13M2591	9.6675	0.1427		
13M25929.D	AD33983-016	10/19/22 21:08	Methanol	13M2591	9.6696	0.1209		
13M25930.D	AD33983-018	10/19/22 21:28	Methanol	13M2591	9.6788	0.0258		
13M25931.D	AD33983-020	10/19/22 21:45	Methanol	13M2591	9.6754	0.061		
13M25932.D	AD33983-022	10/19/22 22:00	Methanol	13M2591	9.6701	0.1158		
13M25933.D	AD33983-024	10/19/22 22:16	Methanol	13M2591	9.6667	0.1509		
13M25934.D	AD33983-026	10/19/22 22:31	Methanol	13M2591	9.6654	0.1644		
13M25935.D	AD33983-028	10/19/22 22:48	Methanol	13M2591	9.6675	0.1427		
13M25936.D	AD33983-030	10/19/22 23:03	Methanol	13M2591	9.6621	0.1985		
13M25937.D	AD33998-001	10/19/22 23:21	Methanol	13M2591	9.6792	0.0217		
13M25938.D	AD33998-003	10/19/22 23:38	Methanol	13M2591	9.6776	0.0382		
13M25939.D	AD33998-005	10/19/22 23:56	Methanol	13M2591	9.6750	0.0651		
13M25940.D	AD33998-007	10/20/22 00:12	Methanol	13M2591	9.6729	0.0868		
13M25941.D	AD33915-006	10/20/22 00:28	Methanol	13M2591	9.6707	0.1096		
13M25942.D	CAL @ 2000 PPB	10/20/22 00:51	Aqueous	13M2591	9.6833	0.0207		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101501 0250

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M25308.D	CAL @ 4000 PPB	07/20/22 12:59	2	13M25307.D	CAL @ 2000 PPB	07/20/22 12:42
3	13M25306.D	CAL @ 1500 PPB	07/20/22 12:26	4	13M25305.D	CAL @ 1000 PPB	07/20/22 12:09
5	13M25304.D	CAL @ 750 PPB	07/20/22 11:53	6	13M25303.D	CAL @ 500 PPB	07/20/22 11:36
7	13M25302.D	CAL @ 250 PPB	07/20/22 11:20				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	0.0268	0.0211	0.0204	0.0204	0.0194	0.0172	0.0172	----	0.0204	9.73	-1	-1	16	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Qua	0.0003	0.0002	0.0003	0.0003	0.0002	0.0001	0.0001	----	0.000260	5.61	0.997	0.997	31	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1.2.4-Trimethylbenzene	1	0	Avg	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003	0.0003	----	0.000370	9.52	0.996	0.996	10	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0200	0.0200	0.0207	0.0214	0.0232	0.0236	0.0285	----	0.0225	8.73	1.00	1.00	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 35.10 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M25881.D			13M25909.D			13M25915.D			13M25942.D								
Method:			8015			8015			8015			8015								
Calibration Name:			CAL @ 2000 PPB			CAL @ 2000 PPB			CAL @ 2000 PPB			CAL @ 2000 PPB								
Calibration Date/Time			10/17/22 17:12			10/18/22 01:02			10/19/22 17:21			10/20/22 00:51								
				Conc			Conc			Conc			Conc				Conc				
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff		Conc	Exp	%Diff		
Gasoline Range Orga	20	1	0	2193	2000	9.7	1883	2000	5.9	1912	2000	4.4	1858	2000	7.1						

Flags/Notes: **** - Values outside of limits for this column/run***

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 2101501**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD33915-001	SB-61SS (10')	Soil	1	91	Percent			10/17/22	10/15/22	10/14/22
AD33915-002	SB-61SS (2')	Soil	1	90	Percent			10/17/22	10/15/22	10/14/22
AD33915-003	SB-65SS (10')	Soil	1	86	Percent			10/17/22	10/15/22	10/14/22
AD33915-004	SB-66SS (10')	Soil	1	89	Percent			10/17/22	10/15/22	10/14/22
AD33915-005	SB-67SS (4')	Soil	1	84	Percent			10/17/22	10/15/22	10/14/22
AD33915-006	SB-19SS (4-6)	Soil/Terracore	1	85	Percent			10/17/22	10/15/22	10/14/22

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-13970

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD33910-003	97	97.29501	Percent	1.28	13.11	12.79	10/17/22	nbirmingham	0.14	5
Sample	AD33910-002	78	78.08587	Percent	1.34	23.70	18.80	10/17/22	nbirmingham		
Sample	AD33910-003	97	97.43165	Percent	1.32	13.39	13.07	10/17/22	nbirmingham		
Sample	AD33914-001	89	89.19112	Percent	1.32	15.29	13.78	10/17/22	nbirmingham		
Sample	AD33914-002	77	76.73196	Percent	1.33	22.26	17.39	10/17/22	nbirmingham		
Sample	AD33914-003	92	91.74009	Percent	1.33	10.41	9.66	10/17/22	nbirmingham		
Sample	AD33914-004	96	95.83728	Percent	1.33	11.90	11.46	10/17/22	nbirmingham		
Sample	AD33914-005	82	81.60186	Percent	1.32	18.55	15.38	10/17/22	nbirmingham		
Sample	AD33914-006	77	76.55622	Percent	1.32	21.24	16.57	10/17/22	nbirmingham		
Sample	AD33915-001	91	91.06449	Percent	1.32	14.19	13.04	10/17/22	nbirmingham		
Sample	AD33915-002	90	90.40179	Percent	1.32	14.76	13.46	10/17/22	nbirmingham		
Sample	AD33915-003	86	86.05641	Percent	1.32	20.11	17.49	10/17/22	nbirmingham		
Sample	AD33915-004	89	88.99172	Percent	1.33	21.86	19.59	10/17/22	nbirmingham		
Sample	AD33915-005	84	84.26724	Percent	1.33	10.61	9.16	10/17/22	nbirmingham		
Sample	AD33915-006	85	84.68551	Percent	1.33	12.30	10.62	10/17/22	nbirmingham		
Sample	AD33922-001	91	91.39013	Percent	1.32	12.47	11.51	10/17/22	nbirmingham		
Sample	AD33922-002	92	92.21453	Percent	1.34	12.90	12.00	10/17/22	nbirmingham		
Sample	AD33922-003	93	92.61186	Percent	1.32	10.93	10.22	10/17/22	nbirmingham		
Sample	AD33922-004	91	91.10963	Percent	1.33	16.29	14.96	10/17/22	nbirmingham		
Sample	AD33922-005	92	91.98575	Percent	1.35	12.58	11.68	10/17/22	nbirmingham		
Sample	AD33922-006	91	91.29555	Percent	1.33	11.21	10.35	10/17/22	nbirmingham		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: WMATA NBG

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei/Jeff Martineau

Received Date: 10/14/2022

Report Date: 11/9/2022

Deliverables: MDE-R

Lab ID: AD33892

Lab Project No: 2101411

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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Form 1 Sample Results

Inorganic Spreadsheet / QC Summary

Sample Summary

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2101411

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD33892-001	SB-21SS(2-4)	Soil/Terracore	10/13/2022	10/14/2022
AD33892-002	SB-22SS(2-4)	Soil/Terracore	10/13/2022	10/14/2022

HC Case Narrative

Client: Intertek-PSI
Project: WMATA NBG

HC Project: 2101411

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in sample 104997 due to possible laboratory contamination.

The Method Blank Spike for batches 104997, 104999 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 104997 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

The MSD RPD for batch 105010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

11/9/22
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2101411

Project: WMATA NBG

Lab#: AD33892-002 **Sample ID: SB-22SS(2-4)**

Analyte	Units	RL	Result	Analytical Method
Methylene chloride	mg/kg	0.0021	0.0073	EPA 8260D
Tetrachloroethene	mg/kg	0.0021	0.0025	EPA 8260D

HC Report of Analysis

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2101411

Sample ID: SB-21SS(2-4)
Lab#: AD33892-001
Matrix: Soil/Terracore

Collection Date: 10/13/2022
Receipt Date: 10/14/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	67	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	113	mg/kg	32	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	67	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1.13	mg/kg	0.0025	ND
1,1,2,2-Tetrachloroethane	1.13	mg/kg	0.0025	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1.13	mg/kg	0.0025	ND
1,1,2-Trichloroethane	1.13	mg/kg	0.0025	ND
1,1-Dichloroethane	1.13	mg/kg	0.0025	ND
1,1-Dichloroethene	1.13	mg/kg	0.0025	ND
1,2,3-Trichlorobenzene	1.13	mg/kg	0.0025	ND
1,2,4-Trichlorobenzene	1.13	mg/kg	0.0025	ND
1,2-Dibromo-3-chloropropane	1.13	mg/kg	0.0025	ND
1,2-Dibromoethane	1.13	mg/kg	0.00083	ND
1,2-Dichlorobenzene	1.13	mg/kg	0.0025	ND
1,2-Dichloroethane	1.13	mg/kg	0.0025	ND
1,2-Dichloropropane	1.13	mg/kg	0.0025	ND
1,3-Dichlorobenzene	1.13	mg/kg	0.0025	ND
1,4-Dichlorobenzene	1.13	mg/kg	0.0025	ND
1,4-Dioxane	1.13	mg/kg	0.13	ND
2-Butanone	1.13	mg/kg	0.0025	ND
2-Hexanone	1.13	mg/kg	0.0025	ND
4-Methyl-2-pentanone	1.13	mg/kg	0.0025	ND
Acetone	1.13	mg/kg	0.013	ND
Benzene	1.13	mg/kg	0.0013	ND
Bromochloromethane	1.13	mg/kg	0.0025	ND
Bromodichloromethane	1.13	mg/kg	0.0025	ND
Bromoform	1.13	mg/kg	0.0025	ND
Bromomethane	1.13	mg/kg	0.0025	ND
Carbon disulfide	1.13	mg/kg	0.0025	ND
Carbon tetrachloride	1.13	mg/kg	0.0025	ND
Chlorobenzene	1.13	mg/kg	0.0025	ND
Chloroethane	1.13	mg/kg	0.0025	ND
Chloroform	1.13	mg/kg	0.0025	ND
Chloromethane	1.13	mg/kg	0.0025	ND
cis-1,2-Dichloroethene	1.13	mg/kg	0.0025	ND

Sample ID: SB-21SS(2-4) **Collection Date:** 10/13/2022
Lab#: AD33892-001 **Receipt Date:** 10/14/2022
Matrix: Soil/Terracore

cis-1,3-Dichloropropene	1.13	mg/kg	0.0025	ND
Cyclohexane	1.13	mg/kg	0.0025	ND
Dibromochloromethane	1.13	mg/kg	0.0025	ND
Dichlorodifluoromethane	1.13	mg/kg	0.0025	ND
Ethylbenzene	1.13	mg/kg	0.0013	ND
Isopropylbenzene	1.13	mg/kg	0.0013	ND
m&p-Xylenes	1.13	mg/kg	0.0019	ND
Methyl Acetate	1.13	mg/kg	0.0025	ND
Methylcyclohexane	1.13	mg/kg	0.0025	ND
Methylene chloride	1.13	mg/kg	0.0025	ND
Methyl-t-butyl ether	1.13	mg/kg	0.0013	ND
o-Xylene	1.13	mg/kg	0.0013	ND
Styrene	1.13	mg/kg	0.0025	ND
Tetrachloroethene	1.13	mg/kg	0.0025	ND
Toluene	1.13	mg/kg	0.0013	ND
trans-1,2-Dichloroethene	1.13	mg/kg	0.0025	ND
trans-1,3-Dichloropropene	1.13	mg/kg	0.0025	ND
Trichloroethene	1.13	mg/kg	0.0025	ND
Trichlorofluoromethane	1.13	mg/kg	0.0025	ND
Vinyl chloride	1.13	mg/kg	0.0025	ND
Xylenes (Total)	1.13	mg/kg	0.0013	ND

Sample ID: SB-22SS(2-4) **Collection Date:** 10/13/2022
Lab#: AD33892-002 **Receipt Date:** 10/14/2022
Matrix: Soil/Terracore

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		89

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	67	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	84.5	mg/kg	24	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	67	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.914	mg/kg	0.0021	ND
1,1,2,2-Tetrachloroethane	0.914	mg/kg	0.0021	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.914	mg/kg	0.0021	ND
1,1,2-Trichloroethane	0.914	mg/kg	0.0021	ND
1,1-Dichloroethane	0.914	mg/kg	0.0021	ND
1,1-Dichloroethene	0.914	mg/kg	0.0021	ND
1,2,3-Trichlorobenzene	0.914	mg/kg	0.0021	ND
1,2,4-Trichlorobenzene	0.914	mg/kg	0.0021	ND
1,2-Dibromo-3-chloropropane	0.914	mg/kg	0.0021	ND
1,2-Dibromoethane	0.914	mg/kg	0.00067	ND
1,2-Dichlorobenzene	0.914	mg/kg	0.0021	ND
1,2-Dichloroethane	0.914	mg/kg	0.0021	ND
1,2-Dichloropropane	0.914	mg/kg	0.0021	ND
1,3-Dichlorobenzene	0.914	mg/kg	0.0021	ND
1,4-Dichlorobenzene	0.914	mg/kg	0.0021	ND
1,4-Dioxane	0.914	mg/kg	0.10	ND
2-Butanone	0.914	mg/kg	0.0021	ND
2-Hexanone	0.914	mg/kg	0.0021	ND
4-Methyl-2-pentanone	0.914	mg/kg	0.0021	ND
Acetone	0.914	mg/kg	0.010	ND
Benzene	0.914	mg/kg	0.0010	ND
Bromochloromethane	0.914	mg/kg	0.0021	ND
Bromodichloromethane	0.914	mg/kg	0.0021	ND
Bromoform	0.914	mg/kg	0.0021	ND
Bromomethane	0.914	mg/kg	0.0021	ND
Carbon disulfide	0.914	mg/kg	0.0021	ND
Carbon tetrachloride	0.914	mg/kg	0.0021	ND
Chlorobenzene	0.914	mg/kg	0.0021	ND
Chloroethane	0.914	mg/kg	0.0021	ND
Chloroform	0.914	mg/kg	0.0021	ND
Chloromethane	0.914	mg/kg	0.0021	ND
cis-1,2-Dichloroethene	0.914	mg/kg	0.0021	ND
cis-1,3-Dichloropropene	0.914	mg/kg	0.0021	ND
Cyclohexane	0.914	mg/kg	0.0021	ND
Dibromochloromethane	0.914	mg/kg	0.0021	ND
Dichlorodifluoromethane	0.914	mg/kg	0.0021	ND
Ethylbenzene	0.914	mg/kg	0.0010	ND
Isopropylbenzene	0.914	mg/kg	0.0010	ND
m&p-Xylenes	0.914	mg/kg	0.0015	ND

Sample ID:	**SB-22SS(2-4)**			**Collection Date:**	**10/13/2022**
Lab#:	**AD33892-002**			**Receipt Date:**	**10/14/2022**
Matrix:	**Soil/Terracore**				

Methyl Acetate	0.914	mg/kg	0.0021	ND
Methylcyclohexane	0.914	mg/kg	0.0021	ND
Methylene chloride	**0.914**	**mg/kg**	**0.0021**	**0.0073**
Methyl-t-butyl ether	0.914	mg/kg	0.0010	ND
o-Xylene	0.914	mg/kg	0.0010	ND
Styrene	0.914	mg/kg	0.0021	ND
Tetrachloroethene	**0.914**	**mg/kg**	**0.0021**	**0.0025**
Toluene	0.914	mg/kg	0.0010	ND
trans-1,2-Dichloroethene	0.914	mg/kg	0.0021	ND
trans-1,3-Dichloropropene	0.914	mg/kg	0.0021	ND
Trichloroethene	0.914	mg/kg	0.0021	ND
Trichlorofluoromethane	0.914	mg/kg	0.0021	ND
Vinyl chloride	0.914	mg/kg	0.0021	ND
Xylenes (Total)	0.914	mg/kg	0.0010	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2101411

Lab#: AD33892-001 **Sample ID: SB-21SS(2-4)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/14/22 00:00	mbirmingham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/21/22 10:50	lynda	EPA 8015D	10/21/22 17:42	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/17/22 22:27	WP
TPH 8015D (C8-C44)	Mod. Shaker	10/21/22 10:50	lynda	EPA 8015D	10/21/22 17:42	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/14/22 20:55	SG

Lab#: AD33892-002 **Sample ID: SB-22SS(2-4)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/14/22 00:00	mbirmingham
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/21/22 10:50	lynda	EPA 8015D	10/21/22 18:59	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/17/22 22:43	WP
TPH 8015D (C8-C44)	Mod. Shaker	10/21/22 10:50	lynda	EPA 8015D	10/21/22 18:59	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/14/22 20:33	SG

Chain of Custody

2101411 0011

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46, STE D and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787

Service Center: 137-C Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 2101411

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlek
Address: 2930 Eskridge Rd, Fairfax, VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Jeff Martineau
1d) Send Report to: Jeff + Rinzo

Project Information

2a) Project: WMATA - NBG
2b) Project Mgr: Jeff Martineau
2c) Project Location (City/State): Washington, DC
2d) Quote/PO # (If Applicable): 6444100

FOR LAB USE ONLY

Batch # AD33582

===> Check If Contingent ===>

<=== Check If Contingent <===

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type Composite (C)	Sample Type Grab (G)	7) Analysis: 8260 VOC	7) Analysis: TPH-DRO/ORO GRO	8) # of Bottles None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: DI-H2O	9) Comments
001	SB-21SS (2-4)	S	10/13/22	1115		G	X	X	1	1						2	
002	SB-22SS (2-4)	S	10/13/22	1400		G	X	X	1	1						2	

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	10/14	11:30 ~~13:30~~
[signature]	[signature]	10/14	11:30

11) Sampler (print name): RINZO. R Date: 10-13-22

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3.1

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD33892 Entered By: srobles

Date Entered 10/14/2022 1:38:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3.1
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD33892-001	10/14/22 11:30	SROB	0	M	Received
AD33892-001	10/14/22 13:37	SROB	0	M	Login
AD33892-001	10/14/22 17:10	R12	1	A	NONE
AD33892-001	10/14/22 18:30	MB	1	A	SOLIDS
AD33892-001	10/14/22 18:31	R12	1	A	NONE
AD33892-001	10/21/22 10:05	LV	1	A	TPH
AD33892-001	10/21/22 10:50	R12	1	A	NONE
AD33892-001	10/14/22 17:51	F18	2	A	NONE
AD33892-001	10/14/22 19:42	WP	2	A	VOA
AD33892-001	10/14/22 17:51	F18	3	A	NONE
AD33892-001	10/14/22 17:50	SG	4	M	VOA
AD33892-001	10/14/22 17:52	R31	4	A	NONE
AD33892-001	10/17/22 18:00	WP	4	M	GRO
AD33892-001	10/18/22 02:21	R31	4	A	NONE
AD33892-002	10/14/22 11:30	SROB	0	M	Received
AD33892-002	10/14/22 13:37	SROB	0	M	Login
AD33892-002	10/14/22 17:10	R12	1	A	NONE
AD33892-002	10/14/22 18:30	MB	1	A	SOLIDS
AD33892-002	10/14/22 18:31	R12	1	A	NONE
AD33892-002	10/21/22 10:05	LV	1	A	TPH
AD33892-002	10/21/22 10:50	R12	1	A	NONE
AD33892-002	10/14/22 17:51	F18	2	A	NONE
AD33892-002	10/14/22 19:42	WP	2	A	VOA
AD33892-002	10/14/22 17:51	F18	3	A	NONE
AD33892-002	10/14/22 17:50	SG	4	M	VOA
AD33892-002	10/14/22 17:52	R31	4	A	NONE
AD33892-002	10/17/22 18:00	WP	4	M	GRO
AD33892-002	10/18/22 02:21	R31	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD33892-001
Client Id: SB-21SS(2-4)
Data File: 6M160509.D
Analysis Date: 10/14/22 20:55
Date Rec/Extracted: 10/14/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 4.41g
Final Vol: NA
Dilution: 1.13
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0025	U	56-23-5	Carbon Tetrachloride	0.0025	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0025	U	108-90-7	Chlorobenzene	0.0025	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0025	U	75-00-3	Chloroethane	0.0025	U
79-00-5	1,1,2-Trichloroethane	0.0025	U	67-66-3	Chloroform	0.0025	U
75-34-3	1,1-Dichloroethane	0.0025	U	74-87-3	Chloromethane	0.0025	U
75-35-4	1,1-Dichloroethene	0.0025	U	156-59-2	cis-1,2-Dichloroethene	0.0025	U
87-61-6	1,2,3-Trichlorobenzene	0.0025	U	10061-01-5	cis-1,3-Dichloropropene	0.0025	U
120-82-1	1,2,4-Trichlorobenzene	0.0025	U	110-82-7	Cyclohexane	0.0025	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0025	U	124-48-1	Dibromochloromethane	0.0025	U
106-93-4	1,2-Dibromoethane	0.00083	U	75-71-8	Dichlorodifluoromethane	0.0025	U
95-50-1	1,2-Dichlorobenzene	0.0025	U	100-41-4	Ethylbenzene	0.0013	U
107-06-2	1,2-Dichloroethane	0.0025	U	98-82-8	Isopropylbenzene	0.0013	U
78-87-5	1,2-Dichloropropane	0.0025	U	79601-23-1	m&p-Xylenes	0.0019	U
541-73-1	1,3-Dichlorobenzene	0.0025	U	79-20-9	Methyl Acetate	0.0025	U
106-46-7	1,4-Dichlorobenzene	0.0025	U	108-87-2	Methylcyclohexane	0.0025	U
123-91-1	1,4-Dioxane	0.13	U	75-09-2	Methylene Chloride	0.0025	U
78-93-3	2-Butanone	0.0025	U	1634-04-4	Methyl-t-butyl ether	0.0013	U
591-78-6	2-Hexanone	0.0025	U	95-47-6	o-Xylene	0.0013	U
108-10-1	4-Methyl-2-Pentanone	0.0025	U	100-42-5	Styrene	0.0025	U
67-64-1	Acetone	0.013	U	127-18-4	Tetrachloroethene	0.0025	U
71-43-2	Benzene	0.0013	U	108-88-3	Toluene	0.0013	U
74-97-5	Bromochloromethane	0.0025	U	156-60-5	trans-1,2-Dichloroethene	0.0025	U
75-27-4	Bromodichloromethane	0.0025	U	10061-02-6	trans-1,3-Dichloropropene	0.0025	U
75-25-2	Bromoform	0.0025	U	79-01-6	Trichloroethene	0.0025	U
74-83-9	Bromomethane	0.0025	U	75-69-4	Trichlorofluoromethane	0.0025	U
75-15-0	Carbon Disulfide	0.0025	U	75-01-4	Vinyl Chloride	0.0025	U
1330-20-7	Xylenes (Total)	0.0013	U				

Worksheet #: 662634

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

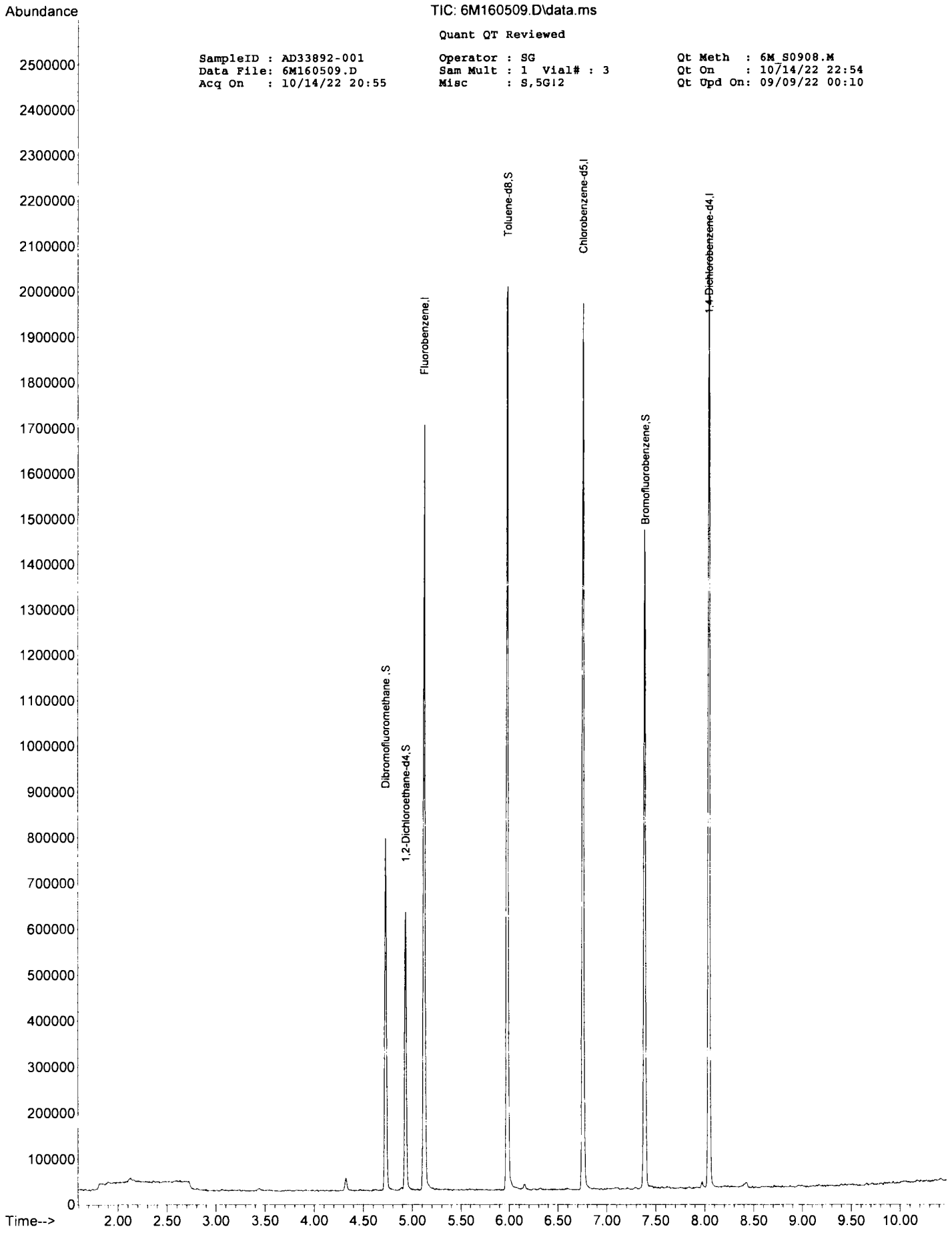
Quantitation Report (QT Reviewed)

SampleID : AD33892-001 Operator : SG Qt Meth : 6M_S0908.M
Data File: 6M160509.D Sam Mult : 1 Vial# : 3 Qt On : 10/14/22 22:54
Acq On : 10/14/22 20:55 Misc : S,5G!2 Qt Upd On: 09/09/22 00:10

Data Path : G:\GcMsData\2022\GCMS_6\Data\10-14-22\
Qt Path : G:\GcMsData\2022\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.123	96	989965	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	827979	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.043	152	447408	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.727	111	298848	30.87	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.90%			
39) 1,2-Dichloroethane-d4	4.934	67	148839	31.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.27%			
66) Toluene-d8	5.983	98	954774	31.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.50%			
76) Bromofluorobenzene	7.391	174	324392	29.65	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.83%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M160509.D\data.ms
Quant QT Reviewed
SampleID : AD33892-001
Data File: 6M160509.D
Acq On : 10/14/22 20:55
Operator : SG
Sam Mult : 1 Vial# : 3
Misc : S,5G12
Qt Meth : 6M_S0908.M
Qt On : 10/14/22 22:54
Qt Upd On: 09/09/22 00:10
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD33892-002
Client Id: SB-22SS(2-4)
Data File: 6M160508.D
Analysis Date: 10/14/22 20:33
Date Rec/Extracted: 10/14/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.47g
Final Vol: NA
Dilution: 0.914
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0021	U	56-23-5	Carbon Tetrachloride	0.0021	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0021	U	108-90-7	Chlorobenzene	0.0021	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0021	U	75-00-3	Chloroethane	0.0021	U
79-00-5	1,1,2-Trichloroethane	0.0021	U	67-66-3	Chloroform	0.0021	U
75-34-3	1,1-Dichloroethane	0.0021	U	74-87-3	Chloromethane	0.0021	U
75-35-4	1,1-Dichloroethene	0.0021	U	156-59-2	cis-1,2-Dichloroethene	0.0021	U
87-61-6	1,2,3-Trichlorobenzene	0.0021	U	10061-01-5	cis-1,3-Dichloropropene	0.0021	U
120-82-1	1,2,4-Trichlorobenzene	0.0021	U	110-82-7	Cyclohexane	0.0021	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0021	U	124-48-1	Dibromochloromethane	0.0021	U
106-93-4	1,2-Dibromoethane	0.00067	U	75-71-8	Dichlorodifluoromethane	0.0021	U
95-50-1	1,2-Dichlorobenzene	0.0021	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0021	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0021	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0021	U	79-20-9	Methyl Acetate	0.0021	U
106-46-7	1,4-Dichlorobenzene	0.0021	U	108-87-2	Methylcyclohexane	0.0021	U
123-91-1	1,4-Dioxane	0.10	U	**75-09-2**	**Methylene Chloride**	**0.0021**	**0.0073**
78-93-3	2-Butanone	0.0021	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0021	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0021	U	100-42-5	Styrene	0.0021	U
67-64-1	Acetone	0.010	U	**127-18-4**	**Tetrachloroethene**	**0.0021**	**0.0025**
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0021	U	156-60-5	trans-1,2-Dichloroethene	0.0021	U
75-27-4	Bromodichloromethane	0.0021	U	10061-02-6	trans-1,3-Dichloropropene	0.0021	U
75-25-2	Bromoform	0.0021	U	79-01-6	Trichloroethene	0.0021	U
74-83-9	Bromomethane	0.0021	U	75-69-4	Trichlorofluoromethane	0.0021	U
75-15-0	Carbon Disulfide	0.0021	U	75-01-4	Vinyl Chloride	0.0021	U
1330-20-7	Xylenes (Total)	0.0010	U				

Worksheet #: 662634

Total Target Concentration 0.0098

ColumnID: ( ) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

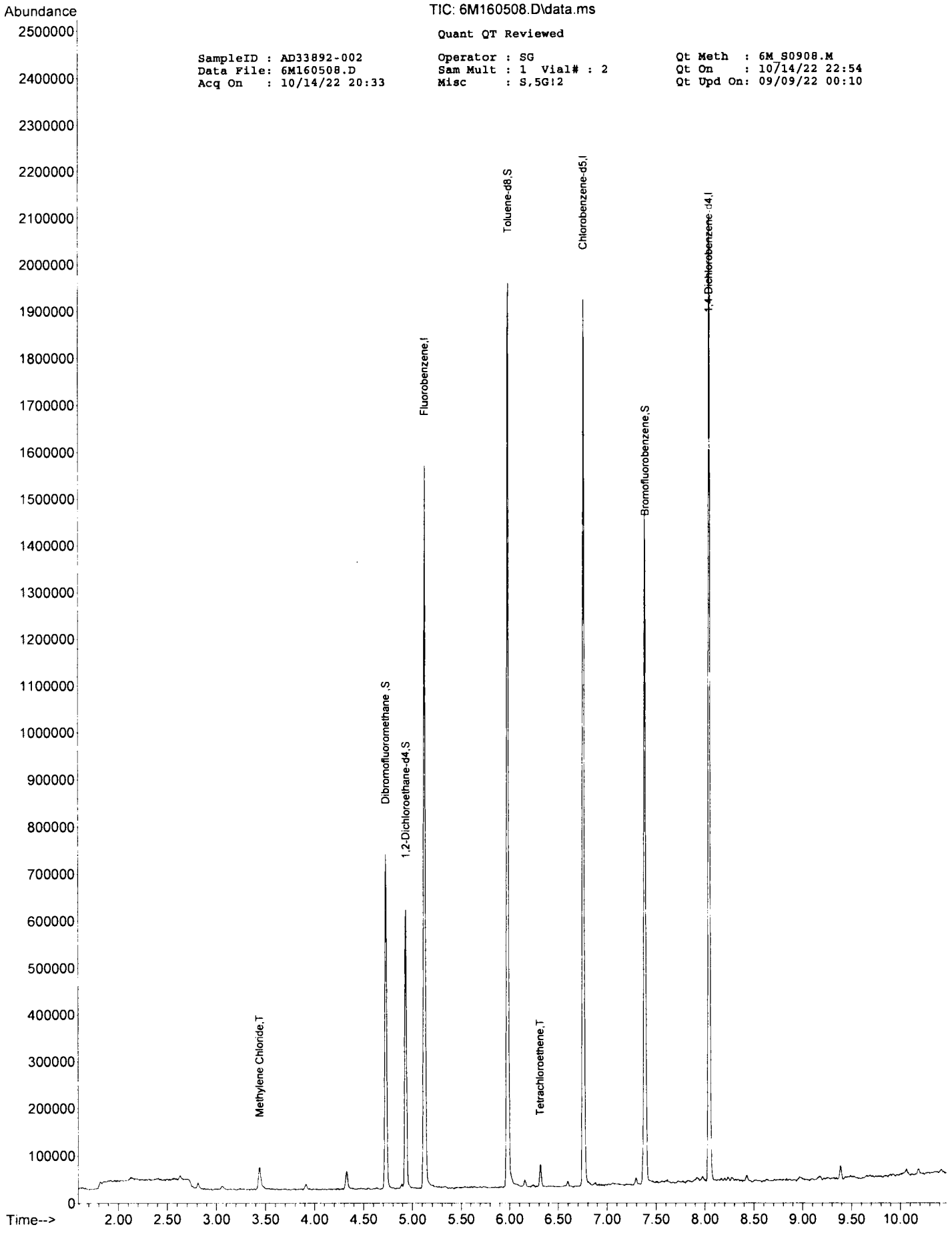
Quantitation Report (QT Reviewed)

SampleID : AD33892-002 Operator : SG Qt Meth : 6M_S0908.M
Data File: 6M160508.D Sam Mult : 1 Vial# : 2 Qt On : 10/14/22 22:54
Acq On : 10/14/22 20:33 Misc : S,5G!2 Qt Upd On: 09/09/22 00:10

Data Path : G:\GcMsData\2022\GCMS_6\Data\10-14-22\
Qt Path : G:\GcMsData\2022\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.123	96	922252	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	799688	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.043	152	437480	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.727	111	273218	30.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.97%			
39) 1,2-Dichloroethane-d4	4.934	67	144071	32.81	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.37%			
66) Toluene-d8	5.983	98	906511	30.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.77%			
76) Bromofluorobenzene	7.391	174	317249	29.65	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.83%			
Target Compounds						Qvalue
15) Methylene Chloride	3.440	84	24155m	7.1393	ug/l	
65) Tetrachloroethene	6.312	164	8055m	2.4390	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M160508.D\data.ms
Quant QT Reviewed
SampleID : AD33892-002
Data File: 6M160508.D
Acq On : 10/14/22 20:33
Operator : SG
Sam Mult : 1 Vial# : 2
Misc : S,5G!2
Qt Meth : 6M_S0908.M
Qt On : 10/14/22 22:54
Qt Upd On: 09/09/22 00:10
Methylene Chloride,T
Dibromofluoromethane ,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 6M160492.D
Analysis Date: 10/14/22 14:43
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.00065	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 662634

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK
Data File: 6M160492.D
Acq On : 10/14/22 14:43

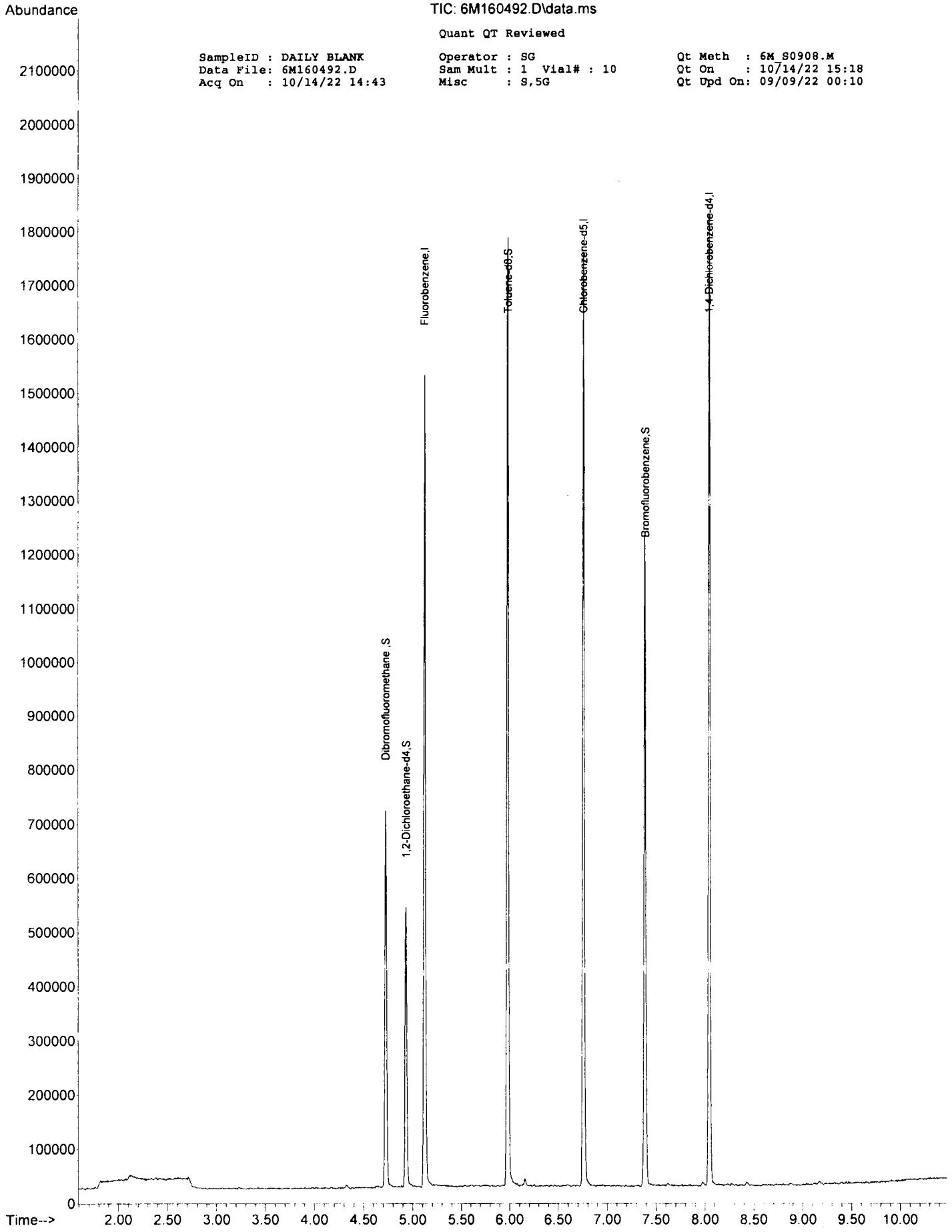
Operator : SG
Sam Mult : 1 Vial# : 10
Misc : S,5G

Qt Meth : 6M_S0908.M
Qt On : 10/14/22 15:18
Qt Upd On: 09/09/22 00:10

Data Path : G:\GcMsData\2022\GCMS_6\Data\10-14-22\
Qt Path : G:\GcMsData\2022\GCMS_6\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.123	96	898214	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.757	117	728657	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.043	152	384298	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.727	111	271990	30.96	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.20%			
39) 1,2-Dichloroethane-d4	4.934	67	126016	29.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.23%			
66) Toluene-d8	5.983	98	845810	31.26	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.20%			
76) Bromofluorobenzene	7.391	174	277659	29.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.47%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 6M160492.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 6M160492.D
Acq On : 10/14/22 14:43
Operator : SG
Sam Mult : 1 Vial# : 10
Misc : S,5G
Qt Meth : 6M_S0908.M
Qt On : 10/14/22 15:18
Qt Upd On: 09/09/22 00:10
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
6M160492.D	DAILY BLANK	S	10/14/22 14:43	1		103	98	104	98		
6M160509.D	AD33892-001	S	10/14/22 20:55	1		103	105	104	99		
6M160508.D	AD33892-002	S	10/14/22 20:33	1		101	109	102	99		
6M160497.D	MBS104997	S	10/14/22 16:32	1		91	93	109	102		
6M160498.D	AD33838-008(MS)	S	10/14/22 16:54	1		95	99	107	104		
6M160499.D	MBS104999	S	10/14/22 17:16	1		93	94	109	105		
6M160500.D	AD33838-008(MSD)	S	10/14/22 17:38	1		96	96	108	103		
6M160501.D	AD33838-008	S	10/14/22 18:00	1		101	104	104	98		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS104997

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M160497.D	MBS104997	10/14/2022 4:32:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	33.5171	0	50	67	20	130
Dichlorodifluoromethane	1	17.6151	0	50	35	20	130
Chloromethane	1	26.771	0	50	54	20	130
Bromomethane	1	29.7747	0	50	60	20	130
Vinyl Chloride	1	32.5376	0	50	65	20	130
Chloroethane	1	34.7417	0	50	69	20	130
Trichlorofluoromethane	1	36.0216	0	50	72	20	130
Ethyl ether	1	33.0442	0	50	66	50	130
Furan	1	31.0435	0	50	62	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	42.9328	0	50	86	50	130
Methylene Chloride	1	35.1262	0	50	70	50	130
Acrolein	1	176.6103	0	200	88	20	130
Acrylonitrile	1	28.1292	0	50	56	20	130
Iodomethane	1	29.9236	0	50	60	50	130
Acetone	1	143.1951	0	200	72	20	130
Carbon Disulfide	1	36.7494	0	50	73	50	130
t-Butyl Alcohol	1	149.8381	0	200	75	20	130
n-Hexane	1	47.7574	0	50	96	50	130
Di-isopropyl-ether	1	36.0917	0	50	72	50	130
1,1-Dichloroethene	1	39.081	0	50	78	50	130
Methyl Acetate	1	30.6061	0	50	61	50	130
Methyl-t-butyl ether	1	34.6251	0	50	69	50	130
1,1-Dichloroethane	1	37.3859	0	50	75	50	130
trans-1,2-Dichloroethene	1	36.7937	0	50	74	50	130
Ethyl-t-butyl ether	1	35.7081	0	50	71	50	130
cis-1,2-Dichloroethene	1	37.263	0	50	75	50	130
Bromochloromethane	1	36.1712	0	50	72	50	130
2,2-Dichloropropane	1	39.0712	0	50	78	50	130
Ethyl acetate	1	31.2081	0	50	62	50	130
1,4-Dioxane	1	1554.453	0	2500	62	50	130
1,1-Dichloropropene	1	40.9601	0	50	82	50	130
Chloroform	1	36.0105	0	50	72	50	130
Cyclohexane	1	46.5067	0	50	93	50	130
1,2-Dichloroethane	1	31.8594	0	50	64	50	130
2-Butanone	1	23.4484	0	50	47	20	130
1,1,1-Trichloroethane	1	37.7432	0	50	75	50	130
Carbon Tetrachloride	1	37.2423	0	50	74	50	130
Vinyl Acetate	1	33.9901	0	50	68	50	130
Bromodichloromethane	1	34.6317	0	50	69	50	130
Methylcyclohexane	1	45.4511	0	50	91	50	130
Dibromomethane	1	31.5106	0	50	63	50	130
1,2-Dichloropropane	1	37.9124	0	50	76	50	130
Trichloroethene	1	37.4918	0	50	75	50	130
Benzene	1	37.8232	0	50	76	50	130
tert-Amyl methyl ether	1	37.9659	0	50	76	50	130
Iso-propylacetate	1	35.0465	0	50	70	50	130
Methyl methacrylate	1	38.8746	0	50	78	50	130
Dibromochloromethane	1	35.6386	0	50	71	50	130
2-Chloroethylvinylether	1	100.1571	0	50	200*	50	130
cis-1,3-Dichloropropene	1	42.1426	0	50	84	50	130
trans-1,3-Dichloropropene	1	38.7202	0	50	77	50	130
Ethyl methacrylate	1	38.28	0	50	77	50	130
1,1,2-Trichloroethane	1	38.2796	0	50	77	50	130
1,2-Dibromoethane	1	36.8496	0	50	74	50	130
1,3-Dichloropropane	1	38.6998	0	50	77	50	130
4-Methyl-2-Pentanone	1	35.4544	0	50	71	20	130
2-Hexanone	1	33.9617	0	50	68	20	130
Tetrachloroethene	1	40.665	0	50	81	50	130
Toluene	1	40.3376	0	50	81	50	130
1,1,1,2-Tetrachloroethane	1	37.0516	0	50	74	50	130
Chlorobenzene	1	40.3982	0	50	81	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS104997

Method: 8260D	Matrix: Soil		Units: mg/Kg	QC Type: MBS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	56.2054	0	50	112	50	130
n-Amyl acetate	1	47.4633	0	50	95	50	130
Bromoform	**1**	**40.0515**	**0**	**50**	**80**	**20**	**130**
Ethylbenzene	**1**	**54.1978**	**0**	**50**	**108**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**42.8249**	**0**	**50**	**86**	**50**	**130**
Styrene	**1**	**53.257**	**0**	**50**	**107**	**50**	**130**
m&p-Xylenes	**1**	**110.7473**	**0**	**100**	**111**	**50**	**130**
o-Xylene	**1**	**56.9129**	**0**	**50**	**114**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	48.0218	0	50	96	20	130
1,3-Dichlorobenzene	**1**	**48.2817**	**0**	**50**	**97**	**50**	**130**
1,4-Dichlorobenzene	**1**	**46.5171**	**0**	**50**	**93**	**50**	**130**
1,2-Dichlorobenzene	**1**	**46.4882**	**0**	**50**	**93**	**50**	**130**
Isopropylbenzene	**1**	**58.7701**	**0**	**50**	**118**	**50**	**130**
Cyclohexanone	1	347.756	0	250	139*	50	130
Camphene	1	55.5702	0	50	111	50	130
1,2,3-Trichloropropane	1	45.37	0	50	91	50	130
2-Chlorotoluene	1	51.3204	0	50	103	50	130
p-Ethyltoluene	1	51.5262	0	50	103	50	130
4-Chlorotoluene	1	53.1972	0	50	106	50	130
n-Propylbenzene	1	58.1571	0	50	116	50	130
Bromobenzene	1	50.5393	0	50	101	50	130
1,3,5-Trimethylbenzene	1	45.0378	0	50	90	50	130
Butyl methacrylate	1	47.933	0	50	96	50	130
t-Butylbenzene	1	56.8698	0	50	114	50	130
1,2,4-Trimethylbenzene	1	55.5772	0	50	111	50	130
sec-Butylbenzene	1	52.3482	0	50	105	50	130
4-Isopropyltoluene	1	49.3787	0	50	99	50	130
n-Butylbenzene	1	51.6574	0	50	103	50	130
p-Diethylbenzene	1	50.8452	0	50	102	50	130
1,2,4,5-Tetramethylbenzene	1	48.475	0	50	97	50	130
1,2-Dibromo-3-Chloropropane	**1**	**37.1419**	**0**	**50**	**74**	**50**	**130**
Camphor	1	382.8993	0	500	77	50	130
Hexachlorobutadiene	1	47.53	0	50	95	50	130
1,2,4-Trichlorobenzene	**1**	**45.4339**	**0**	**50**	**91**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**45.2481**	**0**	**50**	**90**	**50**	**130**
Naphthalene	1	40.3536	0	50	81	50	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS104997

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M160498.D	AD33838-008(MS)	10/14/2022 4:54:00 PM
Non Spike(If applicable):	6M160501.D	AD33838-008	10/14/2022 6:00:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	35.7725	0	50	72	20	130
Dichlorodifluoromethane	1	19.361	0	50	39	20	130
Chloromethane	1	29.0295	0	50	58	20	130
Bromomethane	1	31.9896	0	50	64	20	130
Vinyl Chloride	1	34.5034	0	50	69	20	130
Chloroethane	1	38.6244	0	50	77	20	130
Trichlorofluoromethane	1	39.5057	0	50	79	20	130
Ethyl ether	1	37.9755	0	50	76	50	130
Furan	1	34.0675	0	50	68	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	48.1553	0	50	96	50	130
Methylene Chloride	1	39.2554	0	50	79	50	130
Acrolein	1	178.0417	0	200	89	20	130
Acrylonitrile	1	29.3148	0	50	59	20	130
Iodomethane	1	35.3343	0	50	71	50	130
Acetone	1	141.3637	0	200	71	20	130
Carbon Disulfide	1	39.825	0	50	80	50	130
t-Butyl Alcohol	1	157.4468	0	200	79	20	130
n-Hexane	1	57.1633	0	50	114	50	130
Di-isopropyl-ether	1	43.0225	0	50	86	50	130
1,1-Dichloroethene	1	42.2124	0	50	84	50	130
Methyl Acetate	1	32.7347	0	50	65	50	130
Methyl-t-butyl ether	1	41.2645	0	50	83	50	130
1,1-Dichloroethane	1	43.1909	0	50	86	50	130
trans-1,2-Dichloroethene	1	41.027	0	50	82	50	130
Ethyl-t-butyl ether	1	0	0	50	0*	50	130
cis-1,2-Dichloroethene	1	41.9847	0	50	84	50	130
Bromochloromethane	1	40.7855	0	50	82	50	130
2,2-Dichloropropane	1	45.4248	0	50	91	50	130
Ethyl acetate	1	34.4885	0	50	69	50	130
1,4-Dioxane	1	1748.037	0	2500	70	50	130
1,1-Dichloropropene	1	45.988	0	50	92	50	130
Chloroform	1	41.7825	0	50	84	50	130
Cyclohexane	1	51.6974	0	50	103	50	130
1,2-Dichloroethane	1	36.9178	0	50	74	50	130
2-Butanone	1	25.0193	0	50	50	20	130
1,1,1-Trichloroethane	1	42.3283	0	50	85	50	130
Carbon Tetrachloride	1	42.4129	0	50	85	50	130
Vinyl Acetate	1	36.3421	0	50	73	50	130
Bromodichloromethane	1	40.2774	0	50	81	50	130
Methylcyclohexane	1	49.1408	0	50	98	50	130
Dibromomethane	1	35.6209	0	50	71	50	130
1,2-Dichloropropane	1	42.7323	0	50	85	50	130
Trichloroethene	1	41.3638	0	50	83	50	130
Benzene	1	43.1363	0	50	86	50	130
tert-Amyl methyl ether	1	45.2503	0	50	91	50	130
Iso-propylacetate	1	38.4326	0	50	77	50	130
Methyl methacrylate	1	41.3963	0	50	83	50	130
Dibromochloromethane	1	40.7719	0	50	82	50	130
2-Chloroethylvinylether	1	142.1682	20.015	50	244*	50	130
cis-1,3-Dichloropropene	1	44.747	0	50	89	50	130
trans-1,3-Dichloropropene	1	44.0316	0	50	88	50	130
Ethyl methacrylate	1	42.3321	0	50	85	50	130
1,1,2-Trichloroethane	1	42.5364	0	50	85	50	130
1,2-Dibromoethane	1	40.3913	0	50	81	50	130
1,3-Dichloropropane	1	43.1766	0	50	86	50	130
4-Methyl-2-Pentanone	1	36.2572	0	50	73	20	130
2-Hexanone	1	33.5002	0	50	67	20	130
Tetrachloroethene	1	43.5941	0	50	87	50	130
Toluene	1	43.7535	0	50	88	50	130
1,1,1,2-Tetrachloroethane	1	41.7577	0	50	84	50	130
Chlorobenzene	1	44.6525	0	50	89	50	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS104997

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	54.9	0	50	110	50	130
n-Amyl acetate	1	45.5327	0	50	91	50	130
Bromoform	**1**	**45.9022**	**0**	**50**	**92**	**20**	**130**
Ethylbenzene	**1**	**54.9062**	**0**	**50**	**110**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**48.679**	**0**	**50**	**97**	**50**	**130**
Styrene	**1**	**55.5697**	**0**	**50**	**111**	**50**	**130**
m&p-Xylenes	**1**	**120.1301**	**0**	**100**	**120**	**50**	**130**
o-Xylene	**1**	**55.1111**	**0**	**50**	**110**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	51.0685	0	50	102	20	130
1,3-Dichlorobenzene	**1**	**52.9734**	**0**	**50**	**106**	**50**	**130**
1,4-Dichlorobenzene	**1**	**51.2458**	**0**	**50**	**102**	**50**	**130**
1,2-Dichlorobenzene	**1**	**50.4445**	**0**	**50**	**101**	**50**	**130**
Isopropylbenzene	**1**	**60.4421**	**0**	**50**	**121**	**50**	**130**
Cyclohexanone	1	152.5878	0	250	61	50	130
Camphene	1	56.6728	0	50	113	50	130
1,2,3-Trichloropropane	1	48.9203	0	50	98	50	130
2-Chlorotoluene	1	56.4153	0	50	113	50	130
p-Ethyltoluene	1	55.2302	0	50	110	50	130
4-Chlorotoluene	1	58.5058	0	50	117	50	130
n-Propylbenzene	1	63.4331	0	50	127	50	130
Bromobenzene	1	55.8885	0	50	112	50	130
1,3,5-Trimethylbenzene	1	49.3052	0	50	99	50	130
Butyl methacrylate	1	54.5106	0	50	109	50	130
t-Butylbenzene	1	59.3978	0	50	119	50	130
1,2,4-Trimethylbenzene	1	60.4445	0	50	121	50	130
sec-Butylbenzene	1	54.1909	0	50	108	50	130
4-Isopropyltoluene	1	52.0917	0	50	104	50	130
n-Butylbenzene	1	55.2133	0	50	110	50	130
p-Diethylbenzene	1	51.5683	0	50	103	50	130
1,2,4,5-Tetramethylbenzene	1	48.0931	0	50	96	50	130
1,2-Dibromo-3-Chloropropane	**1**	**38.5793**	**0**	**50**	**77**	**50**	**130**
Camphor	1	384.0852	0	500	77	50	130
Hexachlorobutadiene	1	52.675	0	50	105	50	130
1,2,4-Trichlorobenzene	**1**	**51.5843**	**0**	**50**	**103**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**50.2871**	**0**	**50**	**101**	**50**	**130**
Naphthalene	1	42.0767	0	50	84	50	130

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Form3
Recovery Data Laboratory Limits
QC Batch: MBS104997

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M160500.D	AD33838-008(MSD)	10/14/2022 5:38:00 PM
Non Spike(If applicable):	6M160501.D	AD33838-008	10/14/2022 6:00:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	34.9329	0	50	70	20	130
Dichlorodifluoromethane	1	22.0631	0	50	44	20	130
Chloromethane	1	34.1749	0	50	68	20	130
Bromomethane	1	33.9026	0	50	68	20	130
Vinyl Chloride	1	39.8862	0	50	80	20	130
Chloroethane	1	40.0945	0	50	80	20	130
Trichlorofluoromethane	1	40.7703	0	50	82	20	130
Ethyl ether	1	40.6394	0	50	81	50	130
Furan	1	37.0831	0	50	74	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	51.378	0	50	103	50	130
Methylene Chloride	1	45.0272	0	50	90	50	130
Acrolein	1	189.8308	0	200	95	20	130
Acrylonitrile	1	32.9972	0	50	66	20	130
Iodomethane	1	39.8476	0	50	80	50	130
Acetone	1	153.4546	0	200	77	20	130
Carbon Disulfide	1	42.8405	0	50	86	50	130
t-Butyl Alcohol	1	175.785	0	200	88	20	130
n-Hexane	1	59.1608	0	50	118	50	130
Di-isopropyl-ether	1	48.8892	0	50	98	50	130
1,1-Dichloroethene	1	45.8253	0	50	92	50	130
Methyl Acetate	1	35.8813	0	50	72	50	130
Methyl-t-butyl ether	1	46.9449	0	50	94	50	130
1,1-Dichloroethane	1	47.8894	0	50	96	50	130
trans-1,2-Dichloroethene	1	45.5902	0	50	91	50	130
Ethyl-t-butyl ether	1	0	0	50	0*	50	130
cis-1,2-Dichloroethene	1	47.1212	0	50	94	50	130
Bromochloromethane	1	45.6692	0	50	91	50	130
2,2-Dichloropropane	1	50.1436	0	50	100	50	130
Ethyl acetate	1	38.381	0	50	77	50	130
1,4-Dioxane	1	1955.906	0	2500	78	50	130
1,1-Dichloropropene	1	49.5716	0	50	99	50	130
Chloroform	1	47.0875	0	50	94	50	130
Cyclohexane	1	56.6767	0	50	113	50	130
1,2-Dichloroethane	1	40.5781	0	50	81	50	130
2-Butanone	1	27.9759	0	50	56	20	130
1,1,1-Trichloroethane	1	46.4648	0	50	93	50	130
Carbon Tetrachloride	1	44.9409	0	50	90	50	130
Vinyl Acetate	1	40.3599	0	50	81	50	130
Bromodichloromethane	1	44.7757	0	50	90	50	130
Methylcyclohexane	1	52.728	0	50	105	50	130
Dibromomethane	1	40.3199	0	50	81	50	130
1,2-Dichloropropane	1	48.8045	0	50	98	50	130
Trichloroethene	1	44.8733	0	50	90	50	130
Benzene	1	47.6421	0	50	95	50	130
tert-Amyl methyl ether	1	51.6843	0	50	103	50	130
Iso-propylacetate	1	44.2816	0	50	89	50	130
Methyl methacrylate	1	47.9197	0	50	96	50	130
Dibromochloromethane	1	45.8401	0	50	92	50	130
2-Chloroethylvinylether	1	101.7435	20.015	50	163*	50	130
cis-1,3-Dichloropropene	1	50.79	0	50	102	50	130
trans-1,3-Dichloropropene	1	49.0209	0	50	98	50	130
Ethyl methacrylate	1	47.593	0	50	95	50	130
1,1,2-Trichloroethane	1	48.196	0	50	96	50	130
1,2-Dibromoethane	1	46.4194	0	50	93	50	130
1,3-Dichloropropane	1	49.5818	0	50	99	50	130
4-Methyl-2-Pentanone	1	40.9378	0	50	82	20	130
2-Hexanone	1	39.5218	0	50	79	20	130
Tetrachloroethene	1	48.9242	0	50	98	50	130
Toluene	1	49.1897	0	50	98	50	130
1,1,1,2-Tetrachloroethane	1	47.8117	0	50	96	50	130
Chlorobenzene	1	50.4884	0	50	101	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS104997

Method: 8260D	Matrix: Soil		Units: mg/Kg	QC Type: MSD		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	61.5143	0	50	123	50	130
n-Amyl acetate	1	48.7325	0	50	97	50	130
Bromoform	1	51.0777	0	50	102	20	130
Ethylbenzene	1	61.3543	0	50	123	50	130
1,1,2,2-Tetrachloroethane	1	55.1731	0	50	110	50	130
Styrene	1	61.5833	0	50	123	50	130
m&p-Xylenes	1	131.4782	0	100	131*	50	130
o-Xylene	1	62.3894	0	50	125	50	130
trans-1,4-Dichloro-2-butene	1	54.9239	0	50	110	20	130
1,3-Dichlorobenzene	1	58.0878	0	50	116	50	130
1,4-Dichlorobenzene	1	55.9167	0	50	112	50	130
1,2-Dichlorobenzene	1	55.6377	0	50	111	50	130
Isopropylbenzene	1	66.5066	0	50	133*	50	130
Cyclohexanone	1	159.1837	0	250	64	50	130
Camphene	1	62.3452	0	50	125	50	130
1,2,3-Trichloropropane	1	55.4039	0	50	111	50	130
2-Chlorotoluene	1	59.4882	0	50	119	50	130
p-Ethyltoluene	1	59.8804	0	50	120	50	130
4-Chlorotoluene	1	65.5472	0	50	131*	50	130
n-Propylbenzene	1	68.8989	0	50	138*	50	130
Bromobenzene	1	61.0081	0	50	122	50	130
1,3,5-Trimethylbenzene	1	53.6448	0	50	107	50	130
Butyl methacrylate	1	57.9557	0	50	116	50	130
t-Butylbenzene	1	64.7767	0	50	130	50	130
1,2,4-Trimethylbenzene	1	65.5295	0	50	131*	50	130
sec-Butylbenzene	1	58.5292	0	50	117	50	130
4-Isopropyltoluene	1	55.9456	0	50	112	50	130
n-Butylbenzene	1	59.1856	0	50	118	50	130
p-Diethylbenzene	1	55.3095	0	50	111	50	130
1,2,4,5-Tetramethylbenzene	1	49.0063	0	50	98	50	130
1,2-Dibromo-3-Chloropropane	1	41.5521	0	50	83	50	130
Camphor	1	402.6841	0	500	81	50	130
Hexachlorobutadiene	1	57.5369	0	50	115	50	130
1,2,4-Trichlorobenzene	1	55.5667	0	50	111	50	130
1,2,3-Trichlorobenzene	1	54.6428	0	50	109	50	130
Naphthalene	1	44.2528	0	50	89	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS104997

	Data File	Sample ID:	Analysis Date
Spike or Dup:	6M160500.D	AD33838-008(MSD)	10/14/2022 5:38:00 PM
Duplicate(If applicable):	6M160498.D	AD33838-008(MS)	10/14/2022 4:54:00 PM
Inst Blank(If applicable):			

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	34.9329	35.7725	2.4	30
Dichlorodifluoromethane	**1**	**22.0631**	**19.361**	**13**	**30**
Chloromethane	**1**	**34.1749**	**29.0295**	**16**	**30**
Bromomethane	**1**	**33.9026**	**31.9896**	**5.8**	**30**
Vinyl Chloride	**1**	**39.8862**	**34.5034**	**14**	**40**
Chloroethane	**1**	**40.0945**	**38.6244**	**3.7**	**30**
Trichlorofluoromethane	**1**	**40.7703**	**39.5057**	**3.2**	**30**
Ethyl ether	1	40.6394	37.9755	6.8	30
Furan	1	37.0831	34.0675	8.5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**51.378**	**48.1553**	**6.5**	**30**
Methylene Chloride	**1**	**45.0272**	**39.2554**	**14**	**30**
Acrolein	1	189.8308	178.0417	6.4	30
Acrylonitrile	1	32.9972	29.3148	12	30
Iodomethane	1	39.8476	35.3343	12	30
Acetone	**1**	**153.4546**	**141.3637**	**8.2**	**30**
Carbon Disulfide	**1**	**42.8405**	**39.825**	**7.3**	**30**
t-Butyl Alcohol	1	175.785	157.4468	11	30
n-Hexane	1	59.1608	57.1633	3.4	30
Di-isopropyl-ether	1	48.8892	43.0225	13	30
1,1-Dichloroethene	**1**	**45.8253**	**42.2124**	**8.2**	**40**
Methyl Acetate	**1**	**35.8813**	**32.7347**	**9.2**	**30**
Methyl-t-butyl ether	**1**	**46.9449**	**41.2645**	**13**	**30**
1,1-Dichloroethane	**1**	**47.8894**	**43.1909**	**10**	**40**
trans-1,2-Dichloroethene	**1**	**45.5902**	**41.027**	**11**	**30**
Ethyl-t-butyl ether	1	0	0	NA	30
cis-1,2-Dichloroethene	**1**	**47.1212**	**41.9847**	**12**	**30**
Bromochloromethane	**1**	**45.6692**	**40.7855**	**11**	**30**
2,2-Dichloropropane	1	50.1436	45.4248	9.9	30
Ethyl acetate	1	38.381	34.4885	11	30
1,4-Dioxane	**1**	**1955.906**	**1748.037**	**11**	**30**
1,1-Dichloropropene	1	49.5716	45.988	7.5	30
Chloroform	**1**	**47.0875**	**41.7825**	**12**	**40**
Cyclohexane	**1**	**56.6767**	**51.6974**	**9.2**	**30**
1,2-Dichloroethane	**1**	**40.5781**	**36.9178**	**9.4**	**40**
2-Butanone	**1**	**27.9759**	**25.0193**	**11**	**40**
1,1,1-Trichloroethane	**1**	**46.4648**	**42.3283**	**9.3**	**30**
Carbon Tetrachloride	**1**	**44.9409**	**42.4129**	**5.8**	**40**
Vinyl Acetate	1	40.3599	36.3421	10	30
Bromodichloromethane	**1**	**44.7757**	**40.2774**	**11**	**30**
Methylcyclohexane	**1**	**52.728**	**49.1408**	**7**	**30**
Dibromomethane	1	40.3199	35.6209	12	30
1,2-Dichloropropane	**1**	**48.8045**	**42.7323**	**13**	**30**
Trichloroethene	**1**	**44.8733**	**41.3638**	**8.1**	**40**
Benzene	**1**	**47.6421**	**43.1363**	**9.9**	**40**
tert-Amyl methyl ether	1	51.6843	45.2503	13	30
Iso-propylacetate	1	44.2816	38.4326	14	30
Methyl methacrylate	1	47.9197	41.3963	15	30
Dibromochloromethane	**1**	**45.8401**	**40.7719**	**12**	**30**
2-Chloroethylvinylether	1	101.7435	142.1682	33*	30
cis-1,3-Dichloropropene	**1**	**50.79**	**44.747**	**13**	**30**
trans-1,3-Dichloropropene	**1**	**49.0209**	**44.0316**	**11**	**30**
Ethyl methacrylate	1	47.593	42.3321	12	30
1,1,2-Trichloroethane	**1**	**48.196**	**42.5364**	**12**	**30**
1,2-Dibromoethane	**1**	**46.4194**	**40.3913**	**14**	**30**
1,3-Dichloropropane	1	49.5818	43.1766	14	30
4-Methyl-2-Pentanone	**1**	**40.9378**	**36.2572**	**12**	**30**
2-Hexanone	**1**	**39.5218**	**33.5002**	**16**	**30**
Tetrachloroethene	**1**	**48.9242**	**43.5941**	**12**	**40**
Toluene	**1**	**49.1897**	**43.7535**	**12**	**40**
1,1,1,2-Tetrachloroethane	1	47.8117	41.7577	14	30
Chlorobenzene	**1**	**50.4884**	**44.6525**	**12**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS104997

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	61.5143	54.9	11	30
n-Amyl acetate	1	48.7325	45.5327	6.8	30
Bromoform	**1**	**51.0777**	**45.9022**	**11**	**30**
Ethylbenzene	**1**	**61.3543**	**54.9062**	**11**	**30**
1,1,2,2-Tetrachloroethane	**1**	**55.1731**	**48.679**	**13**	**30**
Styrene	**1**	**61.5833**	**55.5697**	**10**	**30**
m&p-Xylenes	**1**	**131.4782**	**120.1301**	**9**	**30**
o-Xylene	**1**	**62.3894**	**55.1111**	**12**	**30**
trans-1,4-Dichloro-2-butene	1	54.9239	51.0685	7.3	30
1,3-Dichlorobenzene	**1**	**58.0878**	**52.9734**	**9.2**	**30**
1,4-Dichlorobenzene	**1**	**55.9167**	**51.2458**	**8.7**	**40**
1,2-Dichlorobenzene	**1**	**55.6377**	**50.4445**	**9.8**	**40**
Isopropylbenzene	**1**	**66.5066**	**60.4421**	**9.6**	**30**
Cyclohexanone	1	159.1837	152.5878	4.2	30
Camphene	1	62.3452	56.6728	9.5	30
1,2,3-Trichloropropane	1	55.4039	48.9203	12	30
2-Chlorotoluene	1	59.4882	56.4153	5.3	30
p-Ethyltoluene	1	59.8804	55.2302	8.1	30
4-Chlorotoluene	1	65.5472	58.5058	11	30
n-Propylbenzene	1	68.8989	63.4331	8.3	40
Bromobenzene	1	61.0081	55.8885	8.8	30
1,3,5-Trimethylbenzene	1	53.6448	49.3052	8.4	30
Butyl methacrylate	1	57.9557	54.5106	6.1	30
t-Butylbenzene	1	64.7767	59.3978	8.7	30
1,2,4-Trimethylbenzene	1	65.5295	60.4445	8.1	30
sec-Butylbenzene	1	58.5292	54.1909	7.7	40
4-Isopropyltoluene	1	55.9456	52.0917	7.1	30
n-Butylbenzene	1	59.1856	55.2133	6.9	30
p-Diethylbenzene	1	55.3095	51.5683	7	30
1,2,4,5-Tetramethylbenzene	1	49.0063	48.0931	1.9	30
1,2-Dibromo-3-Chloropropane	**1**	**41.5521**	**38.5793**	**7.4**	**30**
Camphor	1	402.6841	384.0852	4.7	30
Hexachlorobutadiene	1	57.5369	52.675	8.8	30
1,2,4-Trichlorobenzene	**1**	**55.5667**	**51.5843**	**7.4**	**30**
1,2,3-Trichlorobenzene	**1**	**54.6428**	**50.2871**	**8.3**	**30**
Naphthalene	1	44.2528	42.0767	5	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS104999

Data File	Sample ID:	Analysis Date
Spike or Dup: 6M160499.D	MBS104999	10/14/2022 5:16:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	34.5573	0	50	69	20	130
Dichlorodifluoromethane	**1**	**25.6152**	**0**	**50**	**51**	**20**	**130**
Chloromethane	**1**	**38.2091**	**0**	**50**	**76**	**20**	**130**
Bromomethane	**1**	**40.1747**	**0**	**50**	**80**	**20**	**130**
Vinyl Chloride	**1**	**46.1065**	**0**	**50**	**92**	**20**	**130**
Chloroethane	**1**	**47.5312**	**0**	**50**	**95**	**20**	**130**
Trichlorofluoromethane	**1**	**48.5373**	**0**	**50**	**97**	**20**	**130**
Ethyl ether	1	45.0144	0	50	90	50	130
Furan	1	41.9357	0	50	84	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**60.1719**	**0**	**50**	**120**	**50**	**130**
Methylene Chloride	**1**	**49.3317**	**0**	**50**	**99**	**50**	**130**
Acrolein	1	241.1864	0	200	121	20	130
Acrylonitrile	1	39.0002	0	50	78	20	130
Iodomethane	1	44.9597	0	50	90	50	130
Acetone	**1**	**207.5966**	**0**	**200**	**104**	**20**	**130**
Carbon Disulfide	**1**	**51.4337**	**0**	**50**	**103**	**50**	**130**
t-Butyl Alcohol	1	205.5378	0	200	103	20	130
n-Hexane	1	73.5405	0	50	147*	50	130
Di-isopropyl-ether	1	53.1863	0	50	106	50	130
1,1-Dichloroethene	**1**	**53.3365**	**0**	**50**	**107**	**50**	**130**
Methyl Acetate	**1**	**41.1712**	**0**	**50**	**82**	**50**	**130**
Methyl-t-butyl ether	**1**	**49.6461**	**0**	**50**	**99**	**50**	**130**
1,1-Dichloroethane	**1**	**54.0923**	**0**	**50**	**108**	**50**	**130**
trans-1,2-Dichloroethene	**1**	**53.2144**	**0**	**50**	**106**	**50**	**130**
Ethyl-t-butyl ether	1	0	0	50	0*	50	130
cis-1,2-Dichloroethene	**1**	**53.5695**	**0**	**50**	**107**	**50**	**130**
Bromochloromethane	**1**	**49.4992**	**0**	**50**	**99**	**50**	**130**
2,2-Dichloropropane	1	58.0994	0	50	116	50	130
Ethyl acetate	1	44.9604	0	50	90	50	130
1,4-Dioxane	**1**	**2224.535**	**0**	**2500**	**89**	**50**	**130**
1,1-Dichloropropene	1	59.3485	0	50	119	50	130
Chloroform	**1**	**51.3958**	**0**	**50**	**103**	**50**	**130**
Cyclohexane	**1**	**66.6032**	**0**	**50**	**133***	**50**	**130**
1,2-Dichloroethane	**1**	**44.6877**	**0**	**50**	**89**	**50**	**130**
2-Butanone	**1**	**35.8056**	**0**	**50**	**72**	**20**	**130**
1,1,1-Trichloroethane	**1**	**54.093**	**0**	**50**	**108**	**50**	**130**
Carbon Tetrachloride	**1**	**53.4309**	**0**	**50**	**107**	**50**	**130**
Vinyl Acetate	1	49.2924	0	50	99	50	130
Bromodichloromethane	**1**	**49.1384**	**0**	**50**	**98**	**50**	**130**
Methylcyclohexane	**1**	**63.439**	**0**	**50**	**127**	**50**	**130**
Dibromomethane	1	44.1765	0	50	88	50	130
1,2-Dichloropropane	**1**	**54.2255**	**0**	**50**	**108**	**50**	**130**
Trichloroethene	**1**	**52.4059**	**0**	**50**	**105**	**50**	**130**
Benzene	**1**	**54.4369**	**0**	**50**	**109**	**50**	**130**
tert-Amyl methyl ether	1	54.1477	0	50	108	50	130
Iso-propylacetate	1	50.1596	0	50	100	50	130
Methyl methacrylate	1	53.2705	0	50	107	50	130
Dibromochloromethane	**1**	**51.7031**	**0**	**50**	**103**	**50**	**130**
2-Chloroethylvinylether	1	65.8502	0	50	132*	50	130
cis-1,3-Dichloropropene	**1**	**56.9462**	**0**	**50**	**114**	**50**	**130**
trans-1,3-Dichloropropene	**1**	**55.1158**	**0**	**50**	**110**	**50**	**130**
Ethyl methacrylate	1	53.8995	0	50	108	50	130
1,1,2-Trichloroethane	**1**	**53.868**	**0**	**50**	**108**	**50**	**130**
1,2-Dibromoethane	**1**	**51.5463**	**0**	**50**	**103**	**50**	**130**
1,3-Dichloropropane	1	55.5413	0	50	111	50	130
4-Methyl-2-Pentanone	**1**	**47.7906**	**0**	**50**	**96**	**20**	**130**
2-Hexanone	**1**	**48.6937**	**0**	**50**	**97**	**20**	**130**
Tetrachloroethene	**1**	**59.8488**	**0**	**50**	**120**	**50**	**130**
Toluene	**1**	**58.4705**	**0**	**50**	**117**	**50**	**130**
1,1,1,2-Tetrachloroethane	1	54.8436	0	50	110	50	130
Chlorobenzene	**1**	**58.3182**	**0**	**50**	**117**	**50**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS104999

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	69.4238	0	50	139*	50	130
n-Amyl acetate	1	68.7083	0	50	137*	50	130
Bromoform	**1**	**56.3452**	**0**	**50**	**113**	**20**	**130**
Ethylbenzene	**1**	**74.4699**	**0**	**50**	**149***	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**61.721**	**0**	**50**	**123**	**50**	**130**
Styrene	**1**	**72.3281**	**0**	**50**	**145***	**50**	**130**
m&p-Xylenes	**1**	**157.596**	**0**	**100**	**158***	**50**	**130**
o-Xylene	**1**	**73.673**	**0**	**50**	**147***	**50**	**130**
trans-1,4-Dichloro-2-butene	1	66.9713	0	50	134*	20	130
1,3-Dichlorobenzene	**1**	**70.6354**	**0**	**50**	**141***	**50**	**130**
1,4-Dichlorobenzene	**1**	**67.0698**	**0**	**50**	**134***	**50**	**130**
1,2-Dichlorobenzene	**1**	**64.7651**	**0**	**50**	**130**	**50**	**130**
Isopropylbenzene	**1**	**80.5474**	**0**	**50**	**161***	**50**	**130**
Cyclohexanone	1	414.4765	0	250	166*	50	130
Camphene	1	75.8841	0	50	152*	50	130
1,2,3-Trichloropropane	1	65.2911	0	50	131*	50	130
2-Chlorotoluene	1	72.6336	0	50	145*	50	130
p-Ethyltoluene	1	73.0075	0	50	146*	50	130
4-Chlorotoluene	1	76.9746	0	50	154*	50	130
n-Propylbenzene	1	84.1829	0	50	168*	50	130
Bromobenzene	1	71.6977	0	50	143*	50	130
1,3,5-Trimethylbenzene	1	64.732	0	50	129	50	130
Butyl methacrylate	1	65.6057	0	50	131*	50	130
t-Butylbenzene	1	78.3816	0	50	157*	50	130
1,2,4-Trimethylbenzene	1	79.3943	0	50	159*	50	130
sec-Butylbenzene	1	71.6804	0	50	143*	50	130
4-Isopropyltoluene	1	68.5811	0	50	137*	50	130
n-Butylbenzene	1	74.6823	0	50	149*	50	130
p-Diethylbenzene	1	68.4932	0	50	137*	50	130
1,2,4,5-Tetramethylbenzene	1	60.7063	0	50	121	50	130
1,2-Dibromo-3-Chloropropane	**1**	**48.9494**	**0**	**50**	**98**	**50**	**130**
Camphor	1	515.7968	0	500	103	50	130
Hexachlorobutadiene	1	71.8403	0	50	144*	50	130
1,2,4-Trichlorobenzene	**1**	**68.4379**	**0**	**50**	**137***	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**65.7646**	**0**	**50**	**132***	**50**	**130**
Naphthalene	1	53.41	0	50	107	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 6M160492.D
Matrix: Soil

Blank Analysis Date: 10/14/22 14:43
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD33892-001	6M160509.D	10/14/22 20:55
AD33892-002	6M160508.D	10/14/22 20:33
MBS104999	6M160499.D	10/14/22 17:16
AD33838-008	6M160501.D	10/14/22 18:00
AD33838-008(MSD	6M160500.D	10/14/22 17:38
AD33838-008(MS)	6M160498.D	10/14/22 16:54
MBS104997	6M160497.D	10/14/22 16:32

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 6
Data File: 6M159196.D
Analysis Date: 09/08/22 18:14
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.379 to 7.385 min

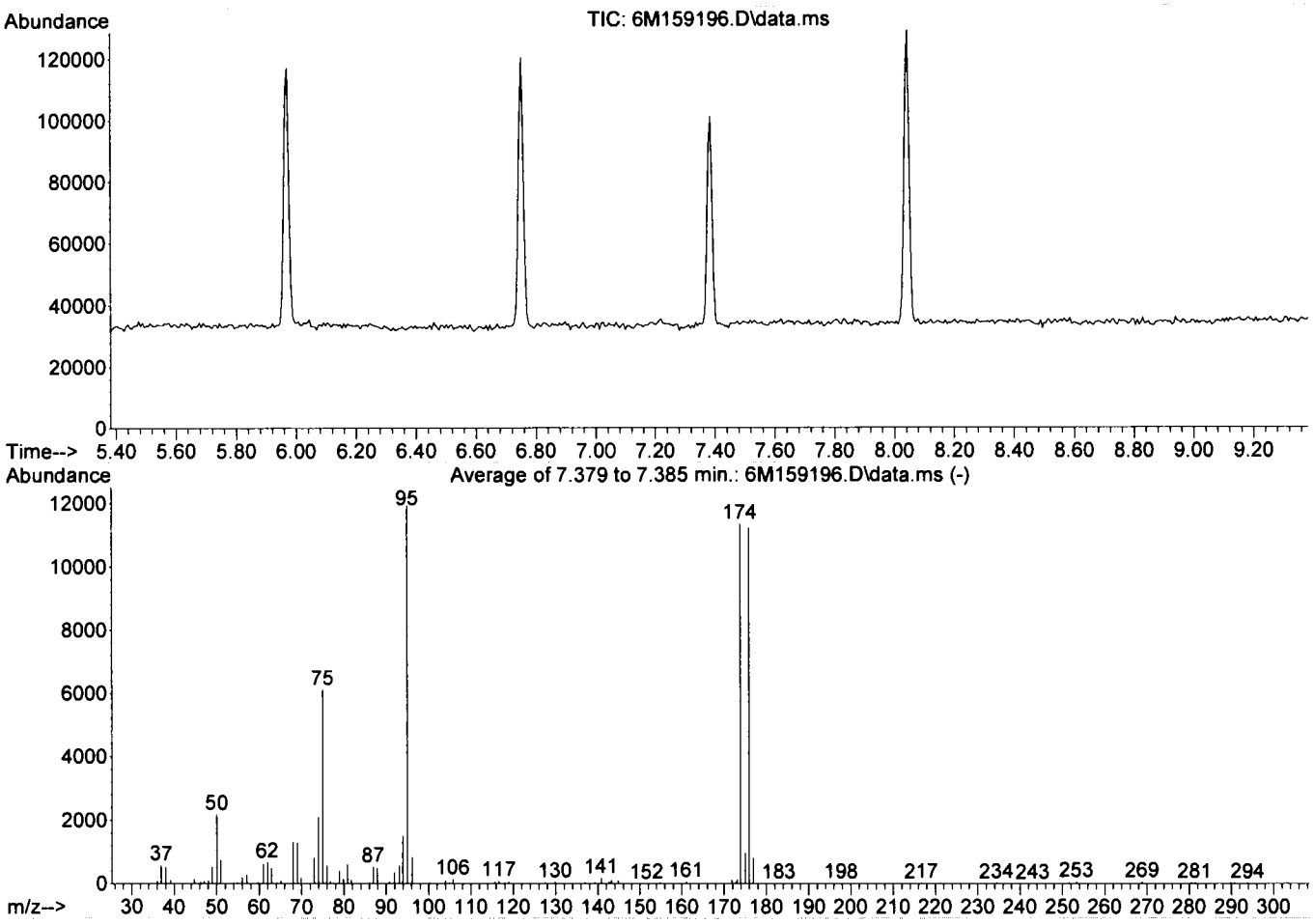
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.3	2186	PASS
75	95	30	60	51.2	6113	PASS
95	95	100	100	100.0	11929	PASS
96	95	5	9	7.1	846	PASS
173	174	0.00	2	1.2	132	PASS
174	95	50	100	95.1	11340	PASS
175	174	5	9	8.7	983	PASS
176	174	95	101	98.8	11209	PASS
177	176	5	9	7.3	818	PASS

Data File	Sample Number	Analysis Date:
6M159199.D	CAL @ 0.5 PPB	09/08/22 19:13
6M159200.D	CAL @ 1 PPB	09/08/22 19:34
6M159201.D	CAL @ 5 PPB	09/08/22 19:56
6M159202.D	CAL @ 2 PPB	09/08/22 20:18
6M159203.D	CAL @ 20 PPB	09/08/22 20:40
6M159204.D	CAL @ 50 PPB	09/08/22 21:02
6M159205.D	CAL @500 PPB	09/08/22 21:24
6M159206.D	CAL @ 250 PPB	09/08/22 21:46
6M159207.D	CAL @100 PPB	09/08/22 22:07
6M159210.D	ICV	09/08/22 23:13

Data Path : G:\GcMsData\2022\GCMS_6\Data\09-08-22\
Data File : 6M159196.D
Acq On : 08 Sep 2022 18:14
Operator : WP
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_6\MethodQt\6M_S0603.M
Title : @GCMS_6,ug,624,8260
Last Update : Mon Jun 06 12:50:27 2022



Spectrum Information: Average of 7.379 to 7.385 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	2186	PASS
75	95	30	60	51.2	6113	PASS
95	95	100	100	100.0	11929	PASS
96	95	5	9	7.1	846	PASS
173	174	0.00	2	1.2	132	PASS
174	95	50	100	95.1	11340	PASS
175	174	5	9	8.7	983	PASS
176	174	95	101	98.8	11209	PASS
177	176	5	9	7.3	818	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 6M160485.D
Instrument: GCMS 6 **Analysis Date:** 10/14/22 12:09
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.366 to 7.397 min

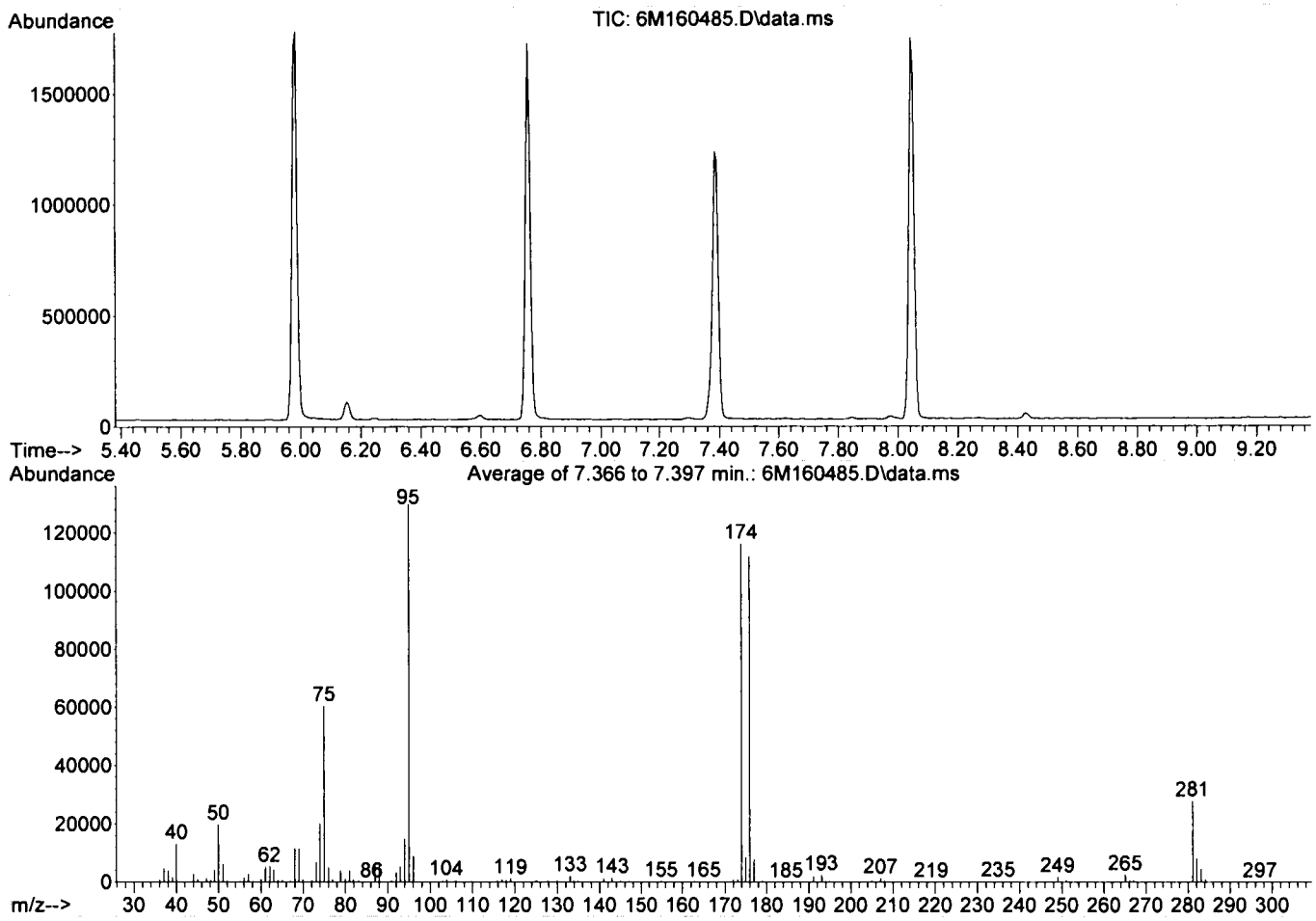
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.3	19864	PASS
75	95	30	60	46.7	60580	PASS
95	95	100	100	100.0	129767	PASS
96	95	5	9	7.0	9027	PASS
173	174	0.00	2	0.9	999	PASS
174	95	50	100	89.6	116251	PASS
175	174	5	9	7.5	8704	PASS
176	174	95	101	96.3	111909	PASS
177	176	5	9	7.2	8069	PASS

Data File	Sample Number	Analysis Date:
6M160486.D	50 PPB	10/14/22 12:31
6M160487.D	50 PPB	10/14/22 12:53
6M160488.D	CAL @ 50 PPB	10/14/22 13:15
6M160489.D	BLK	10/14/22 13:37
6M160490.D	BLK	10/14/22 13:59
6M160491.D	BLK	10/14/22 14:21
6M160492.D	DAILY BLANK	10/14/22 14:43
6M160493.D	AD33782-002	10/14/22 15:05
6M160494.D	AD33757-001	10/14/22 15:27
6M160495.D	AD33758-001(5X)	10/14/22 15:48
6M160496.D	33873-001(5X)	10/14/22 16:10
6M160497.D	MBS104997	10/14/22 16:32
6M160498.D	AD33838-008(MS)	10/14/22 16:54
6M160499.D	MBS104999	10/14/22 17:16
6M160500.D	AD33838-008(MSD	10/14/22 17:38
6M160501.D	AD33838-008	10/14/22 18:00
6M160502.D	AD33865-009	10/14/22 18:22
6M160503.D	AD33776-012	10/14/22 18:44
6M160504.D	AD33832-003	10/14/22 19:06
6M160505.D	AD33795-001	10/14/22 19:27
6M160506.D	AD33873-001	10/14/22 19:49
6M160507.D	BLK	10/14/22 20:11
6M160508.D	AD33892-002	10/14/22 20:33
6M160509.D	AD33892-001	10/14/22 20:55
6M160510.D	AD33879-001	10/14/22 21:17
6M160511.D	AD33879-005	10/14/22 21:39
6M160512.D	AD33879-004	10/14/22 22:01
6M160513.D	BLK	10/14/22 22:23
6M160514.D	AD33897-002	10/14/22 22:45
6M160515.D	AD33904-001	10/14/22 23:07
6M160516.D	AD33902-006(5X)	10/14/22 23:29
6M160517.D	BLK	10/14/22 23:51
6M160518.D	BLK	10/15/22 00:13
6M160519.D	BLK	10/15/22 00:35
6M160520.D	BLK	10/15/22 00:56
6M160521.D	AD33884-002	10/15/22 01:18
6M160522.D	AD33884-004	10/15/22 01:40
6M160523.D	AD33884-005	10/15/22 02:02
6M160524.D	AD33884-006	10/15/22 02:24

Data Path : G:\GcMsData\2022\GCMS_6\Data\10-14-22\
Data File : 6M160485.D
Acq On : 14 Oct 2022 12:09
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_6\MethodQt\6M_S0908.M
Title : @GCMS_6,ug,624,8260
Last Update : Thu Sep 08 22:27:17 2022



Spectrum Information: Average of 7.366 to 7.397 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	19864	PASS
75	95	30	60	46.7	60580	PASS
95	95	100	100	100.0	129767	PASS
96	95	5	9	7.0	9027	PASS
173	174	0.00	2	0.9	999	PASS
174	95	50	100	89.6	116251	PASS
175	174	5	9	7.5	8704	PASS
176	174	95	101	96.3	111909	PASS
177	176	5	9	7.2	8069	PASS

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2101411 0040

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M159203.D	CAL @ 20 PPB	09/08/22 20:40	2	6M159201.D	CAL @ 5 PPB	09/08/22 19:56
3	6M159202.D	CAL @ 2 PPB	09/08/22 20:18	4	6M159204.D	CAL @ 50 PPB	09/08/22 21:02
5	6M159207.D	CAL @100 PPB	09/08/22 22:07	6	6M159206.D	CAL @ 250 PPB	09/08/22 21:46
7	6M159205.D	CAL @500 PPB	09/08/22 21:24	8	6M159200.D	CAL @ 1 PPB	09/08/22 19:34
9	6M159199.D	CAL @ 0.5 PPB	09/08/22 19:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Qua	0.0911	0.1676	0.2281	0.1060	0.1156	0.1184	0.1274	-----	-----	0.136	1.65	0.999	1.00	34	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dichlorodifluorometha	1	0	Avg	0.0972	0.1085	0.1073	0.1215	0.1391	0.1371	0.1493	-----	-----	0.123	1.65	0.998	1.00	16	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloromethane	1	0	Avg	0.1162	0.1316	0.1401	0.1298	0.1446	0.1472	0.1533	-----	-----	0.138	1.82	1.00	1.00	9.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromomethane	1	0	Avg	0.1072	0.1441	0.1466	0.1132	0.1259	0.1320	0.1347	-----	-----	0.129	2.25	1.00	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Chloride	1	0	Avg	0.1190	0.1456	0.1224	0.1399	0.1575	0.1585	0.1646	-----	-----	0.144	1.93	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroethane	1	0	Avg	0.0780	0.0938	0.0886	0.0900	0.0989	0.1007	0.1012	-----	-----	0.0931	2.34	1.00	1.00	8.9	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichlorofluoromethan	1	0	Avg	0.1821	0.2254	0.2168	0.2114	0.2436	0.2394	0.2414	-----	-----	0.223	2.57	1.00	1.00	9.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl ether	1	0	Avg	0.0657	0.0751	0.0788	0.0700	0.0744	0.0800	0.0799	-----	-----	0.0749	2.82	1.00	1.00	7.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Furan	1	0	Avg	0.1275	0.1534	0.1720	0.1461	0.1583	0.1610	0.1601	-----	-----	0.154	2.86	1.00	1.00	9.2	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.0638	0.0802	0.0754	0.0780	0.0890	0.0846	0.0871	-----	-----	0.0798	3.03	1.00	1.00	11	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methylene Chloride	1	0	Avg	0.0978	0.1135	0.1224	0.1037	0.1083	0.1136	0.1108	-----	-----	0.110	3.44	1.00	1.00	7.1	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acrolein	1	0	Avg	0.0149	0.0143	0.0135	0.0149	0.0157	0.0164	0.0161	-----	-----	0.0152	2.93	1.00	1.00	6.7		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Acrylonitrile	1	0	Avg	0.0356	0.0524	0.0467	0.0396	0.0399	0.0422	0.0406	-----	-----	0.0425	3.65	1.00	1.00	13		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iodomethane	1	0	Qua	0.1155	0.0795	0.0919	0.1445	0.1541	0.1658	0.1661	-----	-----	0.131	3.18	1.00	1.00	27		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Acetone	1	0	Avg	0.0311	0.0351	0.0354	0.0307	0.0317	0.0330	0.0320	-----	-----	0.0328	3.06	1.00	1.00	5.8	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Carbon Disulfide	1	0	Avg	0.2469	0.3176	0.3622	0.2749	0.3052	0.2952	0.2982	-----	-----	0.300	3.25	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butyl Alcohol	1	0	Avg	0.0104	0.0107	0.0131	0.0110	0.0116	0.0123	0.0117	-----	-----	0.0116	3.51	0.999	1.00	7.9		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
n-Hexane	1	0	Avg	0.0616	0.0717	0.0978	0.0874	0.1069	0.1004	0.1051	-----	-----	0.0902	3.92	0.999	0.999	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Di-isopropyl-ether	1	0	Avg	0.2078	0.2004	0.2169	0.2423	0.2670	0.2803	0.2755	-----	-----	0.242	4.07	1.00	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1-Dichloroethene	1	0	Avg	0.1078	0.1308	0.1300	0.1233	0.1388	0.1394	0.1393	-----	-----	0.130	3.03	1.00	1.00	8.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl Acetate	1	0	Avg	0.0924	0.0994	0.0858	0.0874	0.0916	0.0953	0.0935	-----	-----	0.0922	3.35	1.00	1.00	5.0	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl-t-butyl ether	1	0	Avg	0.2003	0.2079	0.2005	0.2214	0.2405	0.2629	0.2591	0.1936	-----	0.223	3.68	1.00	1.00	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethane	1	0	Avg	0.1536	0.1695	0.1455	0.1676	0.1863	0.1851	0.1831	-----	-----	0.170	4.03	1.00	1.00	9.4	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,2-Dichloroethe	1	0	Avg	0.0896	0.1053	0.1133	0.1081	0.1163	0.1140	0.1171	-----	-----	0.109	3.68	1.00	1.00	8.8	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl-t-butyl ether	1	0	Avg	0.0281	0.0301	0.0274	0.0320	0.0347	0.0358	0.0359	-----	-----	0.0320	4.07	1.00	1.00	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,2-Dichloroethene	1	0	Avg	0.1520	0.1620	0.1487	0.1683	0.1847	0.1856	0.1873	-----	-----	0.170	4.44	1.00	1.00	9.6	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromochloromethane	1	0	Avg	0.0693	0.0780	0.0836	0.0773	0.0801	0.0806	0.0785	-----	-----	0.0782	4.59	1.00	1.00	5.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2,2-Dichloropropane	1	0	Avg	0.1174	0.1358	0.1299	0.1382	0.1554	0.1544	0.1592	-----	-----	0.142	4.45	1.00	1.00	11		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl acetate	1	0	Avg	0.0961	0.1118	0.1007	0.1024	0.1050	0.1093	0.1139	-----	-----	0.106	4.46	1.00	1.00	6.1		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dioxane	1	0	Avg	0.0017	0.0019	0.0015	0.0018	0.0019	0.0019	0.0018	-----	-----	0.00184	5.51	0.999	1.00	8.8		1000.	250.0	100.0	2500.	5000.	12500	25000		
1,1-Dichloropropene	1	0	Avg	0.1124	0.1274	0.1285	0.1322	0.1513	0.1459	0.1468	-----	-----	0.135	4.85	1.00	1.00	10		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chloroform	1	0	Avg	0.1846	0.2067	0.1844	0.2019	0.2151	0.2172	0.2143	-----	-----	0.203	4.64	1.00	1.00	6.9	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromofluoromethan	1	0	Avg	0.2853	0.2984	0.3066	0.2871	0.2846	0.2843	0.2871	0.3007	0.3059	0.293	4.73	-1	-1	3.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.0916	0.1041	0.0956	0.1123	0.1333	0.1283	0.1316	-----	-----	0.114	4.81	1.00	1.00	15	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloroethane-d4	1	0	Avg	0.1421	0.1450	0.1456	0.1384	0.1384	0.1355	0.1395	0.1500	0.1508	0.143	4.93	-1	-1	3.8		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.1443	0.1647	0.1592	0.1544	0.1564	0.1693	0.1744	-----	-----	0.160	4.98	1.00	1.00	6.3	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Butanone	1	0	Qua	0.0475	0.0679	0.0319	0.0508	0.0573	0.0612	0.0508	-----	-----	0.0525	4.44	0.990	0.998	22	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,1-Trichloroethane	1	0	Avg	0.1547	0.1806	0.1692	0.1744	0.1971	0.1941	0.1940	-----	-----	0.181	4.76	1.00	1.00	8.7	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Carbon Tetrachloride	1	0	Avg	0.1479	0.1710	0.1701	0.1679	0.1891	0.1811	0.1826	-----	-----	0.173	4.87	1.00	1.00	7.8	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Vinyl Acetate	1	0	Avg	0.2054	0.2284	0.1995	0.2362	0.2575	0.2711	0.2650	-----	-----	0.238	4.06	1.00	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromodichloromethan	1	0	Avg	0.1460	0.1646	0.1635	0.1612	0.1685	0.1763	0.1760	-----	-----	0.165	5.59	1.00	1.00	6.3	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Avg Rsd: 12.78

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101411 0041

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_6

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	6M159203.D	CAL @ 20 PPB	09/08/22 20:40	2	6M159201.D	CAL @ 5 PPB	09/08/22 19:56
3	6M159202.D	CAL @ 2 PPB	09/08/22 20:18	4	6M159204.D	CAL @ 50 PPB	09/08/22 21:02
5	6M159207.D	CAL @100 PPB	09/08/22 22:07	6	6M159206.D	CAL @ 250 PPB	09/08/22 21:46
7	6M159205.D	CAL @500 PPB	09/08/22 21:24	8	6M159200.D	CAL @ 1 PPB	09/08/22 19:34
9	6M159199.D	CAL @ 0.5 PPB	09/08/22 19:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Qua	0.1110	0.1123	0.1136	0.1415	0.1711	0.1657	0.1800	-----	-----	0.142	5.45	0.999	1.00	21	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromomethane	1	0	Avg	0.0908	0.0983	0.0868	0.0941	0.0946	0.0999	0.0986	-----	-----	0.0948	5.53	1.00	1.00	5.0		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichloropropane	1	0	Avg	0.0889	0.1021	0.1017	0.0987	0.1075	0.1095	0.1139	-----	-----	0.103	5.45	1.00	1.00	7.9	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Trichloroethene	1	0	Avg	0.1137	0.1358	0.1306	0.1258	0.1400	0.1390	0.1423	-----	-----	0.132	5.33	1.00	1.00	7.6	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Benzene	1	0	Avg	0.3611	0.3925	0.3810	0.4079	0.4424	0.4598	0.4810	0.4403	-----	0.421	4.98	0.999	1.00	9.9	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
tert-Amyl methyl ether	1	0	Avg	0.1782	0.1769	0.1652	0.2039	0.2229	0.2373	0.2405	-----	-----	0.204	5.02	1.00	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Iso-propylacetate	1	0	Avg	0.1799	0.1890	0.1773	0.1987	0.2162	0.2419	0.2395	-----	-----	0.206	4.98	0.999	0.999	13	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Methyl methacrylate	1	0	Avg	0.0898	0.0909	0.0742	0.1046	0.1079	0.1162	0.1047	-----	-----	0.0984	5.48	0.997	0.999	14	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Dibromochloromethan	1	0	Avg	0.1516	0.1740	0.1725	0.1654	0.1696	0.1775	0.1705	-----	-----	0.169	6.45	1.00	1.00	5.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chloroethylvinylethe	1	0	Qua	0.0000	0.0005	0.0010	0.0002	0.0002	0.0002	0.0002	-----	-----	0.000370	5.74	0.992	0.999	90		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
cis-1,3-Dichloropropen	1	0	Avg	0.1684	0.1793	0.1703	0.1942	0.2087	0.2207	0.2134	-----	-----	0.194	5.83	1.00	1.00	11	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
trans-1,3-Dichloroprop	1	0	Avg	0.1638	0.1662	0.1913	0.1864	0.1938	0.2054	0.1977	-----	-----	0.186	6.11	1.00	1.00	8.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethyl methacrylate	1	0	Avg	0.0884	0.0917	0.0793	0.1039	0.1119	0.1208	0.1132	-----	-----	0.101	6.14	0.999	0.999	15	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,1,2-Trichloroethane	1	0	Avg	0.1186	0.1261	0.1294	0.1263	0.1243	0.1283	0.1208	-----	-----	0.125	6.22	0.999	1.00	3.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromoethane	1	0	Avg	0.1290	0.1379	0.1308	0.1365	0.1376	0.1427	0.1360	0.1375	0.1375	0.136	6.52	0.999	1.00	3.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	0.50
1,3-Dichloropropane	1	0	Avg	0.1905	0.1971	0.2029	0.2000	0.2068	0.2128	0.2061	-----	-----	0.202	6.31	1.00	1.00	3.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Methyl-2-Pentanone	1	0	Avg	0.0948	0.0937	0.1214	0.1134	0.1174	0.1271	0.1162	-----	-----	0.112	5.89	0.998	0.999	12	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Hexanone	1	0	Avg	0.0764	0.0860	0.0830	0.0819	0.0902	0.0941	0.0859	-----	-----	0.0854	6.32	0.998	0.999	6.7	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Tetrachloroethene	1	0	Avg	0.1068	0.1242	0.1235	0.1231	0.1320	0.1286	0.1288	-----	-----	0.124	6.32	1.00	1.00	6.6	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Toluene-d8	1	0	Avg	1.1313	1.1066	1.0896	1.1431	1.1298	1.1354	1.1148	1.0965	1.0785	1.11	5.98	-1	-1	2.0		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.2753	0.3239	0.3292	0.3172	0.3377	0.3382	0.3440	0.3789	-----	0.331	6.02	1.00	1.00	8.8	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.1336	0.1450	0.1401	0.1447	0.1493	0.1549	0.1549	-----	-----	0.146	6.81	1.00	1.00	5.3		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Chlorobenzene	1	0	Avg	0.3417	0.3681	0.3913	0.3792	0.3956	0.4014	0.4008	-----	-----	0.383	6.78	1.00	1.00	5.7	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Butyl acrylate	1	0	Avg	0.2463	0.2244	0.2643	0.2971	0.3412	0.3791	0.3666	-----	-----	0.303	7.01	0.999	0.999	20	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Amyl acetate	1	0	Avg	0.2207	0.2080	0.2073	0.2603	0.2997	0.3206	0.3318	-----	-----	0.264	7.13	0.999	1.00	20	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromoform	1	0	Avg	0.1718	0.1911	0.2078	0.1846	0.1907	0.2058	0.1962	-----	-----	0.193	7.23	0.999	1.00	6.4	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Ethylbenzene	1	0	Avg	0.2109	0.2088	0.2586	0.2272	0.2600	0.2805	0.3006	0.2022	-----	0.244	6.82	0.998	1.00	15	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.2530	0.2677	0.2884	0.2571	0.2638	0.2751	0.2623	-----	-----	0.267	7.44	0.999	1.00	4.5	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Bromofluorobenzene	1	0	Avg	0.7290	0.7207	0.7178	0.7384	0.7458	0.7656	0.7511	0.7143	0.7203	0.734	7.39	-1	-1	2.4		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	0.4867	0.4789	0.4949	0.5898	0.6391	0.7206	0.7488	-----	-----	0.594	7.10	0.999	1.00	19	0.30	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
m&p-Xylenes	1	0	Avg	0.2845	0.2864	0.2826	0.3471	0.3770	0.4071	0.4313	0.3054	0.2706	0.332	6.87	0.999	1.00	18	0.10	40.00	10.00	4.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.2904	0.3123	0.2947	0.3468	0.3756	0.4168	0.4363	0.3385	-----	0.351	7.10	0.999	1.00	15	0.30 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.0978	0.1105	0.1058	0.1108	0.1179	0.1262	0.1283	-----	-----	0.114	7.46	1.00	1.00	9.6		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3-Dichlorobenzene	1	0	Avg	0.4133	0.4467	0.4270	0.4749	0.4841	0.5064	0.5353	-----	-----	0.470	8.01	0.999	1.00	9.3	0.60 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,4-Dichlorobenzene	1	0	Avg	0.4223	0.4763	0.5109	0.4710	0.4798	0.4959	0.5104	-----	-----	0.481	8.06	1.00	1.00	6.3	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dichlorobenzene	1	0	Avg	0.4011	0.4474	0.4402	0.4499	0.4574	0.4766	0.4855	-----	-----	0.451	8.29	1.00	1.00	6.1	0.40	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Isopropylbenzene	1	0	Avg	0.7115	0.7223	0.6889	0.8675	0.9665	0.9940	1.0263	0.6325	-----	0.826	7.29	1.00	1.00	19	0.10	20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0090	0.0137	0.0133	0.0097	0.0103	0.0122	0.0114	-----	-----	0.0114	7.36	0.998	0.998	16		100.0	25.00	10.00	250.0	500.0	1250.	2500.		
Camphene	1	0	Qua	0.2214	0.2283	0.2002	0.2825	0.3314	0.3394	0.3601	-----	-----	0.281	7.46	0.999	1.00	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichloropropane	1	0	Avg	0.2897	0.3149	0.3190	0.3130	0.3232	0.3526	0.3632	-----	-----	0.325	7.48	0.999	1.00	7.7		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
2-Chlorotoluene	1	0	Avg	0.4839	0.5077	0.5104	0.5585	0.5829	0.6326	0.6710	-----	-----	0.564	7.59	0.999	1.00	12		20.00	5.00	2.00	50.00	100.0	250.0	500.0		

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.78

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101411 0042

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_6

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	6M159203.D	CAL @ 20 PPB	09/08/22 20:40	2	6M159201.D	CAL @ 5 PPB	09/08/22 19:56
3	6M159202.D	CAL @ 2 PPB	09/08/22 20:18	4	6M159204.D	CAL @ 50 PPB	09/08/22 21:02
5	6M159207.D	CAL @100 PPB	09/08/22 22:07	6	6M159206.D	CAL @ 250 PPB	09/08/22 21:46
7	6M159205.D	CAL @500 PPB	09/08/22 21:24	8	6M159200.D	CAL @ 1 PPB	09/08/22 19:34
9	6M159199.D	CAL @ 0.5 PPB	09/08/22 19:13				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Qua	0.7355	0.7261	0.6713	0.8995	0.9829	1.0322	1.1744	-----	-----	0.889	7.57	0.997	1.00	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
4-Chlorotoluene	1	0	Avg	0.4555	0.4779	0.4318	0.5376	0.5651	0.5856	0.6337	-----	-----	0.527	7.65	0.999	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
n-Propylbenzene	1	0	Avg	0.8311	0.8304	0.8198	1.0247	1.1209	1.1355	1.1722	0.7379	-----	0.959	7.52	1.00	1.00	18		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	0.4696	0.5098	0.5314	0.5359	0.5700	0.5933	0.6201	-----	-----	0.547	7.49	0.999	1.00	9.4		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,3,5-Trimethylbenzen	1	0	Qua	0.6237	0.5905	0.5519	0.7235	0.7824	0.8482	0.7998	0.4019	-----	0.665	7.60	0.999	0.999	23		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.1810	0.1777	0.2205	0.2123	0.2357	0.2651	0.2769	-----	-----	0.224	7.60	0.999	1.00	17	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
t-Butylbenzene	1	0	Avg	0.5965	0.5823	0.5378	0.7240	0.8039	0.8272	0.8655	0.5203	-----	0.682	7.80	0.999	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	0.6052	0.5560	0.5696	0.7393	0.7949	0.8320	0.8844	0.5393	-----	0.690	7.82	0.999	1.00	20		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Qua	0.7322	0.6792	0.6151	0.9063	1.0162	1.0418	1.0799	0.4979	-----	0.821	7.93	1.00	1.00	27		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Qua	0.6341	0.5923	0.5463	0.7909	0.8859	0.9235	0.9647	0.5152	-----	0.732	7.99	0.999	1.00	25		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Qua	0.6922	0.6704	0.5831	0.8689	0.9520	0.9975	1.0663	0.4585	-----	0.786	8.23	0.999	1.00	28		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Qua	0.3664	0.3387	0.3418	0.4687	0.5256	0.5661	0.6033	-----	-----	0.459	8.21	0.999	1.00	24		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4,5-Tetramethylbe	1	0	Qua	0.4549	0.4413	0.4400	0.6138	0.7289	0.7923	0.8374	-----	-----	0.616	8.68	0.999	1.00	28		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2-Dibromo-3-Chloro	1	0	Avg	0.0706	0.0754	0.0905	0.0761	0.0772	0.0824	0.0778	-----	-----	0.0786	8.73	0.999	1.00	8.0	0.05	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Camphor	1	0	Qua	0.0173	0.0172	0.0177	0.0225	0.0285	0.0311	0.0318	-----	-----	0.0238	9.17	0.999	0.999	28		200.0	50.00	20.00	500.0	1000.	2500.	5000.		
Hexachlorobutadiene	1	0	Avg	0.1492	0.1333	0.1222	0.1749	0.1895	0.1911	0.2013	-----	-----	0.166	9.31	0.999	1.00	19		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,4-Trichlorobenzen	1	0	Avg	0.2595	0.2641	0.2640	0.3174	0.3250	0.3433	0.3525	-----	-----	0.304	9.23	1.00	1.00	13	0.20	20.00	5.00	2.00	50.00	100.0	250.0	500.0		
1,2,3-Trichlorobenzen	1	0	Avg	0.2445	0.2439	0.2249	0.2868	0.3036	0.3218	0.3262	-----	-----	0.279	9.53	1.00	1.00	15		20.00	5.00	2.00	50.00	100.0	250.0	500.0		
Naphthalene	1	0	Qua	0.6037	0.5517	0.5907	0.7510	0.8253	0.8705	0.8740	0.5330	-----	0.700	9.39	1.00	1.00	21		20.00	5.00	2.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.78
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M160488.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/14/2022 1:15:00 P Method: EPA 8260D

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.12	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	44.56	50	20	0.1	0.136	0.099	10.87	
Dichlorodifluoromethane	1	0		1.64	25.87	50	20	0.1	0.123	0.064	48.25	C1
Chloromethane	1	0		1.84	40.99	50	20	0.1	0.138	0.113	18.02	
Bromomethane	1	0		2.24	33.12	50	20	0.1	0.129	0.086	33.75	C1
Vinyl Chloride	1	0		1.92	40.40	50	20	0.1	0.144	0.116	19.20	
Chloroethane	1	0		2.33	40.42	50	20	0.1	0.093	0.075	19.17	
Trichlorofluoromethane	1	0		2.56	40.31	50	20	0.1	0.223	0.180	19.39	
Ethyl ether	1	0		2.81	42.69	50	20	0.5	0.075	0.064	14.62	
Furan	1	0		2.85	40.49	50	20	0.5	0.154	0.125	19.02	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.02	52.97	50	20	0.1	0.080	0.085	5.95	
Methylene Chloride	1	0		3.43	43.21	50	20	0.1	0.110	0.095	13.58	
Acrolein	1	0		2.92	211.66	250	20		0.015	0.013	15.34	
Acrylonitrile	1	0		3.64	37.19	50	20		0.042	0.032	25.61	C1
Iodomethane	1	0		3.17	39.93	50	20		0.131	0.127	20.14	
Acetone	1	0		3.06	206.50	250	20	0.1	0.033	0.027	17.40	
Carbon Disulfide	1	0		3.24	43.91	50	20	0.1	0.300	0.264	12.19	
t-Butyl Alcohol	1	0		3.51	168.19	250	20		0.012	0.008	32.73	C1
n-Hexane	1	0		3.91	59.95	50	20		0.090	0.108	19.91	
Di-isopropyl-ether	1	0		4.06	44.12	50	20		0.242	0.213	11.75	
1,1-Dichloroethene	1	0		3.03	46.10	50	20	0.1	0.130	0.120	7.80	
Methyl Acetate	1	0		3.34	35.44	50	20	0.1	0.092	0.065	29.12	C1
Methyl-t-butyl ether	1	0		3.67	40.05	50	20	0.1	0.223	0.179	19.90	
1,1-Dichloroethane	1	0		4.03	47.11	50	20	0.2	0.170	0.160	5.79	
trans-1,2-Dichloroethene	1	0		3.68	47.56	50	20	0.1	0.109	0.104	4.88	
Ethyl-t-butyl ether	1	0		0.00	0.00	50	20	0.5	0.032	0.028	100.00	C1
cis-1,2-Dichloroethene	1	0		4.44	45.95	50	20	0.1	0.170	0.156	8.10	
Bromochloromethane	1	0		4.59	42.99	50	20		0.078	0.067	14.02	
2,2-Dichloropropane	1	0		4.45	48.61	50	20		0.142	0.138	2.78	
Ethyl acetate	1	0		4.46	38.40	50	20		0.106	0.081	23.21	C1
1,4-Dioxane	1	0		5.51	1962.17	2500	20		0.002	0.001	21.51	C1
1,1-Dichloropropene	1	0		4.85	49.59	50	20		0.135	0.134	0.82	
Chloroform	1	0		4.63	44.55	50	20	0.2	0.203	0.181	10.90	
Dibromofluoromethane	1	0	S	4.73	27.48	75	**		0.293	0.269	8.41	
Cyclohexane	1	0		4.80	57.11	50	20	0.1	0.114	0.130	14.23	
1,2-Dichloroethane-d4	1	0	S	4.93	27.81	75	**		0.143	0.132	7.30	
1,2-Dichloroethane	1	0		4.98	41.45	50	20	0.1	0.160	0.133	17.11	
2-Butanone	1	0		4.43	29.26	50	20	0.1	0.053	0.038	41.49	C1
1,1,1-Trichloroethane	1	0		4.76	45.05	50	20	0.1	0.181	0.163	9.90	
Carbon Tetrachloride	1	0		4.86	45.60	50	20	0.1	0.173	0.158	8.80	
Vinyl Acetate	1	0		4.06	41.75	50	20		0.238	0.198	16.51	
Bromodichloromethane	1	0		5.59	41.99	50	20	0.2	0.165	0.139	16.03	
Methylcyclohexane	1	0		5.45	54.02	50	20	0.1	0.142	0.170	8.03	
Dibromomethane	1	0		5.52	39.66	50	20		0.095	0.075	20.68	C1
1,2-Dichloropropane	1	0		5.45	46.18	50	20	0.1	0.103	0.095	7.64	
Trichloroethene	1	0		5.33	45.30	50	20	0.2	0.132	0.120	9.41	
Benzene	1	0		4.98	47.83	50	20	0.5	0.421	0.403	4.34	
tert-Amyl methyl ether	1	0		5.02	44.43	50	20		0.204	0.181	11.13	
Chlorobenzene-d5	1	0	I	6.76	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.97	41.77	50	20	0.5	0.206	0.172	16.45	
Methyl methacrylate	1	0		5.48	44.69	50	20	0.5	0.098	0.088	10.62	
Dibromochloromethane	1	0		6.44	44.71	50	20	0.1	0.169	0.151	10.58	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 6M160488.D **Instrument:** GCMS 6

Cont Calibration Date/Time 10/14/2022 1:15:00 P Method: EPA 8260D

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.73	58.80	50	20		0.000	0.000	17.59	
cis-1,3-Dichloropropene	1	0		5.82	49.18	50	20	0.2	0.194	0.190	1.64	
trans-1,3-Dichloropropene	1	0		6.11	46.12	50	20	0.1	0.186	0.172	7.76	
Ethyl methacrylate	1	0		6.13	42.97	50	20	0.5	0.101	0.087	14.06	
1,1,2-Trichloroethane	1	0		6.21	47.46	50	20	0.1	0.125	0.119	5.07	
1,2-Dibromoethane	1	0		6.52	44.74	50	20	0.1	0.136	0.122	10.52	
1,3-Dichloropropane	1	0		6.31	47.73	50	20		0.202	0.193	4.55	
4-Methyl-2-Pentanone	1	0		5.89	41.76	50	20	0.1	0.112	0.094	16.48	
2-Hexanone	1	0		6.32	40.51	50	20	0.1	0.085	0.069	18.97	
Tetrachloroethene	1	0		6.32	51.76	50	20	0.2	0.124	0.128	3.51	
Toluene-d8	1	0	S	5.98	32.99	75	**		1.114	1.225	9.97	
Toluene	1	0		6.02	49.78	50	20	0.4	0.331	0.329	0.43	
1,1,1,2-Tetrachloroethane	1	0		6.81	46.04	50	20		0.146	0.135	7.92	
Chlorobenzene	1	0		6.78	50.39	50	20	0.5	0.383	0.386	0.79	
1,4-Dichlorobenzene-d4	1	0	I	8.04	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.01	53.85	50	20	0.5	0.303	0.326	7.71	
n-Amyl acetate	1	0		7.13	54.12	50	20	0.5	0.264	0.286	8.24	
Bromoform	1	0		7.23	49.23	50	20	0.1	0.193	0.190	1.54	
Ethylbenzene	1	0		6.81	59.39	50	20	0.1	0.244	0.289	18.77	
1,1,2,2-Tetrachloroethane	1	0		7.44	52.94	50	20	0.1	0.267	0.283	5.88	
Bromofluorobenzene	1	0	S	7.39	31.18	75	**		0.734	0.763	3.94	
Styrene	1	0		7.10	59.46	50	20	0.3	0.594	0.707	18.93	
m&p-Xylenes	1	0		6.87	131.38	100	20	0.1	0.332	0.437	31.38	C1
o-Xylene	1	0		7.10	59.71	50	20	0.3	0.351	0.420	19.42	
trans-1,4-Dichloro-2-butene	1	0		7.46	55.23	50	20		0.114	0.126	10.46	
1,3-Dichlorobenzene	1	0		8.01	57.33	50	20	0.6	0.470	0.539	14.66	
1,4-Dichlorobenzene	1	0		8.06	56.49	50	20	0.5	0.481	0.543	12.98	
1,2-Dichlorobenzene	1	0		8.29	54.47	50	20	0.4	0.451	0.492	8.93	
Isopropylbenzene	1	0		7.29	65.05	50	20	0.1	0.826	1.075	30.10	C1
Cyclohexanone	1	0		7.36	364.95	250	20		0.011	0.017	45.98	C1
Camphene	1	0		7.46	58.11	50	20		0.281	0.372	16.22	
1,2,3-Trichloropropane	1	0		7.48	54.55	50	20		0.325	0.355	9.10	
2-Chlorotoluene	1	0		7.59	63.01	50	20		0.564	0.711	26.02	C1
p-Ethyltoluene	1	0		7.57	59.69	50	20		0.889	1.111	19.38	
4-Chlorotoluene	1	0		7.64	62.01	50	20		0.527	0.653	24.01	C1
n-Propylbenzene	1	0		7.51	70.26	50	20		0.959	1.348	40.52	C1
Bromobenzene	1	0		7.49	59.26	50	20		0.547	0.649	18.53	
1,3,5-Trimethylbenzene	1	0		7.60	54.72	50	20		0.665	0.919	9.44	
Butyl methacrylate	1	0		7.60	51.36	50	20	0.5	0.224	0.230	2.72	
t-Butylbenzene	1	0		7.80	59.10	50	20		0.682	0.806	18.20	
1,2,4-Trimethylbenzene	1	0		7.82	58.98	50	20		0.690	0.814	17.97	
sec-Butylbenzene	1	0		7.92	58.78	50	20		0.821	1.174	17.55	
4-Isopropyltoluene	1	0		7.99	56.17	50	20		0.732	0.983	12.35	
n-Butylbenzene	1	0		8.23	60.96	50	20		0.786	1.139	21.92	C1
p-Diethylbenzene	1	0		8.21	54.84	50	20		0.459	0.574	9.69	
1,2,4,5-Tetramethylbenzene	1	0		8.68	43.06	50	20		0.616	0.626	13.89	
1,2-Dibromo-3-Chloropropane	1	0		8.73	43.01	50	20	0.05	0.079	0.068	13.97	
Camphor	1	0		9.17	395.77	500	20		0.024	0.023	20.85	C1
Hexachlorobutadiene	1	0		9.31	59.90	50	20		0.166	0.199	19.80	
1,2,4-Trichlorobenzene	1	0		9.23	55.75	50	20	0.2	0.304	0.339	11.49	
1,2,3-Trichlorobenzene	1	0		9.53	54.46	50	20		0.279	0.304	8.93	
Naphthalene	1	0		9.39	40.62	50	20		0.700	0.682	18.76	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M159203.D Method: EPA 8260D

Analysis Date/Time: 09/08/22 20:40

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	487131	5.12	416366	6.76	284688	8.04								
Eval File Area Limit:	243566-974262		208183-832732		142344-569376									
Eval File Rt Limit:	4.62-5.62		6.26-7.26		7.54-8.54									

Data File	Sample#						
6M159199.D	CAL @ 0.5 PPB	440050	5.12	398764	6.76	259483	8.04
6M159200.D	CAL @ 1 PPB	431178	5.12	383517	6.76	256376	8.04
6M159201.D	CAL @ 5 PPB	414385	5.12	361393	6.76	244618	8.04
6M159202.D	CAL @ 2 PPB	449355	5.12	393635	6.76	262786	8.04
6M159203.D	CAL @ 20 PPB	487131	5.12	416366	6.76	284688	8.04
6M159204.D	CAL @ 50 PPB	504474	5.12	424979	6.76	288993	8.04
6M159205.D	CAL @500 PPB	473848	5.12	440720	6.76	278459	8.04
6M159206.D	CAL @ 250 PPB	500907	5.12	443229	6.76	289197	8.04
6M159207.D	CAL @100 PPB	482454	5.12	417448	6.76	280407	8.04
6M159210.D	ICV	510534	5.12	433179	6.76	292207	8.04

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or rnid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the cornpound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M160488.D Method: EPA 8260D

Analysis Date/Time: 10/14/22 13:15

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	893150	5.12	688413	6.76	385308	8.04								
Eval File Area Limit:	446575-1786300		344206-1376826		192654-770616									
Eval File Rt Limit:	4.62-5.62		6.26-7.26		7.54-8.54									

Data File	Sample#						
6M160486.D	50 PPB	952616	5.12	730093	6.76	416596	8.04
6M160487.D	50 PPB	905610	5.12	684020	6.76	391948	8.04
6M160489.D	BLK	836741	5.12	687106	6.76	356714	8.04
6M160490.D	BLK	885577	5.12	723710	6.76	377957	8.04
6M160491.D	BLK	919496	5.12	755023	6.76	397829	8.04
6M160492.D	DAILY BLANK	898214	5.12	728657	6.76	384298	8.04
6M160493.D	AD33782-002	938812	5.12	762626	6.76	378396	8.04
6M160494.D	AD33757-001	928239	5.12	775084	6.76	446534	8.04
6M160495.D	AD33758-001(5X)	904270	5.12	731281	6.76	405254	8.04
6M160496.D	33873-001(5X)	788715	5.12	624318	6.76	333627	8.04
6M160497.D	MBS104997	844907	5.12	667340	6.76	357391	8.04
6M160498.D	AD33838-008(MS)	911176	5.12	752557	6.76	413157	8.04
6M160499.D	MBS104999	921058	5.12	725296	6.76	399014	8.04
6M160500.D	AD33838-008(MSD)	1013867	5.12	814072	6.76	449538	8.04
6M160501.D	AD33838-008	966749	5.12	817300	6.76	439120	8.04
6M160502.D	AD33865-009	993054	5.12	808321	6.76	412174	8.04
6M160503.D	AD33776-012	981272	5.12	797480	6.76	413170	8.04
6M160504.D	AD33832-003	915915	5.12	723132	6.76	336112	8.04
6M160505.D	AD33795-001	958706	5.12	792904	6.76	409171	8.04
6M160506.D	AD33873-001	987438	5.12	831745	6.76	417861	8.04
6M160507.D	BLK	940319	5.12	742429	6.76	378696	8.04
6M160508.D	AD33892-002	922252	5.12	799688	6.76	437480	8.04
6M160509.D	AD33892-001	989965	5.12	827979	6.76	447408	8.04
6M160510.D	AD33879-001	967801	5.12	801116	6.76	427882	8.04
6M160511.D	AD33879-005	996996	5.12	865341	6.76	475848	8.04
6M160512.D	AD33879-004	953636	5.12	786228	6.76	409894	8.04
6M160513.D	BLK	770593	5.12	628985	6.76	347923	8.04
6M160514.D	AD33897-002	897989	5.12	781659	6.76	427549	8.04
6M160515.D	AD33904-001	970854	5.12	818540	6.76	439278	8.04
6M160516.D	AD33902-006(5X)	915524	5.12	737692	6.76	396386	8.04
6M160517.D	BLK	768147	5.12	618865	6.76	341907	8.04
6M160518.D	BLK	857225	5.12	740464	6.76	405184	8.04

I1 =	Fluorobenzene	I4 =		I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =			624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 6M160488.D Method: EPA 8260D

Analysis Date/Time: 10/14/22 13:15

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	893150	5.12	688413	6.76	385308	8.04								
Eval File Area Limit:	446575-1786300		344206-1376826		192654-770616									
Eval File Rt Limit:	4.62-5.62		6.26-7.26		7.54-8.54									

Data File	Sample#						
6M160519.D	BLK	904267	5.12	763523	6.76	407463	8.04
6M160520.D	BLK	959707	5.12	793215	6.76	420643	8.04
6M160521.D	AD33884-002	881717	5.12	725798	6.76	377672	8.04
6M160522.D	AD33884-004	924610	5.12	756685	6.76	401699	8.04
6M160523.D	AD33884-005	919399	5.12	756633	6.76	398807	8.04
6M160524.D	AD33884-006	930159	5.12	761427	6.76	397166	8.04

I1 =	Fluorobenzene	I4 =		I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =			624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33892-001
Client Id: SB-21SS(2-4)
Data File: 8G669266.D
Analysis Date: 10/21/22 17:42
Date Rec/Extracted: 10/14/22-10/21/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	67	U				

Worksheet #: 662267

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669266.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 17:42:52
Operator : AH/ABM/RR/KT/JR
Sample : AD33892-001
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 24 13:44:45 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.273	23369	13.297		
23)	O-Terphenyl	6.539	45721	15.998		
24)d	Diesel Range Organics(T	6.538f	490180	210.283		m
25)t	Total Petroleum Hydroca	6.538f	1799592	789.690		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

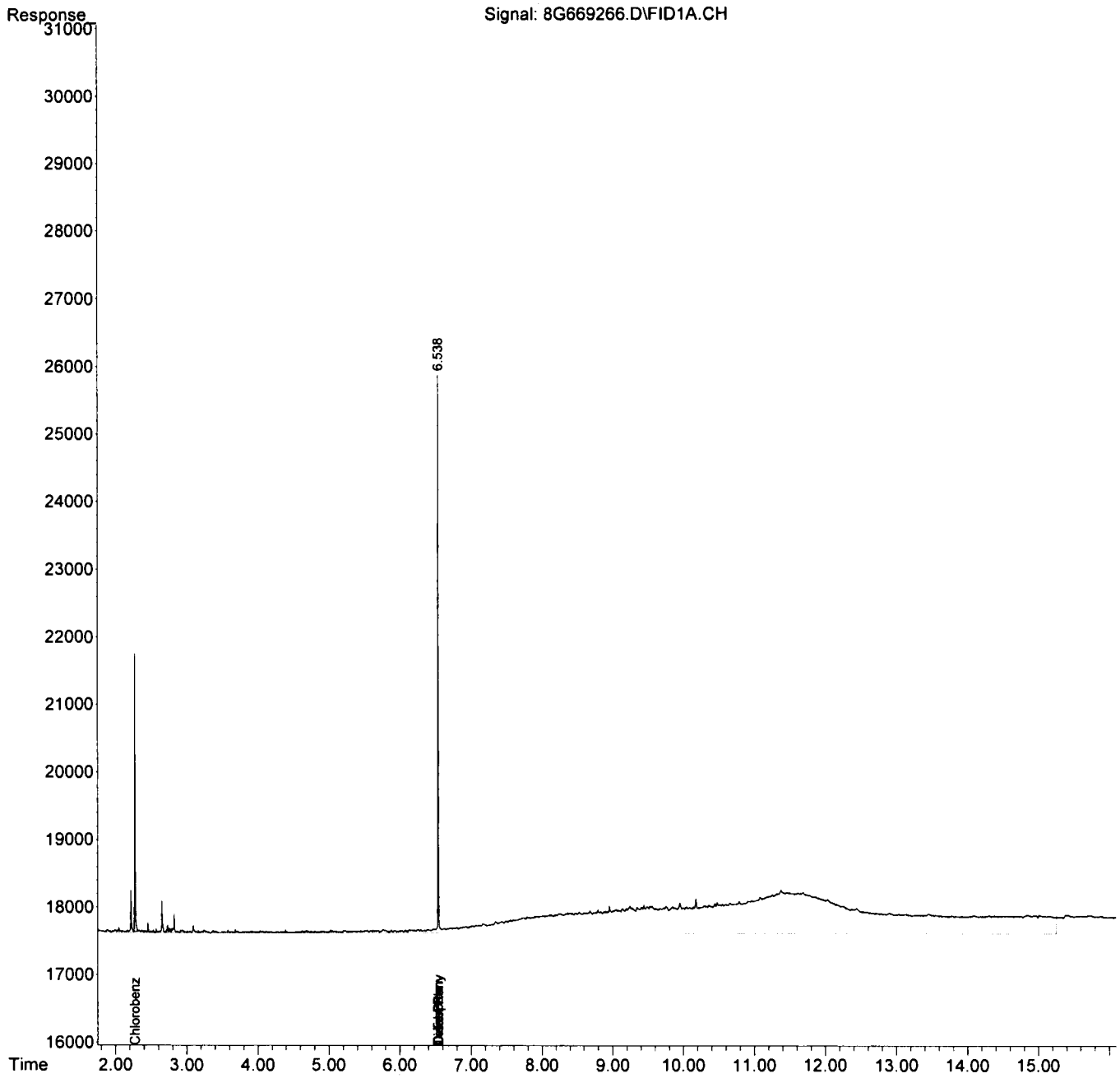
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669266.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 17:42:52
Operator : AH/ABM/RR/KT/JR
Sample : AD33892-001
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 24 13:44:45 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33892-002
Client Id: SB-22SS(2-4)
Data File: 8G669269.D
Analysis Date: 10/21/22 18:59
Date Rec/Extracted: 10/14/22-10/21/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	67	U				

Worksheet #: 662267

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669269.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 18:59:34
Operator : AH/ABM/RR/KT/JR
Sample : AD33892-002
Misc : S.TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 24 13:47:59 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.273	18998	10.809		
23)	O-Terphenyl	6.535	38727	13.551		
24)d	Diesel Range Organics(T	6.535f	162539	69.728		m
25)t	Total Petroleum Hydroca	6.535f	1130972	496.288		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

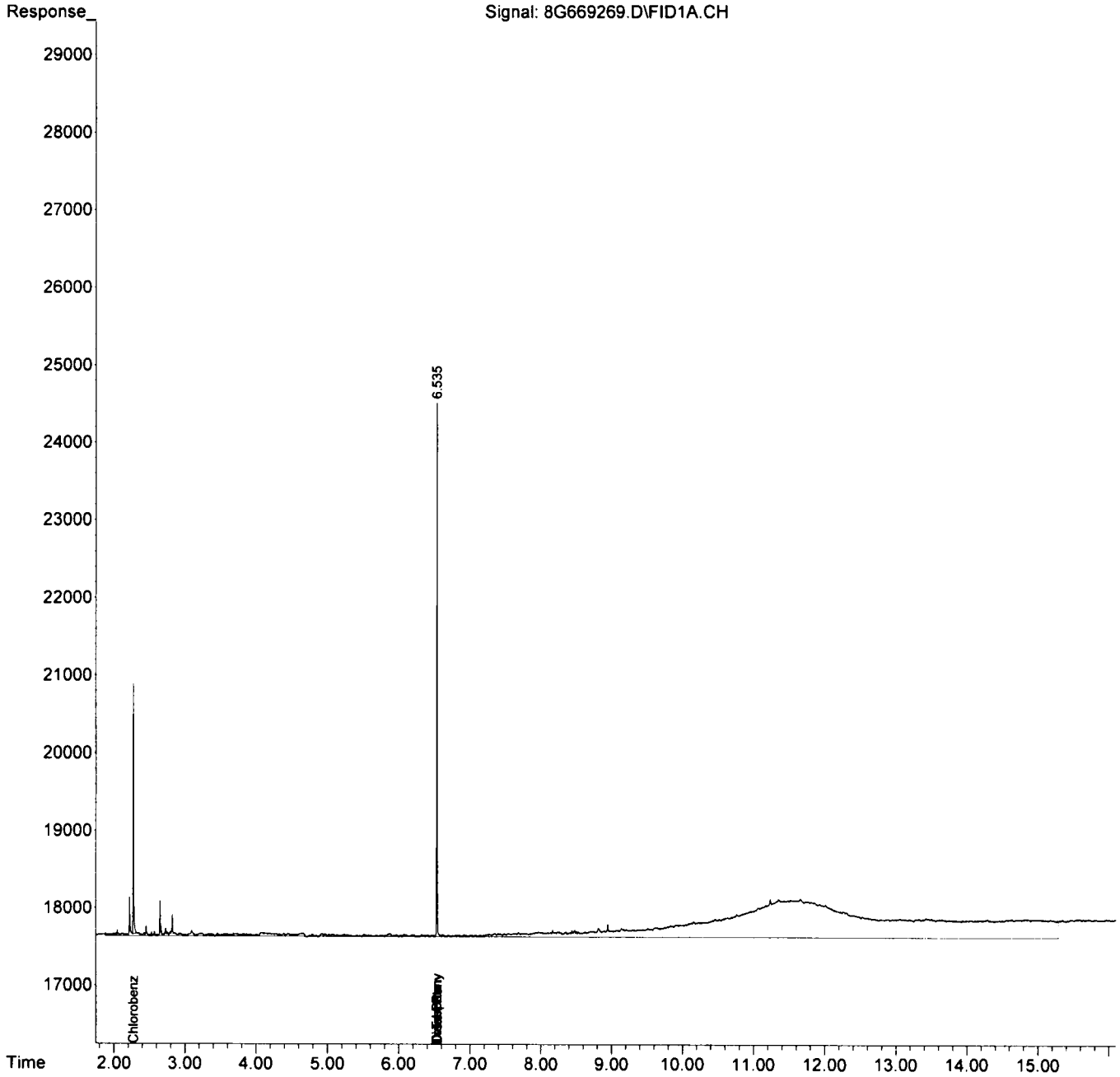
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669269.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 18:59:34
Operator : AH/ABM/RR/KT/JR
Sample : AD33892-002
Misc : S.TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 24 13:47:59 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103378
Client Id:
Data File: 8G669260.D
Analysis Date: 10/21/22 15:09
Date Rec/Extracted: NA-10/21/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 662267

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669260.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 15:09:22
Operator : AH/ABM/RR/KT/JR
Sample : SMB103378
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 15:42:52 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.275	17112	9.737		
23)	O-Terphenyl	6.604	40229	14.076		
24)d	Diesel Range Organics(T	6.603f	150560	64.589		m
25)t	Total Petroleum Hydroca	6.603f	1239775	544.033		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

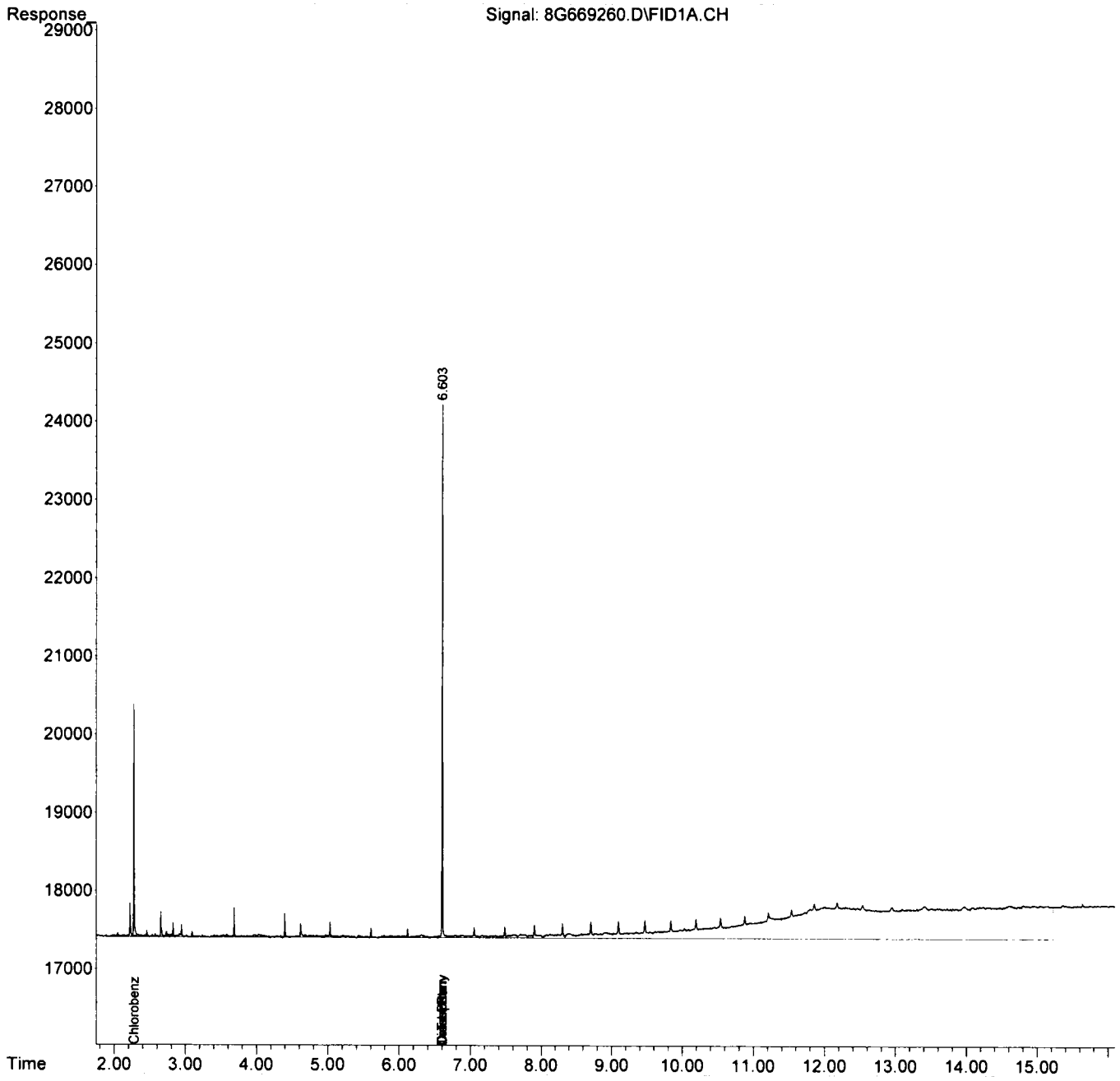
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669260.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 15:09:22
Operator : AH/ABM/RR/KT/JR
Sample : SMB103378
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 15:42:52 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669259.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 14:26:29
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 14:48:04 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)mt	C8	0.000	0	N.D.	d
2)mte	C9	0.000	0	N.D.	d
3)mdte	C10	0.000	0	N.D.	d
4)mdte	C12	0.000	0	N.D.	d
5)mdte	C14	0.000	0	N.D.	d
6)dte	C16	0.000	0	N.D.	d
7)dte	C17	0.000	0	N.D.	d
8)dte	Pristane	0.000	0	N.D.	d
9)dte	C18	0.000	0	N.D.	d
10)dte	Phytane	0.000	0	N.D.	d
11)dte	C20	0.000	0	N.D.	d
12)dte	C22	0.000	0	N.D.	d
13)dte	C24	0.000	0	N.D.	d
14)dte	C26	0.000	0	N.D.	d
15)dte	C28	0.000	0	N.D.	d
16)te	C30	0.000	0	N.D.	d
17)te	C32	0.000	0	N.D.	d
18)te	C34	0.000	0	N.D.	d
19)te	C36	0.000	0	N.D.	d
20)t	C40	0.000	0	N.D.	d
21)t	C44	0.000	0	N.D.	d
22)	Chlorobenzene	0.000	0	N.D.	d
23)	O-Terphenyl	0.000	0	N.D.	d
24)d	Diesel Range Organics(T	9.352f	81011	34.753	m
25)t	Total Petroleum Hydroca	11.801f	1323184	580.634	m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.	d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.	d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.	d

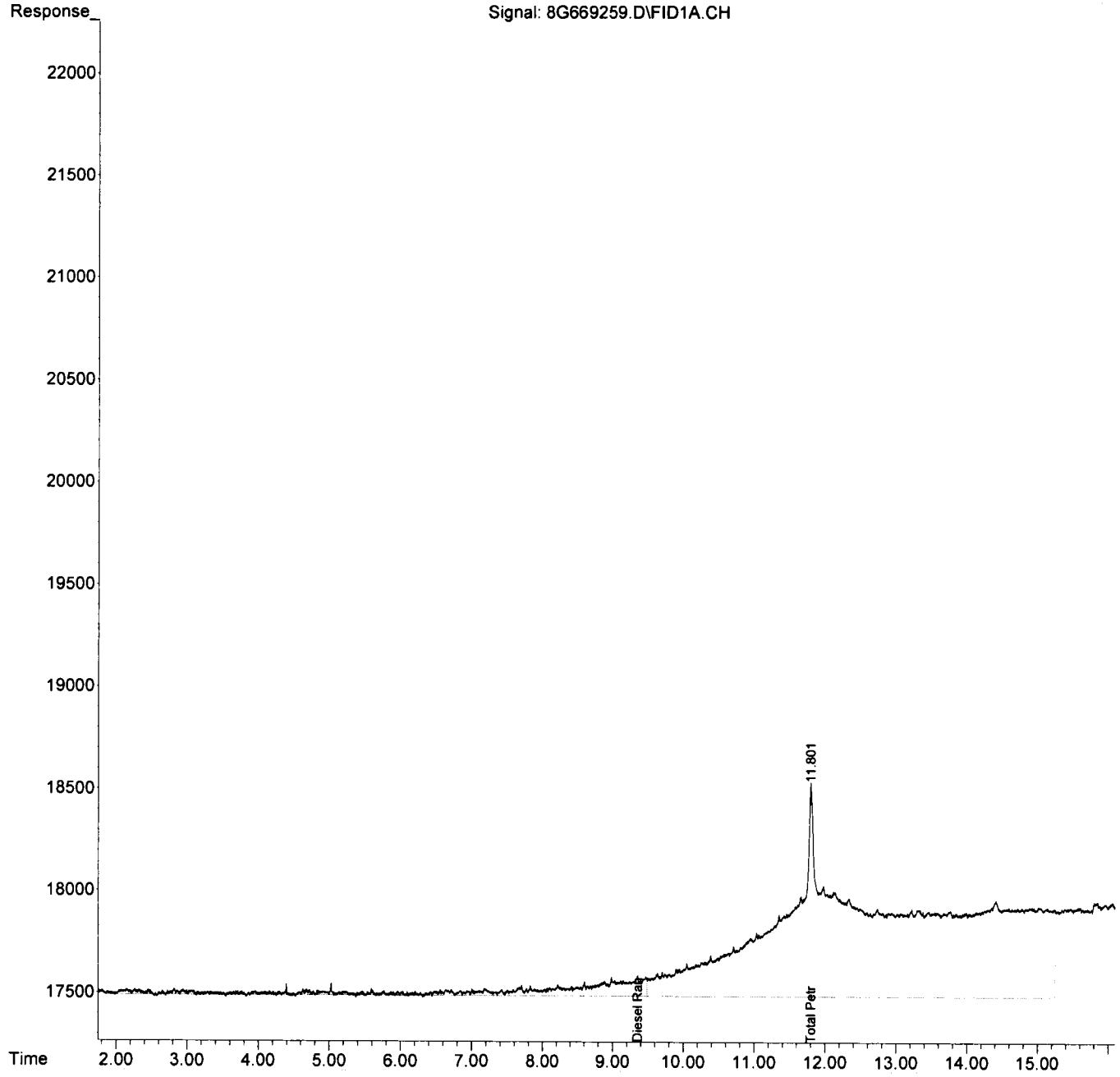
(f)=RT Delta > 1/2 Window (m)=manual int. JC7

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669259.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 14:26:29
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 14:48:04 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669260.D	SMB103378	S	10/21/22 15:09	1		49	70				
8G669267.D	AD33892-001(MS)	S	10/21/22 18:08	1		59	85				
8G669268.D	AD33892-001(MSD)	S	10/21/22 18:33	1		50	76				
8G669266.D	AD33892-001	S	10/21/22 17:42	1		66	80				
8G669269.D	AD33892-002	S	10/21/22 18:59	1		54	68				
8G669261.D	SMB103378(MS)	S	10/21/22 15:34	1		56	82				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103378

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669261.D	SMB103378(MS)	10/21/2022 3:34:44 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669259.D	INST BLK(MECL2)	10/21/2022 2:26:29 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2207.45	0	3000	74	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103378

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669267.D	AD33892-001(MS)	10/21/2022 6:08:17 PM
Non Spike(If applicable):	8G669266.D	AD33892-001	10/21/2022 5:42:52 PM
Inst Blank(If applicable):	8G669259.D	INST BLK(MECL2)	10/21/2022 2:26:29 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2504.3	159.53	3000	78	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669268.D	AD33892-001(MSD)	10/21/2022 6:33:53 PM
Non Spike(If applicable):	8G669266.D	AD33892-001	10/21/2022 5:42:52 PM
Inst Blank(If applicable):	8G669259.D	INST BLK(MECL2)	10/21/2022 2:26:29 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2113.35	159.53	3000	65	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103378

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669268.D	AD33892-001(MSD)	10/21/2022 6:33:53 PM
Duplicate(If applicable):	8G669267.D	AD33892-001(MS)	10/21/2022 6:08:17 PM
Inst Blank(If applicable):	8G669259.D	INST BLK(MECL2)	10/21/2022 2:26:29 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	2113.35	2504.3	17	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103378
Blank Data File: 8G669260.D
Matrix: Soil

Blank Analysis Date: 10/21/22 15:09
Blank Extraction Date: 10/21/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33892-001	8G669266.D	10/21/22 17:42
AD33892-002	8G669269.D	10/21/22 18:59
AD33892-001(MSD	8G669268.D	10/21/22 18:33
AD33892-001(MS)	8G669267.D	10/21/22 18:08
SMB103378(MS)	8G669261.D	10/21/22 15:34

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669256.D	INST BLK(MECL2)	10/21/22 08:17	Aqueous					
8G669257.D	TPH@20PPM	10/21/22 10:14	Aqueous					
8G669258.D	CALTPH@20PPM	10/21/22 13:58	Aqueous	8G66925	6.6965	0		
8G669259.D	INST BLK(MECL2)	10/21/22 14:26	Aqueous	8G66925	0.0000	200		
8G669260.D	SMB103378	10/21/22 15:09	Soil	8G66925	6.6037	1.3955		
8G669261.D	SMB103378(MS)	10/21/22 15:34	Soil	8G66925	6.5475	2.2501		
8G669262.D	SMB103379	10/21/22 16:00	Soil	8G66925	6.5412	2.3463		
8G669263.D	SMB103379(MS)	10/21/22 16:25	Soil	8G66925	6.5397	2.3693		
8G669264.D	SMB(DUP)	10/21/22 16:51	Soil	8G66925	6.5401	2.3631		
8G669265.D	SMB(DUP)(MS)	10/21/22 17:16	Soil	8G66925	6.5418	2.3372		
8G669266.D	AD33892-001	10/21/22 17:42	Soil	8G66925	6.5386	2.3861		
8G669267.D	AD33892-001(MS)	10/21/22 18:08	Soil	8G66925	6.5363	2.4213		
8G669268.D	AD33892-001(MSD)	10/21/22 18:33	Soil	8G66925	6.5399	2.3662		
8G669269.D	AD33892-002	10/21/22 18:59	Soil	8G66925	6.5352	2.4381		
8G669270.D	AD34010-001	10/21/22 19:24	Soil	8G66925	6.5396	2.3708		
8G669271.D	AD34010-001(MS)	10/21/22 19:50	Soil	8G66925	6.5312	2.4993		
8G669272.D	AD34010-001(MSD)	10/21/22 20:16	Soil	8G66925	6.5277	2.5529		
8G669273.D	AD33998-011	10/21/22 20:41	Soil	8G66925	6.5248	2.5973		
8G669274.D	AD33983-008	10/21/22 21:07	Soil	8G66925	6.5270	2.5636		
8G669275.D	AD33983-028	10/21/22 21:32	Soil	8G66925	6.5240	2.6096		
8G669276.D	AD33983-026	10/21/22 21:58	Soil	8G66925	6.5264	2.5728		
8G669277.D	AD33983-024	10/21/22 22:23	Soil	8G66925	6.5410	2.3494		
8G669278.D	TEST	10/21/22 22:49	Aqueous	8G66925	0.0000	200		
8G669279.D	CALTPH@20PPM	10/22/22 00:05	Aqueous	8G66925	6.5244	2.6034		
8G669280.D	CALTPH@20PPM	10/22/22 00:31	Aqueous	8G66927	6.5235	0.0138		
8G669281.D	INST BLK (MECL2)	10/22/22 00:57	Aqueous	8G66927	0.0000	200		
8G669282.D	AD34010-005	10/22/22 01:22	Soil	8G66927	6.5198	0.0705		
8G669283.D	AD34010-003	10/22/22 01:48	Soil	8G66927	6.5250	0.0092		
8G669284.D	AD33998-051	10/22/22 02:13	Soil	8G66927	6.5224	0.0307		
8G669285.D	AD33998-009	10/22/22 02:39	Soil	8G66927	6.5244	0		
8G669286.D	AD33998-007	10/22/22 03:05	Soil	8G66927	6.5216	0.0429		
8G669287.D	AD34010-019	10/22/22 03:30	Soil	8G66927	6.5207	0.0567		
8G669288.D	AD34010-017	10/22/22 03:56	Soil	8G66927	6.5225	0.0291		
8G669289.D	AD34010-015	10/22/22 04:22	Soil	8G66927	6.5206	0.0583		
8G669290.D	AD34010-013	10/22/22 04:47	Soil	8G66927	6.5218	0.0399		
8G669291.D	AD33983-014(5X)	10/22/22 05:13	Soil	8G66927	6.5212	0.0491		
8G669292.D	AD34010-007	10/22/22 05:38	Soil	8G66927	6.5279	0.0536		
8G669293.D	AD34010-009	10/22/22 06:04	Soil	8G66927	6.5257	0.0199		
8G669294.D	AD34010-011	10/22/22 06:30	Soil	8G66927	6.5389	0.222		
8G669295.D	TEST	10/22/22 06:55	Aqueous	8G66927	0.0000	200		
8G669296.D	CALTPH@20PPM	10/22/22 08:12	Aqueous	8G66927	6.5290	0.0705		
8G669297.D	CALTPH@20PPM	10/22/22 08:37	Aqueous	8G66927	6.5271	0.0414		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101411 0067

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669258.D			8G669279.D												
Method:				8015			8015												
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM												
Calibration Date/Time				10/21/22 13:58			10/22/22 00:05												
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	21.25	20	6.3	18.99	20	5.1									
C9	20	1	0	20.74	20	3.7	18.62	20	6.9									
C10	20	1	0	20.88	20	4.4	18.2	20	9.0									
C12	20	1	0	20.74	20	3.7	17.79	20	11.1									
C14	20	1	0	20.4	20	2.0	18.6	20	7.0									
C16	20	1	0	20.47	20	2.3	18.33	20	8.4									
C17	20	1	0	21.51	20	7.6	21.12	20	5.6									
Pristane	20	1	0	19.74	20	1.3	17.8	20	11.0									
C18	20	1	0	20.51	20	2.6	18.25	20	8.8									
Phytane	20	1	0	20.12	20	0.6	18.67	20	6.6									
C20	20	1	0	20.55	20	2.7	18.56	20	7.2									
C22	20	1	0	20.51	20	2.6	18.48	20	7.6									
C24	20	1	0	20.88	20	4.4	18.85	20	5.7									
C26	20	1	0	21.17	20	5.9	19.28	20	3.6									
C28	20	1	0	21.42	20	7.1	19.73	20	1.4									
C30	20	1	0	21.47	20	7.3	19.4	20	3.0									
C32	20	1	0	21.13	20	5.6	19.2	20	4.0									
C34	20	1	0	18.27	20	8.6	19.75	20	1.3									
C36	20	1	0	12.91	20	35.5*	19.98	20	0.1									
C40	20	1	0	6.04	20	69.8*	19.39	20	3.1									
C44	20	1	0	4.51	20	77.5*	20.91	20	4.5									
Chlorobenzene	20	1	0	21.5	20	7.5	19.06	20	4.7									
O-Terphenyl	20	1	0	20.76	20	3.8	18.8	20	6.0									
Average Difference	20	1	0			11.9			5.7									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.70	(6.66 - 6.74)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33892-001
Client Id: SB-21SS(2-4)
Data File: 8G669266.D
Analysis Date: 10/21/22 17:42
Date Rec/Extracted: 10/14/22-10/21/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	67	U				

Worksheet #: 662270

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669266.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 17:42:52
Operator : AH/ABM/RR/KT/JR
Sample : AD33892-001
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 24 13:44:45 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.273	23369	13.297		
23)	O-Terphenyl	6.539	45721	15.998		
24)d	Diesel Range Organics(T	6.538f	490180	210.283		m
25)t	Total Petroleum Hydroca	6.538f	1799592	789.690		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

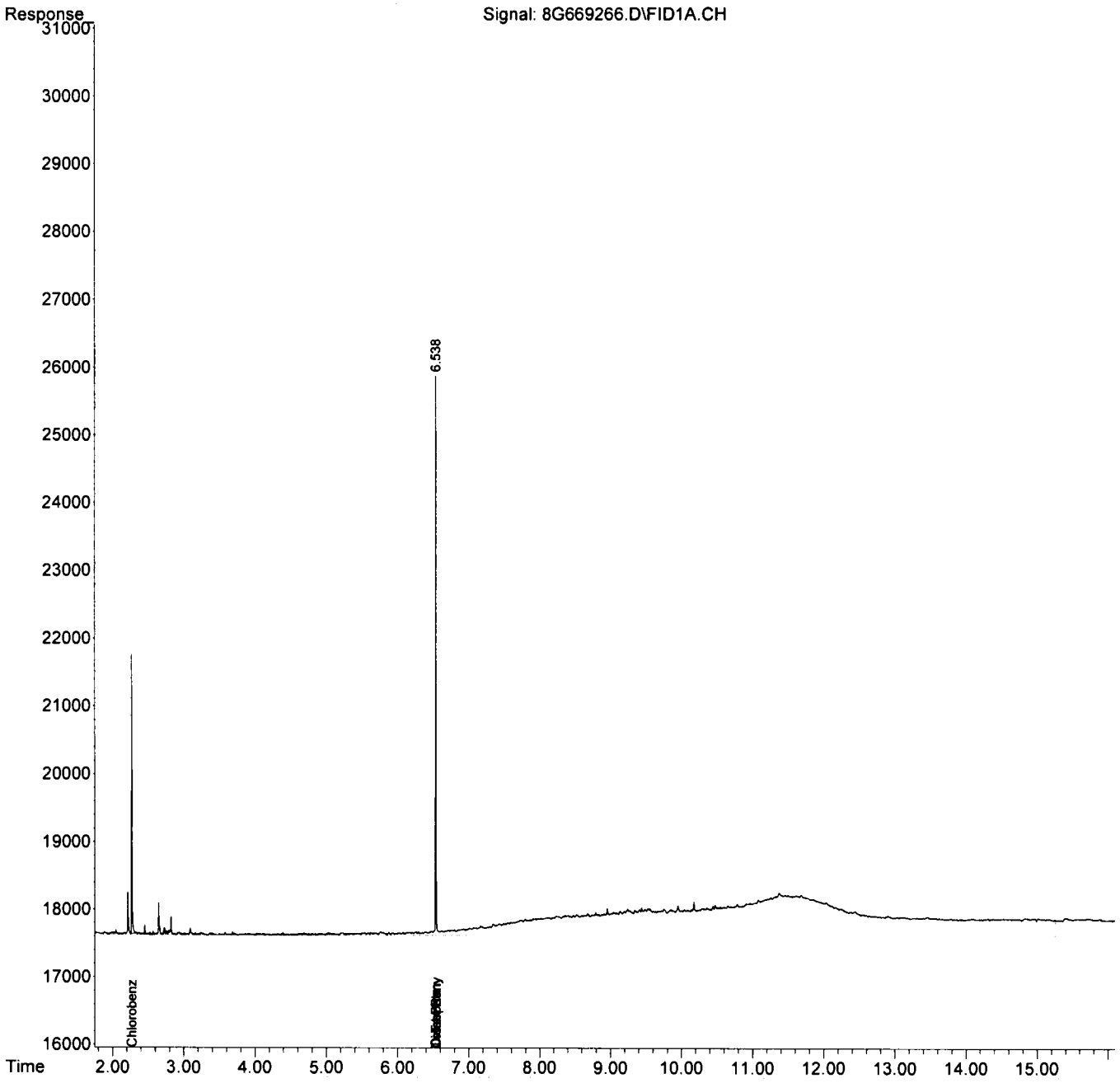
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669266.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 17:42:52
Operator : AH/ABM/RR/KT/JR
Sample : AD33892-001
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 24 13:44:45 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33892-002
Client Id: SB-22SS(2-4)
Data File: 8G669269.D
Analysis Date: 10/21/22 18:59
Date Rec/Extracted: 10/14/22-10/21/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	67	U				

Worksheet #: 662270

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669269.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 18:59:34
Operator : AH/ABM/RR/KT/JR
Sample : AD33892-002
Misc : S.TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 24 13:47:59 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.273	18998	10.809		
23)	O-Terphenyl	6.535	38727	13.551		
24)d	Diesel Range Organics(T	6.535f	162539	69.728		m
25)t	Total Petroleum Hydroca	6.535f	1130972	496.288		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

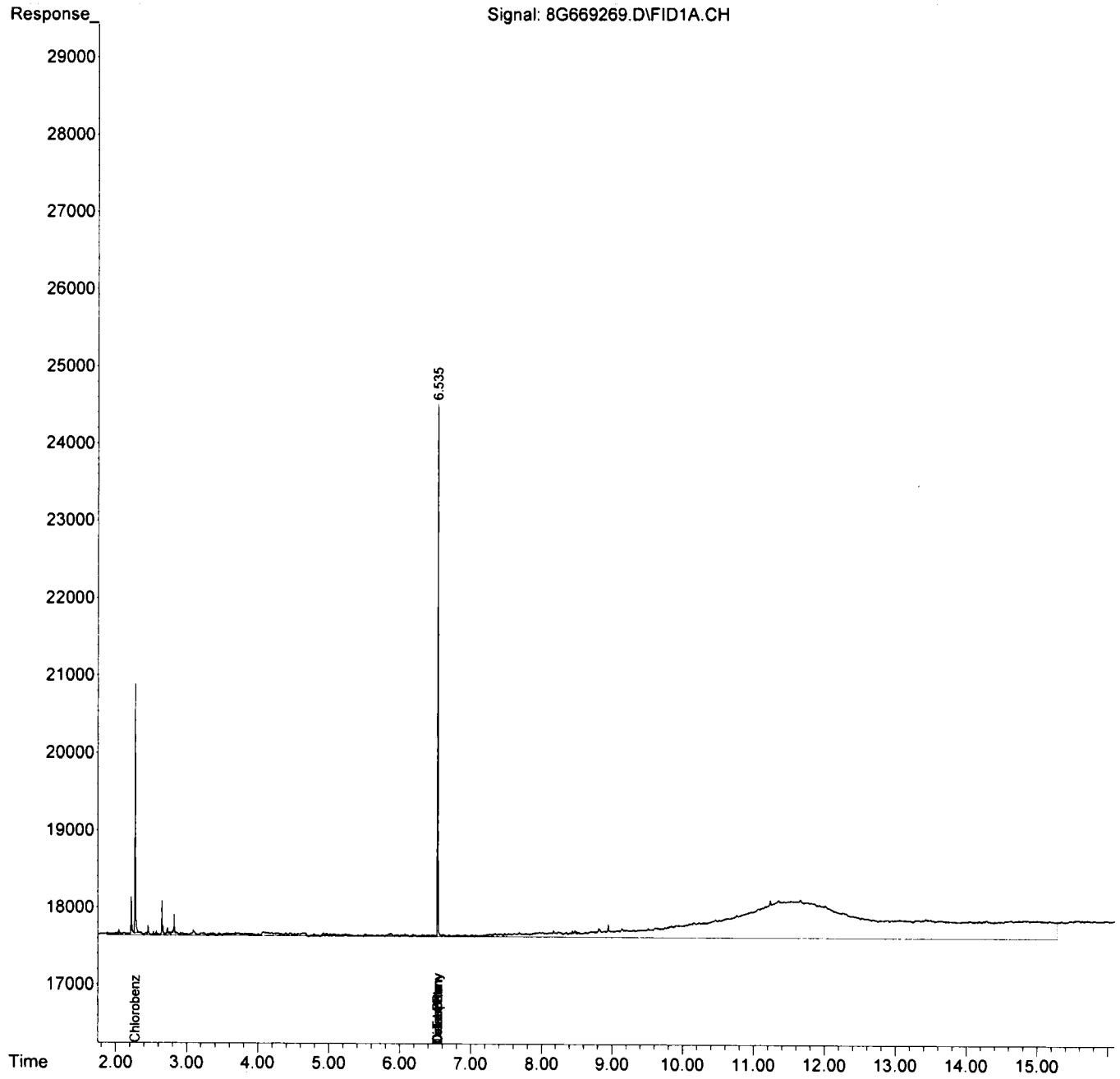
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669269.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 18:59:34
Operator : AH/ABM/RR/KT/JR
Sample : AD33892-002
Misc : S.TPH
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 24 13:47:59 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103378
Client Id:
Data File: 8G669260.D
Analysis Date: 10/21/22 15:09
Date Rec/Extracted: NA-10/21/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 662270

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669260.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 15:09:22
Operator : AH/ABM/RR/KT/JR
Sample : SMB103378
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 15:42:52 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

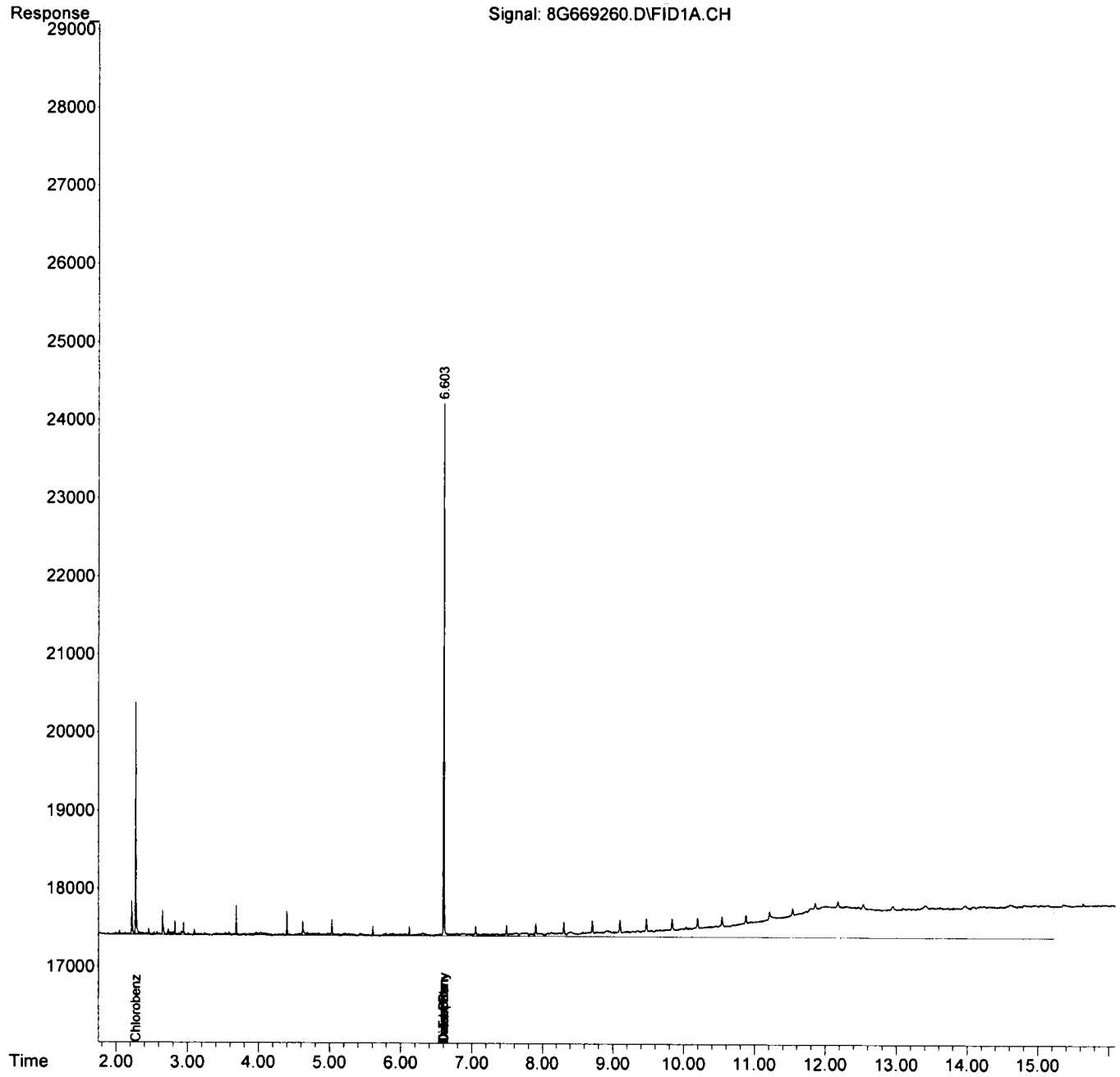
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.275	17112	9.737		
23)	O-Terphenyl	6.604	40229	14.076		
24)d	Diesel Range Organics(T	6.603f	150560	64.589		m
25)t	Total Petroleum Hydroca	6.603f	1239775	544.033		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int. KT

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669260.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 15:09:22
Operator : AH/ABM/RR/KT/JR
Sample : SMB103378
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 15:42:52 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669259.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 14:26:29
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 14:48:04 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	9.352f	81011	34.753		m
25)t	Total Petroleum Hydroca	11.801f	1323184	580.634		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

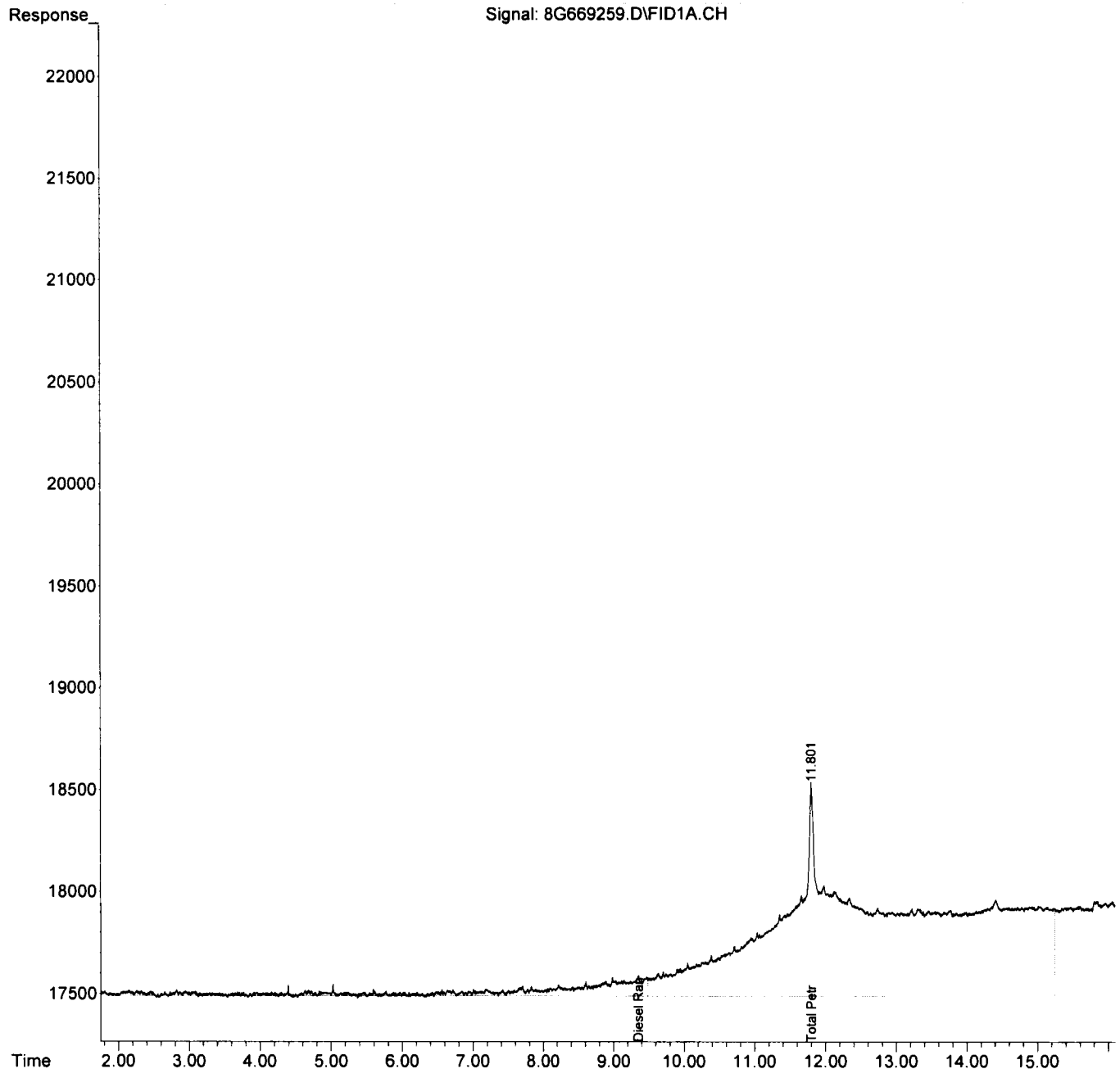
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-21-22\
Data File : 8G669259.D
Signal(s) : FID1A.CH
Acq On : 21-Oct-22, 14:26:29
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 21 14:48:04 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669260.D	SMB103378	S	10/21/22 15:09	1		49	70				
8G669267.D	AD33892-001(MS)	S	10/21/22 18:08	1		59	85				
8G669268.D	AD33892-001(MSD)	S	10/21/22 18:33	1		50	76				
8G669266.D	AD33892-001	S	10/21/22 17:42	1		66	80				
8G669269.D	AD33892-002	S	10/21/22 18:59	1		54	68				
8G669261.D	SMB103378(MS)	S	10/21/22 15:34	1		56	82				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103378

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669261.D	SMB103378(MS)	10/21/2022 3:34:44 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669259.D	INST BLK(MECL2)	10/21/2022 2:26:29 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2207.45**	**0**	**3000**	**74**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103378

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669267.D	AD33892-001(MS)	10/21/2022 6:08:17 PM
Non Spike(If applicable):	8G669266.D	AD33892-001	10/21/2022 5:42:52 PM
Inst Blank(If applicable):	8G669259.D	INST BLK(MECL2)	10/21/2022 2:26:29 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2504.3**	**159.53**	**3000**	**78**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669268.D	AD33892-001(MSD)	10/21/2022 6:33:53 PM
Non Spike(If applicable):	8G669266.D	AD33892-001	10/21/2022 5:42:52 PM
Inst Blank(If applicable):	8G669259.D	INST BLK(MECL2)	10/21/2022 2:26:29 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2113.35**	**159.53**	**3000**	**65**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103378

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669268.D	AD33892-001(MSD)	10/21/2022 6:33:53 PM
Duplicate(If applicable):	8G669267.D	AD33892-001(MS)	10/21/2022 6:08:17 PM
Inst Blank(If applicable):	8G669259.D	INST BLK(MECL2)	10/21/2022 2:26:29 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**2113.35**	**2504.3**	**17**	**40**

* -.Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103378
Blank Data File: 8G669260.D
Matrix: Soil

Blank Analysis Date: 10/21/22 15:09
Blank Extraction Date: 10/21/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33892-001	8G669266.D	10/21/22 17:42
AD33892-002	8G669269.D	10/21/22 18:59
AD33892-001(MSD	8G669268.D	10/21/22 18:33
AD33892-001(MS)	8G669267.D	10/21/22 18:08
SMB103378(MS)	8G669261.D	10/21/22 15:34

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669256.D	INST BLK(MECL2)	10/21/22 08:17	Aqueous					
8G669257.D	TPH@20PPM	10/21/22 10:14	Aqueous					
8G669258.D	CALTPH@20PPM	10/21/22 13:58	Aqueous	8G66925	6.6965	0		
8G669259.D	INST BLK(MECL2)	10/21/22 14:26	Aqueous	8G66925	0.0000	200		
8G669260.D	SMB103378	10/21/22 15:09	Soil	8G66925	6.6037	1.3955		
8G669261.D	SMB103378(MS)	10/21/22 15:34	Soil	8G66925	6.5475	2.2501		
8G669262.D	SMB103379	10/21/22 16:00	Soil	8G66925	6.5412	2.3463		
8G669263.D	SMB103379(MS)	10/21/22 16:25	Soil	8G66925	6.5397	2.3693		
8G669264.D	SMB(DUP)	10/21/22 16:51	Soil	8G66925	6.5401	2.3631		
8G669265.D	SMB(DUP)(MS)	10/21/22 17:16	Soil	8G66925	6.5418	2.3372		
8G669266.D	AD33892-001	10/21/22 17:42	Soil	8G66925	6.5386	2.3861		
8G669267.D	AD33892-001(MS)	10/21/22 18:08	Soil	8G66925	6.5363	2.4213		
8G669268.D	AD33892-001(MSD)	10/21/22 18:33	Soil	8G66925	6.5399	2.3662		
8G669269.D	AD33892-002	10/21/22 18:59	Soil	8G66925	6.5352	2.4381		
8G669270.D	AD34010-001	10/21/22 19:24	Soil	8G66925	6.5396	2.3708		
8G669271.D	AD34010-001(MS)	10/21/22 19:50	Soil	8G66925	6.5312	2.4993		
8G669272.D	AD34010-001(MSD)	10/21/22 20:16	Soil	8G66925	6.5277	2.5529		
8G669273.D	AD33998-011	10/21/22 20:41	Soil	8G66925	6.5248	2.5973		
8G669274.D	AD33983-008	10/21/22 21:07	Soil	8G66925	6.5270	2.5636		
8G669275.D	AD33983-028	10/21/22 21:32	Soil	8G66925	6.5240	2.6096		
8G669276.D	AD33983-026	10/21/22 21:58	Soil	8G66925	6.5264	2.5728		
8G669277.D	AD33983-024	10/21/22 22:23	Soil	8G66925	6.5410	2.3494		
8G669278.D	TEST	10/21/22 22:49	Aqueous	8G66925	0.0000	200		
8G669279.D	CALTPH@20PPM	10/22/22 00:05	Aqueous	8G66925	6.5244	2.6034		
8G669280.D	CALTPH@20PPM	10/22/22 00:31	Aqueous	8G66927	6.5235	0.0138		
8G669281.D	INST BLK (MECL2)	10/22/22 00:57	Aqueous	8G66927	0.0000	200		
8G669282.D	AD34010-005	10/22/22 01:22	Soil	8G66927	6.5198	0.0705		
8G669283.D	AD34010-003	10/22/22 01:48	Soil	8G66927	6.5250	0.0092		
8G669284.D	AD33998-051	10/22/22 02:13	Soil	8G66927	6.5224	0.0307		
8G669285.D	AD33998-009	10/22/22 02:39	Soil	8G66927	6.5244	0		
8G669286.D	AD33998-007	10/22/22 03:05	Soil	8G66927	6.5216	0.0429		
8G669287.D	AD34010-019	10/22/22 03:30	Soil	8G66927	6.5207	0.0567		
8G669288.D	AD34010-017	10/22/22 03:56	Soil	8G66927	6.5225	0.0291		
8G669289.D	AD34010-015	10/22/22 04:22	Soil	8G66927	6.5206	0.0583		
8G669290.D	AD34010-013	10/22/22 04:47	Soil	8G66927	6.5218	0.0399		
8G669291.D	AD33983-014(5X)	10/22/22 05:13	Soil	8G66927	6.5212	0.0491		
8G669292.D	AD34010-007	10/22/22 05:38	Soil	8G66927	6.5279	0.0536		
8G669293.D	AD34010-009	10/22/22 06:04	Soil	8G66927	6.5257	0.0199		
8G669294.D	AD34010-011	10/22/22 06:30	Soil	8G66927	6.5389	0.222		
8G669295.D	TEST	10/22/22 06:55	Aqueous	8G66927	0.0000	200		
8G669296.D	CALTPH@20PPM	10/22/22 08:12	Aqueous	8G66927	6.5290	0.0705		
8G669297.D	CALTPH@20PPM	10/22/22 08:37	Aqueous	8G66927	6.5271	0.0414		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101411 0089

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669258.D			8G669279.D										
Method:				8015			8015										
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM										
Calibration Date/Time				10/21/22 13:58			10/22/22 00:05										
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	21.25	20	6.3	18.99	20	5.1									
C9	20	1	0	20.74	20	3.7	18.62	20	6.9									
C10	20	1	0	20.88	20	4.4	18.2	20	9.0									
C12	20	1	0	20.74	20	3.7	17.79	20	11.1									
C14	20	1	0	20.4	20	2.0	18.6	20	7.0									
C16	20	1	0	20.47	20	2.3	18.33	20	8.4									
C17	20	1	0	21.51	20	7.6	21.12	20	5.6									
Pristane	20	1	0	19.74	20	1.3	17.8	20	11.0									
C18	20	1	0	20.51	20	2.6	18.25	20	8.8									
Phytane	20	1	0	20.12	20	0.6	18.67	20	6.6									
C20	20	1	0	20.55	20	2.7	18.56	20	7.2									
C22	20	1	0	20.51	20	2.6	18.48	20	7.6									
C24	20	1	0	20.88	20	4.4	18.85	20	5.7									
C26	20	1	0	21.17	20	5.9	19.28	20	3.6									
C28	20	1	0	21.42	20	7.1	19.73	20	1.4									
C30	20	1	0	21.47	20	7.3	19.4	20	3.0									
C32	20	1	0	21.13	20	5.6	19.2	20	4.0									
C34	20	1	0	18.27	20	8.6	19.75	20	1.3									
C36	20	1	0	12.91	20	35.5*	19.98	20	0.1									
C40	20	1	0	6.04	20	69.8*	19.39	20	3.1									
C44	20	1	0	4.51	20	77.5*	20.91	20	4.5									
Chlorobenzene	20	1	0	21.5	20	7.5	19.06	20	4.7									
O-Terphenyl	20	1	0	20.76	20	3.8	18.8	20	6.0									
Average Difference	20	1	0			11.9			5.7									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.70	(6.66 - 6.74)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD33892-001
Client Id: SB-21SS(2-4)
Data File: 13M25899.D
Analysis Date: 10/17/22 22:27
Date Rec/Extracted: 10/14/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 4.41g:10ml
Final Vol: NA
Dilution: 113
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	32	U				

Worksheet #: 662576

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25899.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 22:27
Operator : WP
Sample : AD33892-001
Misc : M,MEXT!4
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 22:44:35 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	System Monitoring Compounds				
1)S	1,4-Dichlorobenzene-d4	9.665f	4979	24.401	m
	Target Compounds				
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

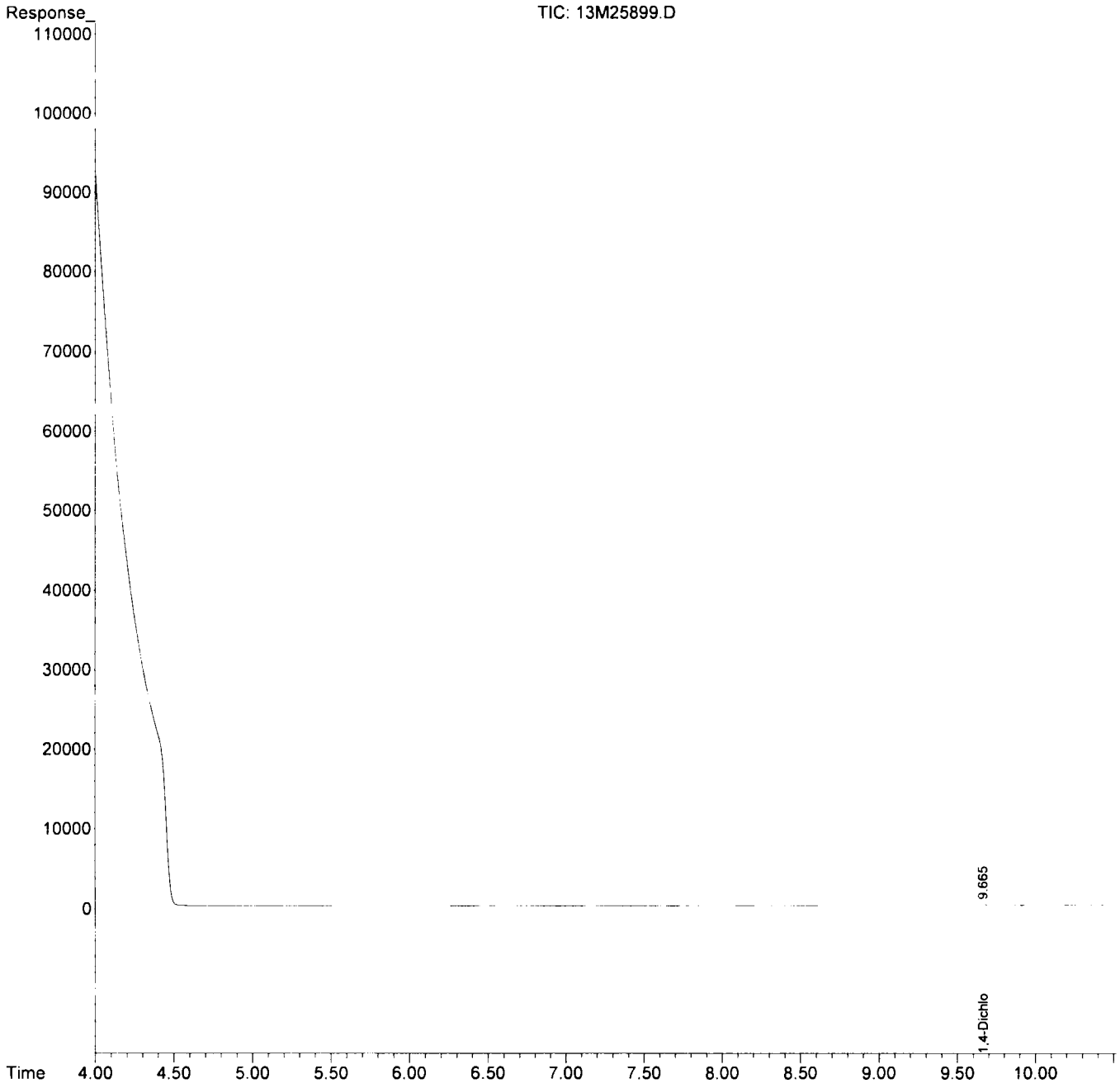


Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25899.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 22:27
Operator : WP
Sample : AD33892-001
Misc : M,MEXT!4
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 22:44:35 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33892-002
Client Id: SB-22SS(2-4)
Data File: 13M25900.D
Analysis Date: 10/17/22 22:43
Date Rec/Extracted: 10/14/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.92g:10ml
Final Vol: NA
Dilution: 84.5
Solids: 89

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	24	U				

Worksheet #: 662576

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25900.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 22:43
Operator : WP
Sample : AD33892-002
Misc : M,MEXT!4
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 18 00:13:02 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
1)S 1,4-Dichlorobenzene-d4	9.676f	4634	22.709	m
Target Compounds				
2) 2-Methylpentane	0.000	0	N.D.	
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L

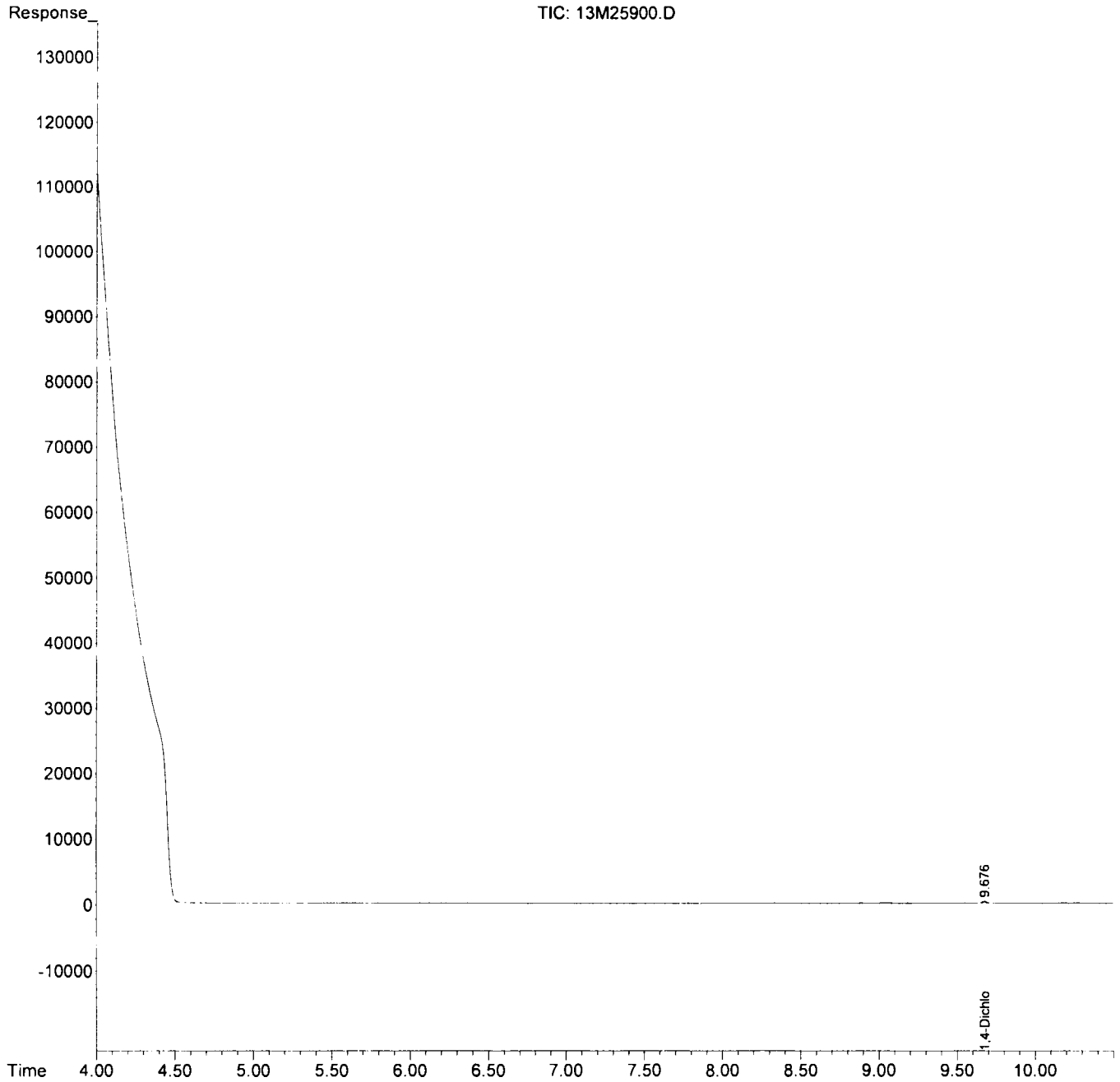
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25900.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 22:43
Operator : WP
Sample : AD33892-002
Misc : M,MEXT!4
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 18 00:13:02 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M25884.D
Analysis Date: 10/17/22 17:58
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 662576

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25884.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 17:58
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 18:11:33 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.680	5885	28.840		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L	

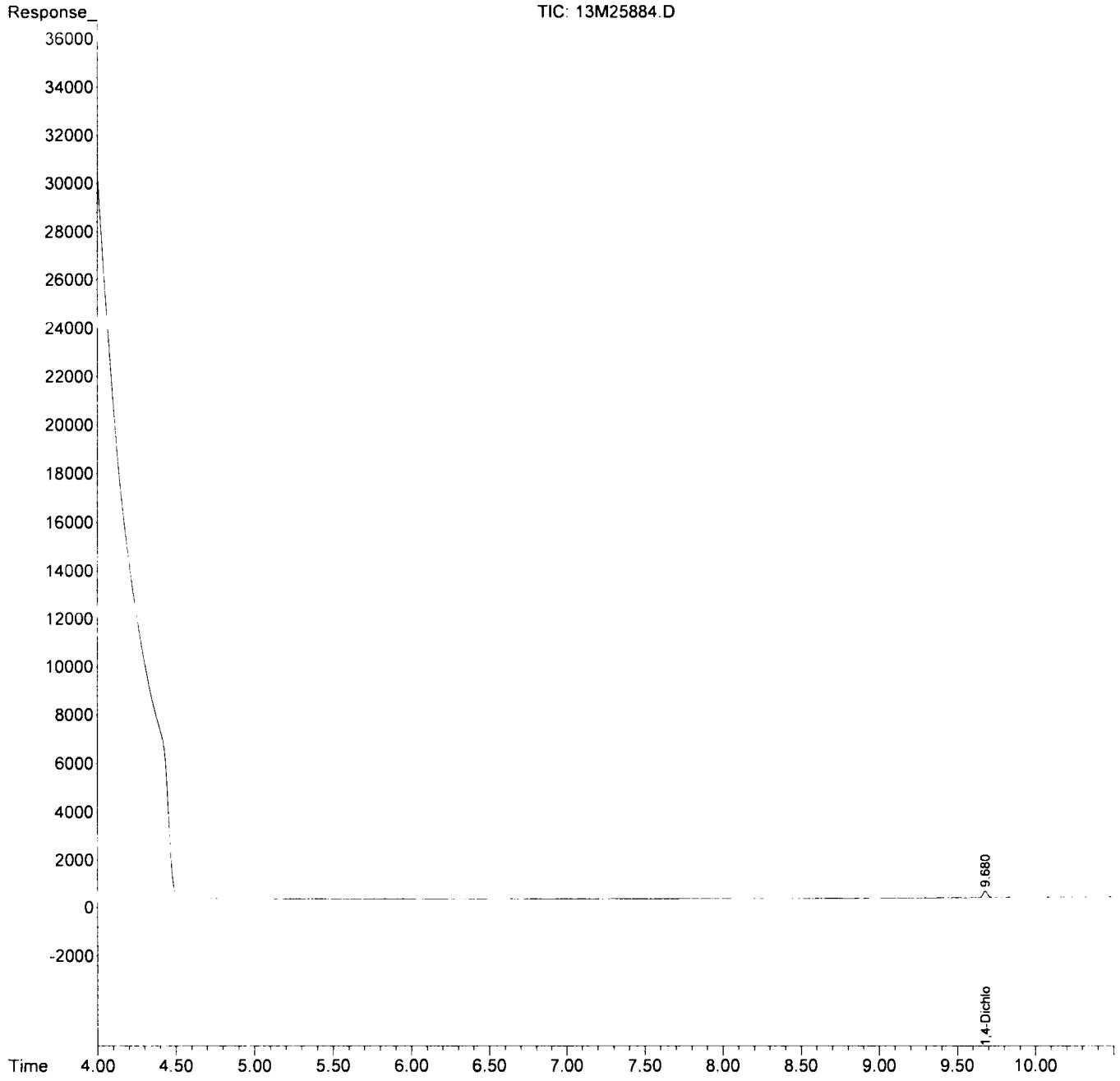
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25884.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 17:58
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 18:11:33 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M25884.D	DAILY BLANK	M	10/17/22 17:58	1		96					
13M25899.D	AD33892-001	M	10/17/22 22:27	1		81					
13M25900.D	AD33892-002	M	10/17/22 22:43	1		76					
13M25885.D	AD33806-004	M	10/17/22 18:18	1		68					
13M25888.D	AD33806-004(MS)	M	10/17/22 19:08	1		95					
13M25889.D	AD33806-004(MSD)	M	10/17/22 19:23	1		91					
13M25891.D	MBS105010	M	10/17/22 20:05	1		99					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25891.D	MBS105010	10/17/2022 8:05:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2193.68**	**0**	**2000**	**110**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25888.D	AD33806-004(MS)	10/17/2022 7:08:00 PM
Non Spike(If applicable):	13M25885.D	AD33806-004	10/17/2022 6:18:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**3613.4**	**0**	**2000**	**181**	**11**	**181**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25889.D	AD33806-004(MSD)	10/17/2022 7:23:00 PM
Non Spike(If applicable):	13M25885.D	AD33806-004	10/17/2022 6:18:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2324.79**	**0**	**2000**	**116**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25889.D	AD33806-004(MSD)	10/17/2022 7:23:00 PM
Duplicate(If applicable):	13M25888.D	AD33806-004(MS)	10/17/2022 7:08:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**2324.79**	**3613.4**	**43***	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M25884.D
Matrix: Methanol

Blank Analysis Date: 10/17/22 17:58
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33892-001	13M25899.D	10/17/22 22:27
AD33892-002	13M25900.D	10/17/22 22:43
MBS105010	13M25891.D	10/17/22 20:05
AD33806-004(MSD	13M25889.D	10/17/22 19:23
AD33806-004(MS)	13M25888.D	10/17/22 19:08
AD33806-004	13M25885.D	10/17/22 18:18

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M25297.D	2000	07/20/22 09:07	Aqueous					
13M25302.D	CAL @ 250 PPB	07/20/22 11:20	Aqueous	13M2530	9.7810	0.2889		
13M25303.D	CAL @ 500 PPB	07/20/22 11:36	Aqueous	13M2530	9.7872	0.2256		
13M25304.D	CAL @ 750 PPB	07/20/22 11:53	Aqueous	13M2530	9.8025	0.0694		
13M25305.D	CAL @ 1000 PPB	07/20/22 12:09	Aqueous	13M2530	9.8046	0.0479		
13M25306.D	CAL @ 1500 PPB	07/20/22 12:26	Aqueous	13M2530	9.8262	0.1721		
13M25307.D	CAL @ 2000 PPB	07/20/22 12:42	Aqueous	13M2530	9.8004	0.0908		
13M25308.D	CAL @ 4000 PPB	07/20/22 12:59	Aqueous	13M2530	9.8093	0		
13M25311.D	ICV	07/20/22 13:49	Aqueous	13M2530	9.8304	0.2149		
13M25312.D	2000 PPB	07/20/22 14:07	Aqueous	13M2530	9.8252	0.162		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M25881.D	CAL @ 2000 PPB	10/17/22 17:12	Aqueous	13M2588	9.6937	0		
13M25884.D	DAILY BLANK	10/17/22 17:58	Methanol	13M2588	9.6796	0.1456		
13M25885.D	AD33806-004	10/17/22 18:18	Methanol	13M2588	9.6871	0.0681		
13M25886.D	AD33806-003	10/17/22 18:33	Methanol	13M2588	9.6750	0.1931		
13M25887.D	AD33806-006	10/17/22 18:48	Methanol	13M2588	9.7328	0.4025		
13M25888.D	AD33806-004(MS)	10/17/22 19:08	Methanol	13M2588	9.6840	0.1001		
13M25889.D	AD33806-004(MSD)	10/17/22 19:23	Methanol	13M2588	9.6724	0.22		
13M25890.D	AD33806-006(80uL)	10/17/22 19:38	Methanol	13M2588	9.7300	0.3738		
13M25891.D	MBS105010	10/17/22 20:05	Methanol	13M2588	9.6813	0.128		
13M25892.D	MBS105011	10/17/22 20:28	Methanol	13M2588	0.0000	200		
13M25893.D	BLK	10/17/22 20:46	Aqueous	13M2588	0.0000	200		
13M25894.D	AD33808-001	10/17/22 21:04	Methanol	13M2588	9.6648	0.2986		
13M25895.D	AD33808-002	10/17/22 21:22	Methanol	13M2588	9.7538	0.6181		
13M25896.D	AD33808-003	10/17/22 21:41	Methanol	13M2588	9.6708	0.2365		
13M25897.D	AD33808-004	10/17/22 21:57	Methanol	13M2588	9.6646	0.3006		
13M25898.D	AD33808-005	10/17/22 22:12	Methanol	13M2588	9.6629	0.3182		
13M25899.D	AD33892-001	10/17/22 22:27	Methanol	13M2588	9.6646	0.3006		
13M25900.D	AD33892-002	10/17/22 22:43	Methanol	13M2588	9.6758	0.1848		
13M25901.D	AD33894-002	10/17/22 22:58	Methanol	13M2588	9.6699	0.2458		
13M25902.D	AD33894-004	10/17/22 23:14	Methanol	13M2588	9.6733	0.2107		
13M25903.D	AD33902-002	10/17/22 23:30	Methanol	13M2588	9.6721	0.2231		
13M25904.D	AD33915-001	10/17/22 23:45	Methanol	13M2588	9.6683	0.2624		
13M25905.D	AD33915-002	10/18/22 00:00	Methanol	13M2588	9.6675	0.2706		
13M25906.D	AD33915-003	10/18/22 00:17	Methanol	13M2588	9.6704	0.2407		
13M25907.D	AD33915-004	10/18/22 00:32	Methanol	13M2588	9.6671	0.2748		
13M25908.D	AD33915-005	10/18/22 00:47	Methanol	13M2588	9.6717	0.2272		
13M25909.D	CAL @ 2000 PPB	10/18/22 01:02	Aqueous	13M2588	9.6704	0.2407		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101411 0109

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M25308.D	CAL @ 4000 PPB	07/20/22 12:59	2	13M25307.D	CAL @ 2000 PPB	07/20/22 12:42
3	13M25306.D	CAL @ 1500 PPB	07/20/22 12:26	4	13M25305.D	CAL @ 1000 PPB	07/20/22 12:09
5	13M25304.D	CAL @ 750 PPB	07/20/22 11:53	6	13M25303.D	CAL @ 500 PPB	07/20/22 11:36
7	13M25302.D	CAL @ 250 PPB	07/20/22 11:20				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	0.0268	0.0211	0.0204	0.0204	0.0194	0.0172	0.0172	----	0.0204	9.73	-1	-1	16	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Qua	0.0003	0.0002	0.0003	0.0003	0.0002	0.0001	0.0001	----	0.000260	5.61	0.997	0.997	31	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1.2.4-Trimethylbenzene	1	0	Avg	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003	0.0003	----	0.000370	9.52	0.996	0.996	10	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0200	0.0200	0.0207	0.0214	0.0232	0.0236	0.0285	----	0.0225	8.73	1.00	1.00	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 35.10 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M25881.D			13M25909.D										
Method:			8015			8015										
Calibration Name:			CAL @ 2000 PPB			CAL @ 2000 PPB										
Calibration Date/Time			10/17/22 17:12			10/18/22 01:02										
			Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	2193	2000	9.7	1883	2000	5.9									

Flags/Notes: **** - Values outside of limits for this column/run***

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 2101411**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD33892-001	SB-21SS(2-4)	Soil/Terracore	**1**	**89**	**Percent**			10/14/22	10/14/22	10/13/22
AD33892-002	SB-22SS(2-4)	Soil/Terracore	**1**	**89**	**Percent**			10/14/22	10/14/22	10/13/22

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-13967

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD33902-003	91	90.93625	Percent	1.33	11.37	10.46	10/14/22	nbirmingham	0.47	5
Sample	AD33892-001	89	89.07216	Percent	1.35	11.05	9.99	10/14/22	nbirmingham		
Sample	AD33892-002	89	89.17955	Percent	1.32	9.73	8.82	10/14/22	nbirmingham		
Sample	AD33897-001	85	84.50226	Percent	1.32	10.16	8.80	10/14/22	nbirmingham		
Sample	AD33897-002	84	83.69369	Percent	1.34	12.44	10.63	10/14/22	nbirmingham		
Sample	AD33897-003	77	77.04562	Percent	1.32	15.13	11.96	10/14/22	nbirmingham		
Sample	AD33901-001	84	83.96719	Percent	1.33	14.74	12.59	10/14/22	nbirmingham		
Sample	AD33901-002	90	89.77273	Percent	1.33	15.41	13.97	10/14/22	nbirmingham		
Sample	AD33901-003	90	89.53901	Percent	1.34	12.62	11.44	10/14/22	nbirmingham		
Sample	AD33901-004	89	88.99457	Percent	1.34	16.06	14.44	10/14/22	nbirmingham		
Sample	AD33901-005	87	87.43102	Percent	1.32	17.63	15.58	10/14/22	nbirmingham		
Sample	AD33902-001	88	88.16964	Percent	1.32	14.76	13.17	10/14/22	nbirmingham		
Sample	AD33902-002	81	80.76588	Percent	1.34	12.83	10.62	10/14/22	nbirmingham		
Sample	AD33902-003	91	91.36808	Percent	1.34	13.62	12.56	10/14/22	nbirmingham		
Sample	AD33902-004	94	93.60865	Percent	1.32	11.49	10.84	10/14/22	nbirmingham		
Sample	AD33902-005	92	91.66667	Percent	1.32	13.20	12.22	10/14/22	nbirmingham		
Sample	AD33902-006	90	89.85507	Percent	1.35	17.22	15.61	10/14/22	nbirmingham		
Sample	AD33902-007	88	88.03089	Percent	1.34	11.70	10.46	10/14/22	nbirmingham		
Sample	AD33902-008	86	86.37578	Percent	1.34	12.57	11.04	10/14/22	nbirmingham		
Sample	AD33902-009	86	86.42066	Percent	1.34	14.89	13.05	10/14/22	nbirmingham		
Sample	AD33902-010	87	87.40226	Percent	1.34	12.85	11.40	10/14/22	nbirmingham		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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Project: WMATA NBG

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei/Jeff Martineau

Received Date: 10/25/2022

Report Date: 12/2/2022

Deliverables: MDE-R

Lab ID: AD34112

Lab Project No: 2102502

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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Wet Chemistry Data..... 106

Form 1 Sample Results

Inorganic Spreadsheet / QC Summary

Sample Summary

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2102502

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD34112-001	SB-23SS(14-16)	Soil/Terracore	10/24/2022	10/25/2022

HC Case Narrative

Client: Intertek
Project: WMATA NBG

HC Project: 2102502

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

Methylene chloride was recovered in sample AD34112-001 due to possible laboratory contamination.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batch 105065 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

The Matrix Spike Duplicate for batch 103421 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Diesel Range Organics Analysis:

The Matrix Spike Duplicate for batch 103421 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

12/2/22
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2102502

Project: WMATA NBG

Lab#: AD34112-001 **Sample ID: SB-23SS(14-16)**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	140	1200	EPA 8015D
Gasoline Range Organics	mg/kg	27	83	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	140	1300	EPA 8015D
Acetone	mg/kg	0.010	0.034	EPA 8260D
Cyclohexane	mg/kg	0.0020	0.0050	EPA 8260D
Isopropylbenzene	mg/kg	0.0010	0.027	EPA 8260D
Methylcyclohexane	mg/kg	0.0020	0.037	EPA 8260D
Methylene chloride	mg/kg	0.0020	0.0056	EPA 8260D

HC Report of Analysis

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2102502

Sample ID: SB-23SS(14-16)
Lab#: AD34112-001
Matrix: Soil/Terracore

Collection Date: 10/24/2022
Receipt Date: 10/25/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	2	mg/kg	140	1200

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	93.3	mg/kg	27	83

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	2	mg/kg	140	1300

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	0.888	mg/kg	0.0020	ND
1,1,2,2-Tetrachloroethane	0.888	mg/kg	0.0020	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.888	mg/kg	0.0020	ND
1,1,2-Trichloroethane	0.888	mg/kg	0.0020	ND
1,1-Dichloroethane	0.888	mg/kg	0.0020	ND
1,1-Dichloroethene	0.888	mg/kg	0.0020	ND
1,2,3-Trichlorobenzene	0.888	mg/kg	0.0020	ND
1,2,4-Trichlorobenzene	0.888	mg/kg	0.0020	ND
1,2-Dibromo-3-chloropropane	0.888	mg/kg	0.0020	ND
1,2-Dibromoethane	0.888	mg/kg	0.0010	ND
1,2-Dichlorobenzene	0.888	mg/kg	0.0020	ND
1,2-Dichloroethane	0.888	mg/kg	0.0020	ND
1,2-Dichloropropane	0.888	mg/kg	0.0020	ND
1,3-Dichlorobenzene	0.888	mg/kg	0.0020	ND
1,4-Dichlorobenzene	0.888	mg/kg	0.0020	ND
1,4-Dioxane	0.888	mg/kg	0.10	ND
2-Butanone	0.888	mg/kg	0.0020	ND
2-Hexanone	0.888	mg/kg	0.0020	ND
4-Methyl-2-pentanone	0.888	mg/kg	0.0020	ND
Acetone	**0.888**	**mg/kg**	**0.010**	**0.034**
Benzene	0.888	mg/kg	0.0010	ND
Bromochloromethane	0.888	mg/kg	0.0020	ND
Bromodichloromethane	0.888	mg/kg	0.0020	ND
Bromoform	0.888	mg/kg	0.0020	ND
Bromomethane	0.888	mg/kg	0.0020	ND
Carbon disulfide	0.888	mg/kg	0.0020	ND
Carbon tetrachloride	0.888	mg/kg	0.0020	ND
Chlorobenzene	0.888	mg/kg	0.0020	ND
Chloroethane	0.888	mg/kg	0.0020	ND
Chloroform	0.888	mg/kg	0.0020	ND
Chloromethane	0.888	mg/kg	0.0020	ND
cis-1,2-Dichloroethene	0.888	mg/kg	0.0020	ND

Sample ID: SB-23SS(14-16) **Collection Date:** 10/24/2022
Lab#: AD34112-001 **Receipt Date:** 10/25/2022
Matrix: Soil/Terracore

cis-1,3-Dichloropropene	0.888	mg/kg	0.0020	ND
Cyclohexane	**0.888**	**mg/kg**	**0.0020**	**0.0050**
Dibromochloromethane	0.888	mg/kg	0.0020	ND
Dichlorodifluoromethane	0.888	mg/kg	0.0020	ND
Ethylbenzene	0.888	mg/kg	0.0010	ND
Isopropylbenzene	**0.888**	**mg/kg**	**0.0010**	**0.027**
m&p-Xylenes	0.888	mg/kg	0.0015	ND
Methyl Acetate	0.888	mg/kg	0.0020	ND
Methylcyclohexane	**0.888**	**mg/kg**	**0.0020**	**0.037**
Methylene chloride	**0.888**	**mg/kg**	**0.0020**	**0.0056**
Methyl-t-butyl ether	0.888	mg/kg	0.0010	ND
o-Xylene	0.888	mg/kg	0.0010	ND
Styrene	0.888	mg/kg	0.0020	ND
Tetrachloroethene	0.888	mg/kg	0.0020	ND
Toluene	0.888	mg/kg	0.0010	ND
trans-1,2-Dichloroethene	0.888	mg/kg	0.0020	ND
trans-1,3-Dichloropropene	0.888	mg/kg	0.0020	ND
Trichloroethene	0.888	mg/kg	0.0020	ND
Trichlorofluoromethane	0.888	mg/kg	0.0020	ND
Vinyl chloride	0.888	mg/kg	0.0020	ND
Xylenes (Total)	0.888	mg/kg	0.0010	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2102502

Lab#: AD34112-001 **Sample ID: SB-23SS(14-16)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/26/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/26/22	Lynda	EPA 8015D	10/28/22 15:13	ABM/AH/JR/RR
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/26/22 01:28	WP
TPH 8015D (C8-C44)	Mod. Shaker	10/26/22	Lynda	EPA 8015D	10/28/22 15:13	ABM/AH/JR/RR
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	10/25/22 18:48	SG

Chain of Custody

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 US Highway 46, STE D and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787
Service Center: 137-C Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 2102502

Page _____ of _____

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other: _____		Other: _____

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek
Address: 2930 Eskridge Rd
Fairfax VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Jeff.Martineau@intertek.
1d) Send Report to: " + Rinzo.Rentmeister

Project Information

2a) Project: WMATA NBG
2b) Project Mgr: Jeff. Martineau
2c) Project Location (City/State): Washington DC
2d) Quote/PO # (If Applicable): 0444100

FOR LAB USE ONLY ↓

Batch # AD34112

===> Check If Contingent ===>

<=== Check If Contingent <===

Matrix Codes

DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	TPH-DRO/GRO ORO	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: D-H2O	9) Comments
001	SB-23S(A-16)	S	10/21/22	1400		G	x	x	1	1						2	

10) Relinquished by:

Relinquished by:	Accepted by:	Date	Time
[signature]	[signature] FedEx	10/25	11:04
[signature] FED EX	FEDEX [signature]	↓	↓

11) Sampler (print name): RINZO RENTMEISTER Date: 10/24/22

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:

- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:

- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.7

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD34112 Entered By: maxwell

Date Entered 10/25/2022 11:14:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.7
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD34112-001	10/25/22 11:04	MAXW	0	M	Received
AD34112-001	10/25/22 11:13	MAXW	0	M	Login
AD34112-001	10/25/22 11:29	R31	1	A	NONE
AD34112-001	10/25/22 11:29	F19	2	A	NONE
AD34112-001	10/25/22 18:08	SG	2	A	VOA
AD34112-001	10/25/22 11:29	F19	3	A	NONE
AD34112-001	10/25/22 12:37	R12	4	A	NONE
AD34112-001	10/25/22 23:03	PA	4	A	mx
AD34112-001	10/25/22 23:04	R12	4	A	NONE
AD34112-001	10/26/22 09:08	SOLID	4	A	BCT
AD34112-001	10/26/22 10:00	LV	4	A	TPH
AD34112-001	10/26/22 10:02	R12	4	A	NONE
AD34112-001	10/28/22 10:05	LV	4	A	TPH
AD34112-001	10/28/22 10:07	R12	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34112-001
Client Id: SB-23SS(14-16)
Data File: 1M166260.D
Analysis Date: 10/25/22 18:48
Date Rec/Extracted: 10/25/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5.63g
Final Vol: NA
Dilution: 0.888
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	**110-82-7**	**Cyclohexane**	0.0020	**0.0050**
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0010	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	**98-82-8**	**Isopropylbenzene**	**0.0010**	**0.027**
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	**108-87-2**	**Methylcyclohexane**	**0.0020**	**0.037**
123-91-1	1,4-Dioxane	0.10	U	**75-09-2**	**Methylene Chloride**	**0.0020**	**0.0056**
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	**Acetone**	**0.010**	**0.034**	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U
1330-20-7	Xylenes (Total)	0.0010	U				

Worksheet #: 664160

Total Target Concentration 0.11

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

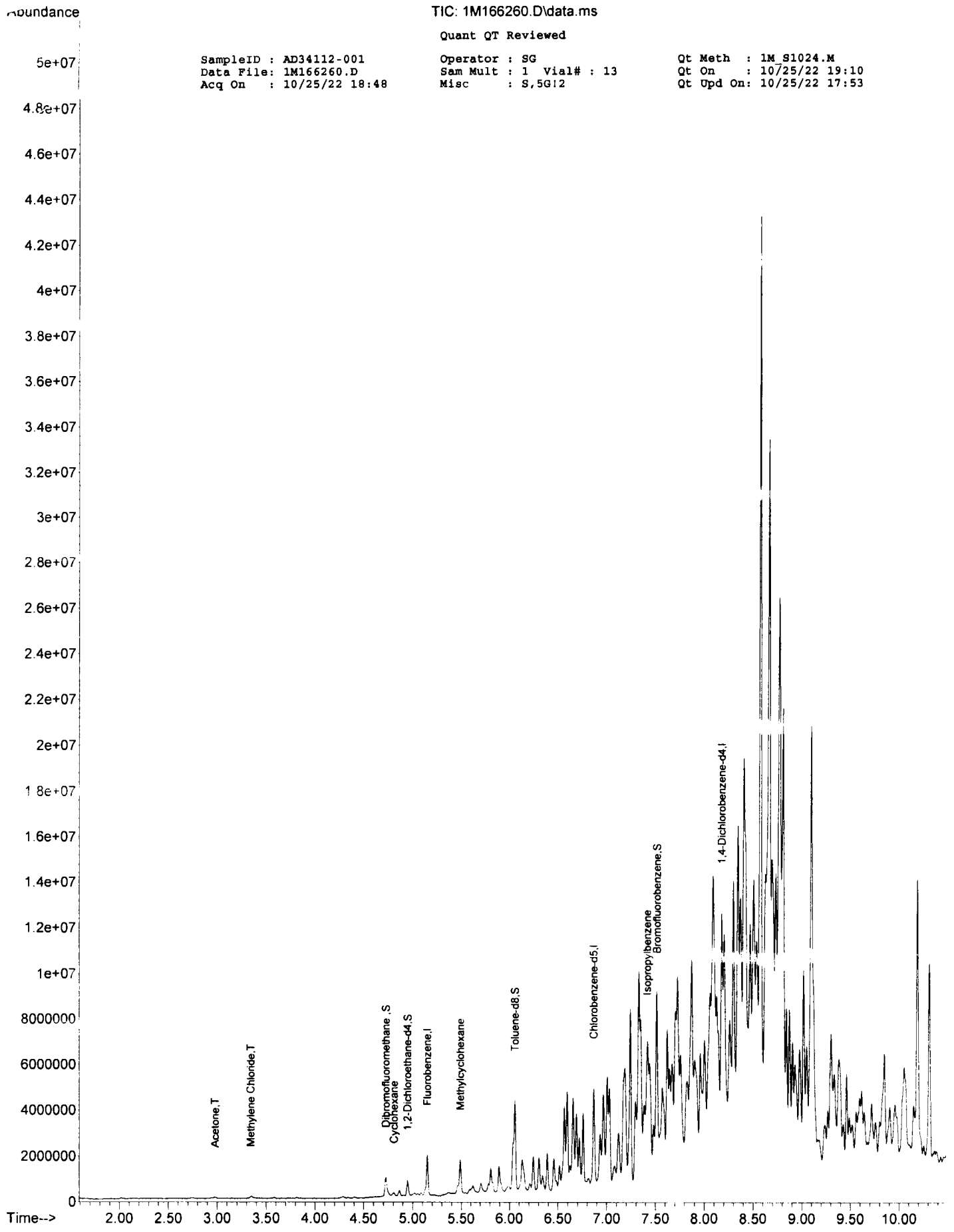
Quantitation Report (QT Reviewed)

SampleID : AD34112-001 Operator : SG Qt Meth : 1M_S1024.M
Data File: 1M166260.D Sam Mult : 1 Vial# : 13 Qt On : 10/25/22 19:10
Acq On : 10/25/22 18:48 Misc : S,5G!2 Qt Upd On: 10/25/22 17:53

Data Path : G:\GcMsData\2022\GCMS_1\Data\10-25-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.150	96	951462	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	1477304	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.178	152	1381959	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.725	111	315173	30.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.60%			
39) 1,2-Dichloroethane-d4	4.947	67	156622	33.62	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.07%			
66) Toluene-d8	6.056	98	1332050	31.97	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.57%			
76) Bromofluorobenzene	7.516	174	844716	26.47	ug/l	0.00
Spiked Amount 30.000			Recovery = 88.23%			
Target Compounds						Qvalue
15) Methylene Chloride	3.343	84	36684m	5.5914	ug/l	
19) Acetone	2.979	43	61409m	33.4975	ug/l	
38) Cyclohexane	4.809	56	44330m	4.9904	ug/l	
46) Methylcyclohexane	5.490	83	348460m	36.9601	ug/l	
84) Isopropylbenzene	7.416	105	789297	26.8840	ug/l	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M166260.D\data.ms
Quant QT Reviewed
SampleID : AD34112-001
Data File: 1M166260.D
Acq On : 10/25/22 18:48
Operator : SG
Sam Mult : 1 Vial# : 13
Misc : S,5G12
Qt Meth : 1M_S1024.M
Qt On : 10/25/22 19:10
Qt Upd On: 10/25/22 17:53
5e+07
4.8e+07
4.6e+07
4.4e+07
4.2e+07
4e+07
3.8e+07
3.6e+07
3.4e+07
3.2e+07
3e+07
2.8e+07
2.6e+07
2.4e+07
2.2e+07
2e+07
1.8e+07
1.6e+07
1.4e+07
1.2e+07
1e+07
8000000
6000000
4000000
2000000
0
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
Acetone,T
Methylene Chloride,T
Dibromofluoromethane,S
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Methylcyclohexane
Toluene-d8,S
Chlorobenzene-d5,I
Isopropylbenzene
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M166257.D
Analysis Date: 10/25/22 17:38
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Soil
Initial Vol: 5g
Final Vol: NA
Dilution: 1.00
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	0.0020	U	56-23-5	Carbon Tetrachloride	0.0020	U
79-34-5	1,1,2,2-Tetrachloroethane	0.0020	U	108-90-7	Chlorobenzene	0.0020	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	0.0020	U	75-00-3	Chloroethane	0.0020	U
79-00-5	1,1,2-Trichloroethane	0.0020	U	67-66-3	Chloroform	0.0020	U
75-34-3	1,1-Dichloroethane	0.0020	U	74-87-3	Chloromethane	0.0020	U
75-35-4	1,1-Dichloroethene	0.0020	U	156-59-2	cis-1,2-Dichloroethene	0.0020	U
87-61-6	1,2,3-Trichlorobenzene	0.0020	U	10061-01-5	cis-1,3-Dichloropropene	0.0020	U
120-82-1	1,2,4-Trichlorobenzene	0.0020	U	110-82-7	Cyclohexane	0.0020	U
96-12-8	1,2-Dibromo-3-Chloropropa	0.0020	U	124-48-1	Dibromochloromethane	0.0020	U
106-93-4	1,2-Dibromoethane	0.0010	U	75-71-8	Dichlorodifluoromethane	0.0020	U
95-50-1	1,2-Dichlorobenzene	0.0020	U	100-41-4	Ethylbenzene	0.0010	U
107-06-2	1,2-Dichloroethane	0.0020	U	98-82-8	Isopropylbenzene	0.0010	U
78-87-5	1,2-Dichloropropane	0.0020	U	79601-23-1	m&p-Xylenes	0.0015	U
541-73-1	1,3-Dichlorobenzene	0.0020	U	79-20-9	Methyl Acetate	0.0020	U
106-46-7	1,4-Dichlorobenzene	0.0020	U	108-87-2	Methylcyclohexane	0.0020	U
123-91-1	1,4-Dioxane	0.10	U	75-09-2	Methylene Chloride	0.0020	U
78-93-3	2-Butanone	0.0020	U	1634-04-4	Methyl-t-butyl ether	0.0010	U
591-78-6	2-Hexanone	0.0020	U	95-47-6	o-Xylene	0.0010	U
108-10-1	4-Methyl-2-Pentanone	0.0020	U	100-42-5	Styrene	0.0020	U
67-64-1	Acetone	0.010	U	127-18-4	Tetrachloroethene	0.0020	U
71-43-2	Benzene	0.0010	U	108-88-3	Toluene	0.0010	U
74-97-5	Bromochloromethane	0.0020	U	156-60-5	trans-1,2-Dichloroethene	0.0020	U
75-27-4	Bromodichloromethane	0.0020	U	10061-02-6	trans-1,3-Dichloropropene	0.0020	U
75-25-2	Bromoform	0.0020	U	79-01-6	Trichloroethene	0.0020	U
74-83-9	Bromomethane	0.0020	U	75-69-4	Trichlorofluoromethane	0.0020	U
75-15-0	Carbon Disulfide	0.0020	U	75-01-4	Vinyl Chloride	0.0020	U

Worksheet #: 664160

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

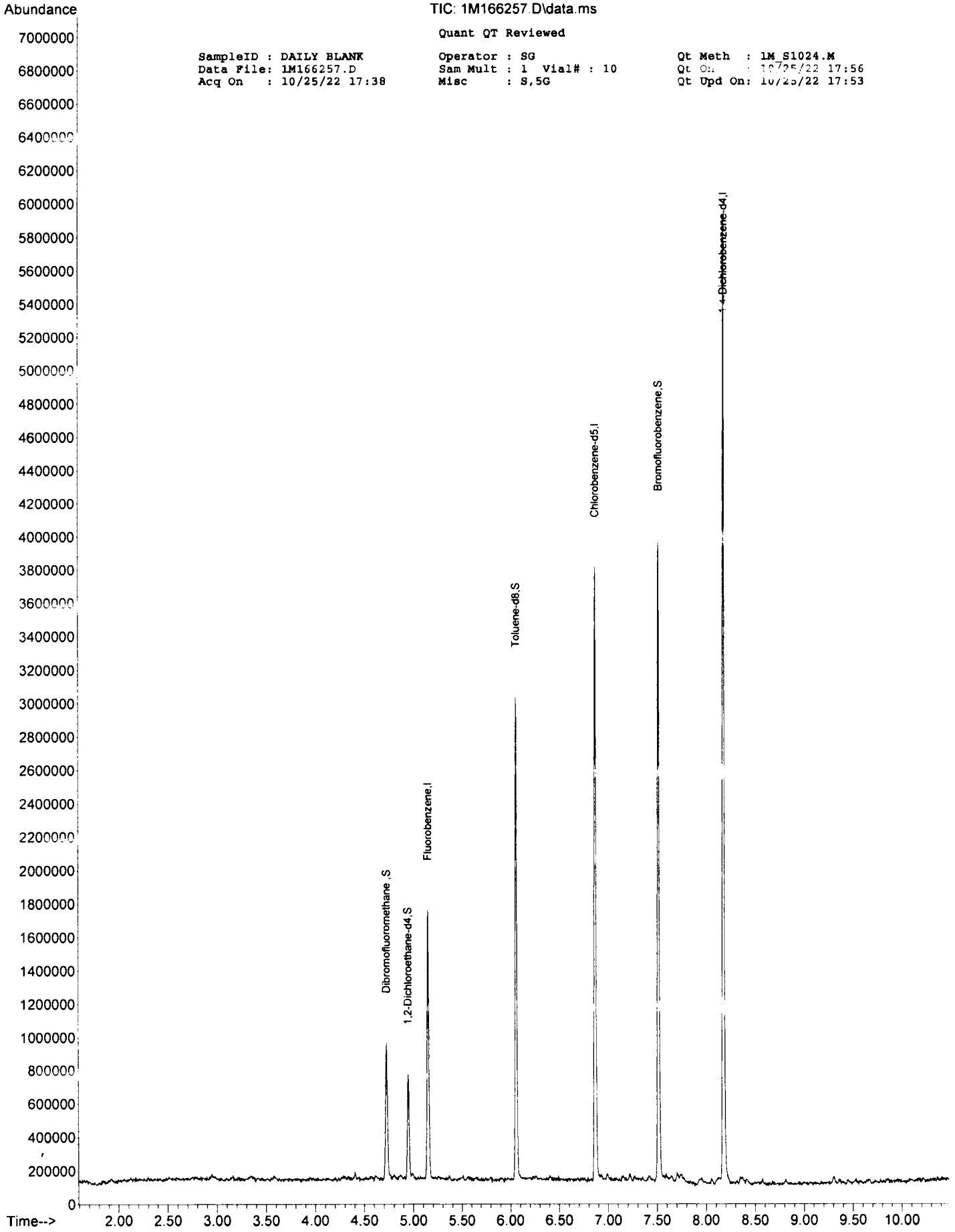
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : SG Qt Meth : 1M_S1024.M
Data File: 1M166257.D Sam Mult : 1 Vial# : 10 Qt On : 10/25/22 17:56
Acq On : 10/25/22 17:38 Misc : S,5G Qt Upd On: 10/25/22 17:53

Data Path : G:\GcMsData\2022\GCMS_1\Data\10-25-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.150	96	922750	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	1426659	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.178	152	1108791	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.725	111	305774	30.19	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.63%			
39) 1,2-Dichloroethane-d4	4.947	67	139267	30.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.73%			
66) Toluene-d8	6.056	98	1201495	29.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.53%			
76) Bromofluorobenzene	7.516	174	776667	30.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.10%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M166257.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 1M166257.D
Acq On : 10/25/22 17:38
Operator : SG
Sam Mult : 1 Vial# : 10
Misc : S,5G
Qt Meth : 1M_S1024.M
Qt On : 10/25/22 17:56
Qt Upd On: 10/25/22 17:53
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
1M166257.D	DAILY BLANK	S	10/25/22 17:38	1		101	103	100	101		
1M166260.D	AD34112-001	S	10/25/22 18:48	1		101	112	107	88		
1M166261.D	AD34095-002(MS)	S	10/25/22 19:11	1		98	118	97	91		
1M166262.D	MBS105065	S	10/25/22 19:34	1		100	102	104	103		
1M166263.D	AD34095-002(MSD)	S	10/25/22 19:57	1		98	100	102	108		
1M166264.D	AD34095-002	S	10/25/22 20:21	1		97	100	102	94		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	63-140
S2=1,2-Dichloroethane-d4	30	63-143
S3=Toluene-d8	30	68-122
S4=Bromofluorobenzene	30	64-129

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105065

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M166262.D	MBS105065	10/25/2022 7:34:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	57.4808	0	50	115	20	130
Dichlorodifluoromethane	1	38.3552	0	50	77	20	130
Chloromethane	1	39.2285	0	50	78	20	130
Bromomethane	1	35.0653	0	50	70	20	130
Vinyl Chloride	1	38.4638	0	50	77	20	130
Chloroethane	1	35.9407	0	50	72	20	130
Trichlorofluoromethane	1	34.5193	0	50	69	20	130
Ethyl ether	1	37.0687	0	50	74	50	130
Furan	1	38.1973	0	50	76	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	33.5841	0	50	67	50	130
Methylene Chloride	1	32.6606	0	50	65	50	130
Acrolein	1	162.6118	0	200	81	20	130
Acrylonitrile	1	33.9866	0	50	68	20	130
Iodomethane	1	36.599	0	50	73	50	130
Acetone	1	151.209	0	200	76	20	130
Carbon Disulfide	1	34.7532	0	50	70	50	130
t-Butyl Alcohol	1	161.8009	0	200	81	20	130
n-Hexane	1	35.9402	0	50	72	50	130
Di-isopropyl-ether	1	41.0775	0	50	82	50	130
1,1-Dichloroethene	1	36.2467	0	50	72	50	130
Methyl Acetate	1	33.4954	0	50	67	50	130
Methyl-t-butyl ether	1	35.4808	0	50	71	50	130
1,1-Dichloroethane	1	35.1364	0	50	70	50	130
trans-1,2-Dichloroethene	1	36.2113	0	50	72	50	130
Ethyl-t-butyl ether	1	38.9264	0	50	78	50	130
cis-1,2-Dichloroethene	1	33.8147	0	50	68	50	130
Bromochloromethane	1	32.1109	0	50	64	50	130
2,2-Dichloropropane	1	35.9047	0	50	72	50	130
Ethyl acetate	1	34.6894	0	50	69	50	130
1,4-Dioxane	1	1520.496	0	2500	61	50	130
1,1-Dichloropropene	1	33.6889	0	50	67	50	130
Chloroform	1	32.6022	0	50	65	50	130
Cyclohexane	1	33.3291	0	50	67	50	130
1,2-Dichloroethane	1	31.9881	0	50	64	50	130
2-Butanone	1	27.0241	0	50	54	20	130
1,1,1-Trichloroethane	1	33.9689	0	50	68	50	130
Carbon Tetrachloride	1	32.3566	0	50	65	50	130
Vinyl Acetate	1	33.0368	0	50	66	50	130
Bromodichloromethane	1	32.8952	0	50	66	50	130
Methylcyclohexane	1	36.0944	0	50	72	50	130
Dibromomethane	1	30.7982	0	50	62	50	130
1,2-Dichloropropane	1	32.3789	0	50	65	50	130
Trichloroethene	1	31.7387	0	50	63	50	130
Benzene	1	31.5406	0	50	63	50	130
tert-Amyl methyl ether	1	37.155	0	50	74	50	130
Iso-propylacetate	1	37.1614	0	50	74	50	130
Methyl methacrylate	1	38.1067	0	50	76	50	130
Dibromochloromethane	1	35.2086	0	50	70	50	130
2-Chloroethylvinylether	1	37.804	0	50	76	50	130
cis-1,3-Dichloropropene	1	36.5862	0	50	73	50	130
trans-1,3-Dichloropropene	1	35.5476	0	50	71	50	130
Ethyl methacrylate	1	38.8064	0	50	78	50	130
1,1,2-Trichloroethane	1	35.8268	0	50	72	50	130
1,2-Dibromoethane	1	35.6996	0	50	71	50	130
1,3-Dichloropropane	1	35.7757	0	50	72	50	130
4-Methyl-2-Pentanone	1	36.3033	0	50	73	20	130
2-Hexanone	1	38.0011	0	50	76	20	130
Tetrachloroethene	1	34.3007	0	50	69	50	130
Toluene	1	32.9538	0	50	66	50	130
1,1,1,2-Tetrachloroethane	1	33.6477	0	50	67	50	130
Chlorobenzene	1	33.9431	0	50	68	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105065

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	43.3738	0	50	87	50	130
n-Amyl acetate	1	39.0852	0	50	78	50	130
Bromoform	1	34.5319	0	50	69	20	130
Ethylbenzene	1	36.2221	0	50	72	50	130
1,1,2,2-Tetrachloroethane	1	36.2779	0	50	73	50	130
Styrene	1	39.6673	0	50	79	50	130
m&p-Xylenes	1	71.913	0	100	72	50	130
o-Xylene	1	35.8199	0	50	72	50	130
trans-1,4-Dichloro-2-butene	1	41.4048	0	50	83	20	130
1,3-Dichlorobenzene	1	34.0992	0	50	68	50	130
1,4-Dichlorobenzene	1	32.99	0	50	66	50	130
1,2-Dichlorobenzene	1	37.7793	0	50	76	50	130
Isopropylbenzene	1	41.6353	0	50	83	50	130
Cyclohexanone	1	216.3185	0	250	87	50	130
Camphene	1	42.7692	0	50	86	50	130
1,2,3-Trichloropropane	1	36.3178	0	50	73	50	130
2-Chlorotoluene	1	39.0436	0	50	78	50	130
p-Ethyltoluene	1	43.447	0	50	87	50	130
4-Chlorotoluene	1	38.8821	0	50	78	50	130
n-Propylbenzene	1	41.9171	0	50	84	50	130
Bromobenzene	1	41.2886	0	50	83	50	130
1,3,5-Trimethylbenzene	1	41.502	0	50	83	50	130
Butyl methacrylate	1	40.4444	0	50	81	50	130
t-Butylbenzene	1	41.6843	0	50	83	50	130
1,2,4-Trimethylbenzene	1	38.8377	0	50	78	50	130
sec-Butylbenzene	1	43.2512	0	50	87	50	130
4-Isopropyltoluene	1	41.4139	0	50	83	50	130
n-Butylbenzene	1	43.3143	0	50	87	50	130
p-Diethylbenzene	1	42.4194	0	50	85	50	130
1,2,4,5-Tetramethylbenzene	1	45.8098	0	50	92	50	130
1,2-Dibromo-3-Chloropropane	1	31.6761	0	50	63	50	130
Camphor	1	385.289	0	500	77	50	130
Hexachlorobutadiene	1	41.1137	0	50	82	50	130
1,2,4-Trichlorobenzene	1	42.4279	0	50	85	50	130
1,2,3-Trichlorobenzene	1	42.917	0	50	86	50	130
Naphthalene	1	43.6462	0	50	87	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105065

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M166261.D	AD34095-002(MS)	10/25/2022 7:11:00 PM
Non Spike(If applicable):	1M166264.D	AD34095-002	10/25/2022 8:21:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	71.1536	4.0166	50	134*	20	130
Dichlorodifluoromethane	1	57.02	0	50	114	20	130
Chloromethane	1	61.5553	3.3785	50	116	20	130
Bromomethane	1	47.9848	0	50	96	20	130
Vinyl Chloride	1	60.5738	2.7739	50	116	20	130
Chloroethane	1	47.574	2.5506	50	90	20	130
Trichlorofluoromethane	1	47.4754	0	50	95	20	130
Ethyl ether	1	51.159	0	50	102	50	130
Furan	1	50.0098	0	50	100	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	46.0941	0	50	92	50	130
Methylene Chloride	1	42.1099	2.7663	50	79	50	130
Acrolein	1	98.4885	0	200	49	20	130
Acrylonitrile	1	38.7405	0	50	77	20	130
Iodomethane	1	44.2633	0	50	89	50	130
Acetone	1	197.656	0	200	99	20	130
Carbon Disulfide	1	43.3383	0	50	87	50	130
t-Butyl Alcohol	1	194.6184	0	200	97	20	130
n-Hexane	1	45.7849	0	50	92	50	130
Di-isopropyl-ether	1	53.5091	0	50	107	50	130
1,1-Dichloroethene	1	48.0571	0	50	96	50	130
Methyl Acetate	1	55.7415	0	50	111	50	130
Methyl-t-butyl ether	1	47.5312	0	50	95	50	130
1,1-Dichloroethane	1	45.4506	0	50	91	50	130
trans-1,2-Dichloroethene	1	45.8301	0	50	92	50	130
Ethyl-t-butyl ether	1	51.4136	0	50	103	50	130
cis-1,2-Dichloroethene	1	41.821	0	50	84	50	130
Bromochloromethane	1	42.4999	0	50	85	50	130
2,2-Dichloropropane	1	47.5569	0	50	95	50	130
Ethyl acetate	1	27.1581	0	50	54	50	130
1,4-Dioxane	1	1767.554	0	2500	71	50	130
1,1-Dichloropropene	1	46.0274	0	50	92	50	130
Chloroform	1	42.8243	0	50	86	50	130
Cyclohexane	1	45.5016	0	50	91	50	130
1,2-Dichloroethane	1	42.9254	0	50	86	50	130
2-Butanone	1	36.1888	0	50	72	20	130
1,1,1-Trichloroethane	1	44.7116	0	50	89	50	130
Carbon Tetrachloride	1	43.8199	0	50	88	50	130
Vinyl Acetate	1	32.5956	0	50	65	50	130
Bromodichloromethane	1	44.9243	0	50	90	50	130
Methylcyclohexane	1	50.114	0	50	100	50	130
Dibromomethane	1	41.2365	0	50	82	50	130
1,2-Dichloropropane	1	43.2363	0	50	86	50	130
Trichloroethene	1	43.8034	0	50	88	50	130
Benzene	1	43.822	0	50	88	50	130
tert-Amyl methyl ether	1	50.8326	0	50	102	50	130
Iso-propylacetate	1	32.9736	0	50	66	50	130
Methyl methacrylate	1	52.8246	0	50	106	50	130
Dibromochloromethane	1	42.4943	0	50	85	50	130
2-Chloroethylvinylether	1	49.0105	0	50	98	50	130
cis-1,3-Dichloropropene	1	46.2487	0	50	92	50	130
trans-1,3-Dichloropropene	1	44.826	0	50	90	50	130
Ethyl methacrylate	1	39.8848	0	50	80	50	130
1,1,2-Trichloroethane	1	42.0305	0	50	84	50	130
1,2-Dibromoethane	1	43.1156	0	50	86	50	130
1,3-Dichloropropane	1	44.7426	0	50	89	50	130
4-Methyl-2-Pentanone	1	43.6576	2.2781	50	83	20	130
2-Hexanone	1	35.7312	3.09	50	65	20	130
Tetrachloroethene	1	42.5989	0	50	85	50	130
Toluene	1	41.6555	0	50	83	50	130
1,1,1,2-Tetrachloroethane	1	44.3788	0	50	89	50	130
Chlorobenzene	1	43.6059	0	50	87	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105065

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	34.7373	2.7615	50	64	50	130
n-Amyl acetate	1	27.7055	0	50	55	50	130
Bromoform	1	40.424	0	50	81	20	130
Ethylbenzene	1	41.8315	0	50	84	50	130
1,1,2,2-Tetrachloroethane	1	43.5418	0	50	87	50	130
Styrene	1	44.5005	0	50	89	50	130
m&p-Xylenes	1	81.5796	2.3567	100	79	50	130
o-Xylene	1	41.0402	1.6078	50	79	50	130
trans-1,4-Dichloro-2-butene	1	42.532	0	50	85	20	130
1,3-Dichlorobenzene	1	42.9728	0	50	86	50	130
1,4-Dichlorobenzene	1	41.7684	0	50	84	50	130
1,2-Dichlorobenzene	1	42.1545	2.0287	50	80	50	130
Isopropylbenzene	1	50.4617	1.6473	50	98	50	130
Cyclohexanone	1	257.2401	0	250	103	50	130
Camphene	1	45.1922	0	50	90	50	130
1,2,3-Trichloropropane	1	41.6828	49.1132	50	-15*	50	130
2-Chlorotoluene	1	43.8404	0	50	88	50	130
p-Ethyltoluene	1	50.0959	2.2723	50	96	50	130
4-Chlorotoluene	1	43.4881	2.0778	50	83	50	130
n-Propylbenzene	1	47.7063	2.2107	50	91	50	130
Bromobenzene	1	48.8786	0	50	98	50	130
1,3,5-Trimethylbenzene	1	47.6034	2.2576	50	91	50	130
Butyl methacrylate	1	45.7728	3.0355	50	85	50	130
t-Butylbenzene	1	47.5585	2.0566	50	91	50	130
1,2,4-Trimethylbenzene	1	43.7798	2.2483	50	83	50	130
sec-Butylbenzene	1	55.1953	2.2257	50	106	50	130
4-Isopropyltoluene	1	53.103	2.2092	50	102	50	130
n-Butylbenzene	1	47.7692	2.0874	50	91	50	130
p-Diethylbenzene	1	48.5018	2.0295	50	93	50	130
1,2,4,5-Tetramethylbenzene	1	55.6461	0	50	111	50	130
1,2-Dibromo-3-Chloropropane	1	44.5102	0	50	89	50	130
Camphor	1	470.7975	28.6167	500	88	50	130
Hexachlorobutadiene	1	39.6393	0	50	79	50	130
1,2,4-Trichlorobenzene	1	46.3686	0	50	93	50	130
1,2,3-Trichlorobenzene	1	46.992	0	50	94	50	130
Naphthalene	1	50.1825	1.8208	50	97	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105065

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M166263.D	AD34095-002(MSD)	10/25/2022 7:57:00 PM
Non Spike(If applicable):	1M166264.D	AD34095-002	10/25/2022 8:21:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	71.2104	4.0166	50	134*	20	130
Dichlorodifluoromethane	1	39.3656	0	50	79	20	130
Chloromethane	1	45.0924	3.3785	50	83	20	130
Bromomethane	1	40.2637	0	50	81	20	130
Vinyl Chloride	1	42.1906	2.7739	50	79	20	130
Chloroethane	1	38.2567	2.5506	50	71	20	130
Trichlorofluoromethane	1	37.7636	0	50	76	20	130
Ethyl ether	1	45.6712	0	50	91	50	130
Furan	1	42.3975	0	50	85	50	130
1,1,2-Trichloro-1,2,2-trifluoroethane	1	37.5929	0	50	75	50	130
Methylene Chloride	1	37.5734	2.7663	50	70	50	130
Acrolein	1	49.7422	0	200	25	20	130
Acrylonitrile	1	35.0529	0	50	70	20	130
Iodomethane	1	40.789	0	50	82	50	130
Acetone	1	167.4156	0	200	84	20	130
Carbon Disulfide	1	38.5579	0	50	77	50	130
t-Butyl Alcohol	1	181.0916	0	200	91	20	130
n-Hexane	1	37.5531	0	50	75	50	130
Di-isopropyl-ether	1	48.0098	0	50	96	50	130
1,1-Dichloroethene	1	41.1373	0	50	82	50	130
Methyl Acetate	1	55.2921	0	50	111	50	130
Methyl-t-butyl ether	1	41.8787	0	50	84	50	130
1,1-Dichloroethane	1	40.064	0	50	80	50	130
trans-1,2-Dichloroethene	1	39.8694	0	50	80	50	130
Ethyl-t-butyl ether	1	46.3572	0	50	93	50	130
cis-1,2-Dichloroethene	1	37.9476	0	50	76	50	130
Bromochloromethane	1	38.1182	0	50	76	50	130
2,2-Dichloropropane	1	40.1348	0	50	80	50	130
Ethyl acetate	1	16.5575	0	50	33*	50	130
1,4-Dioxane	1	1743.629	0	2500	70	50	130
1,1-Dichloropropene	1	38.2943	0	50	77	50	130
Chloroform	1	37.9519	0	50	76	50	130
Cyclohexane	1	38.7485	0	50	77	50	130
1,2-Dichloroethane	1	36.476	0	50	73	50	130
2-Butanone	1	34.7189	0	50	69	20	130
1,1,1-Trichloroethane	1	37.1892	0	50	74	50	130
Carbon Tetrachloride	1	37.2318	0	50	74	50	130
Vinyl Acetate	1	27.153	0	50	54	50	130
Bromodichloromethane	1	37.155	0	50	74	50	130
Methylcyclohexane	1	39.413	0	50	79	50	130
Dibromomethane	1	36.0701	0	50	72	50	130
1,2-Dichloropropane	1	37.5744	0	50	75	50	130
Trichloroethene	1	36.3133	0	50	73	50	130
Benzene	1	36.6097	0	50	73	50	130
tert-Amyl methyl ether	1	43.9711	0	50	88	50	130
Iso-propylacetate	1	28.2457	0	50	56	50	130
Methyl methacrylate	1	53.7214	0	50	107	50	130
Dibromochloromethane	1	37.9139	0	50	76	50	130
2-Chloroethylvinylether	1	41.1045	0	50	82	50	130
cis-1,3-Dichloropropene	1	41.0419	0	50	82	50	130
trans-1,3-Dichloropropene	1	39.0542	0	50	78	50	130
Ethyl methacrylate	1	31.2359	0	50	62	50	130
1,1,2-Trichloroethane	1	36.6974	0	50	73	50	130
1,2-Dibromoethane	1	37.6083	0	50	75	50	130
1,3-Dichloropropane	1	39.865	0	50	80	50	130
4-Methyl-2-Pentanone	1	33.9342	2.2781	50	63	20	130
2-Hexanone	1	32.4465	3.09	50	59	20	130
Tetrachloroethene	1	37.5736	0	50	75	50	130
Toluene	1	36.6192	0	50	73	50	130
1,1,1,2-Tetrachloroethane	1	38.6556	0	50	77	50	130
Chlorobenzene	1	38.1618	0	50	76	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105065

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	28.0272	2.7615	50	51	50	130
n-Amyl acetate	1	17.7004	0	50	35*	50	130
Bromoform	**1**	**42.1552**	**0**	**50**	**84**	**20**	**130**
Ethylbenzene	**1**	**45.4253**	**0**	**50**	**91**	**50**	**130**
1,1,2,2-Tetrachloroethane	**1**	**42.6074**	**0**	**50**	**85**	**50**	**130**
Styrene	**1**	**46.5898**	**0**	**50**	**93**	**50**	**130**
m&p-Xylenes	**1**	**86.2007**	**2.3567**	**100**	**84**	**50**	**130**
o-Xylene	**1**	**42.8645**	**1.6078**	**50**	**83**	**50**	**130**
trans-1,4-Dichloro-2-butene	1	42.3693	0	50	85	20	130
1,3-Dichlorobenzene	**1**	**38.1777**	**0**	**50**	**76**	**50**	**130**
1,4-Dichlorobenzene	**1**	**36.2618**	**0**	**50**	**73**	**50**	**130**
1,2-Dichlorobenzene	**1**	**36.9964**	**2.0287**	**50**	**70**	**50**	**130**
Isopropylbenzene	**1**	**48.2744**	**1.6473**	**50**	**93**	**50**	**130**
Cyclohexanone	1	251.1543	0	250	100	50	130
Camphene	1	44.563	0	50	89	50	130
1,2,3-Trichloropropane	1	44.221	49.1132	50	-9.8*	50	130
2-Chlorotoluene	1	43.9526	0	50	88	50	130
p-Ethyltoluene	1	50.4759	2.2723	50	96	50	130
4-Chlorotoluene	1	45.2637	2.0778	50	86	50	130
n-Propylbenzene	1	47.5171	2.2107	50	91	50	130
Bromobenzene	1	46.1554	0	50	92	50	130
1,3,5-Trimethylbenzene	1	48.5403	2.2576	50	93	50	130
Butyl methacrylate	1	44.1063	3.0355	50	82	50	130
t-Butylbenzene	1	46.2511	2.0566	50	88	50	130
1,2,4-Trimethylbenzene	1	43.3877	2.2483	50	82	50	130
sec-Butylbenzene	1	47.5973	2.2257	50	91	50	130
4-Isopropyltoluene	1	44.989	2.2092	50	86	50	130
n-Butylbenzene	1	38.515	2.0874	50	73	50	130
p-Diethylbenzene	1	39.2765	2.0295	50	74	50	130
1,2,4,5-Tetramethylbenzene	1	43.9405	0	50	88	50	130
1,2-Dibromo-3-Chloropropane	**1**	**31.551**	**0**	**50**	**63**	**50**	**130**
Camphor	1	463.6757	28.6167	500	87	50	130
Hexachlorobutadiene	1	34.4927	0	50	69	50	130
1,2,4-Trichlorobenzene	**1**	**42.0321**	**0**	**50**	**84**	**50**	**130**
1,2,3-Trichlorobenzene	**1**	**41.4684**	**0**	**50**	**83**	**50**	**130**
Naphthalene	1	39.5864	1.8208	50	76	50	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105065

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M166263.D	AD34095-002(MSD)	10/25/2022 7:57:00 PM
Duplicate(If applicable):	1M166261.D	AD34095-002(MS)	10/25/2022 7:11:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	71.2104	71.1536	0.08	30
Dichlorodifluoromethane	1	39.3656	57.02	37*	30
Chloromethane	1	45.0924	61.5553	31*	30
Bromomethane	1	40.2637	47.9848	17	30
Vinyl Chloride	1	42.1906	60.5738	36	40
Chloroethane	1	38.2567	47.574	22	30
Trichlorofluoromethane	1	37.7636	47.4754	23	30
Ethyl ether	1	45.6712	51.159	11	30
Furan	1	42.3975	50.0098	16	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	37.5929	46.0941	20	30
Methylene Chloride	1	37.5734	42.1099	11	30
Acrolein	1	49.7422	98.4885	66*	30
Acrylonitrile	1	35.0529	38.7405	10	30
Iodomethane	1	40.789	44.2633	8.2	30
Acetone	1	167.4156	197.656	17	30
Carbon Disulfide	1	38.5579	43.3383	12	30
t-Butyl Alcohol	1	181.0916	194.6184	7.2	30
n-Hexane	1	37.5531	45.7849	20	30
Di-isopropyl-ether	1	48.0098	53.5091	11	30
1,1-Dichloroethene	1	41.1373	48.0571	16	40
Methyl Acetate	1	55.2921	55.7415	0.81	30
Methyl-t-butyl ether	1	41.8787	47.5312	13	30
1,1-Dichloroethane	1	40.064	45.4506	13	40
trans-1,2-Dichloroethene	1	39.8694	45.8301	14	30
Ethyl-t-butyl ether	1	46.3572	51.4136	10	30
cis-1,2-Dichloroethene	1	37.9476	41.821	9.7	30
Bromochloromethane	1	38.1182	42.4999	11	30
2,2-Dichloropropane	1	40.1348	47.5569	17	30
Ethyl acetate	1	16.5575	27.1581	48*	30
1,4-Dioxane	1	1743.629	1767.554	1.4	30
1,1-Dichloropropene	1	38.2943	46.0274	18	30
Chloroform	1	37.9519	42.8243	12	40
Cyclohexane	1	38.7485	45.5016	16	30
1,2-Dichloroethane	1	36.476	42.9254	16	40
2-Butanone	1	34.7189	36.1888	4.1	40
1,1,1-Trichloroethane	1	37.1892	44.7116	18	30
Carbon Tetrachloride	1	37.2318	43.8199	16	40
Vinyl Acetate	1	27.153	32.5956	18	30
Bromodichloromethane	1	37.155	44.9243	19	30
Methylcyclohexane	1	39.413	50.114	24	30
Dibromomethane	1	36.0701	41.2365	13	30
1,2-Dichloropropane	1	37.5744	43.2363	14	30
Trichloroethene	1	36.3133	43.8034	19	40
Benzene	1	36.6097	43.822	18	40
tert-Amyl methyl ether	1	43.9711	50.8326	14	30
Iso-propylacetate	1	28.2457	32.9736	15	30
Methyl methacrylate	1	53.7214	52.8246	1.7	30
Dibromochloromethane	1	37.9139	42.4943	11	30
2-Chloroethylvinylether	1	41.1045	49.0105	18	30
cis-1,3-Dichloropropene	1	41.0419	46.2487	12	30
trans-1,3-Dichloropropene	1	39.0542	44.826	14	30
Ethyl methacrylate	1	31.2359	39.8848	24	30
1,1,2-Trichloroethane	1	36.6974	42.0305	14	30
1,2-Dibromoethane	1	37.6083	43.1156	14	30
1,3-Dichloropropane	1	39.865	44.7426	12	30
4-Methyl-2-Pentanone	1	33.9342	43.6576	25	30
2-Hexanone	1	32.4465	35.7312	9.6	30
Tetrachloroethene	1	37.5736	42.5989	13	40
Toluene	1	36.6192	41.6555	13	40
1,1,1,2-Tetrachloroethane	1	38.6556	44.3788	14	30
Chlorobenzene	1	38.1618	43.6059	13	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits

QC Batch: MBS105065

Method: 8260D | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	28.0272	34.7373	21	30
n-Amyl acetate	1	17.7004	27.7055	44*	30
Bromoform	**1**	**42.1552**	**40.424**	**4.2**	**30**
Ethylbenzene	**1**	**45.4253**	**41.8315**	**8.2**	**30**
1,1,2,2-Tetrachloroethane	**1**	**42.6074**	**43.5418**	**2.2**	**30**
Styrene	**1**	**46.5898**	**44.5005**	**4.6**	**30**
m&p-Xylenes	**1**	**86.2007**	**81.5796**	**5.5**	**30**
o-Xylene	**1**	**42.8645**	**41.0402**	**4.3**	**30**
trans-1,4-Dichloro-2-butene	1	42.3693	42.532	0.38	30
1,3-Dichlorobenzene	**1**	**38.1777**	**42.9728**	**12**	**30**
1,4-Dichlorobenzene	**1**	**36.2618**	**41.7684**	**14**	**40**
1,2-Dichlorobenzene	**1**	**36.9964**	**42.1545**	**13**	**40**
Isopropylbenzene	**1**	**48.2744**	**50.4617**	**4.4**	**30**
Cyclohexanone	1	251.1543	257.2401	2.4	30
Camphene	1	44.563	45.1922	1.4	30
1,2,3-Trichloropropane	1	44.221	41.6828	5.9	30
2-Chlorotoluene	1	43.9526	43.8404	0.26	30
p-Ethyltoluene	1	50.4759	50.0959	0.76	30
4-Chlorotoluene	1	45.2637	43.4881	4	30
n-Propylbenzene	1	47.5171	47.7063	0.4	40
Bromobenzene	1	46.1554	48.8786	5.7	30
1,3,5-Trimethylbenzene	1	48.5403	47.6034	1.9	30
Butyl methacrylate	1	44.1063	45.7728	3.7	30
t-Butylbenzene	1	46.2511	47.5585	2.8	30
1,2,4-Trimethylbenzene	1	43.3877	43.7798	0.9	30
sec-Butylbenzene	1	47.5973	55.1953	15	40
4-Isopropyltoluene	1	44.989	53.103	17	30
n-Butylbenzene	1	38.515	47.7692	21	30
p-Diethylbenzene	1	39.2765	48.5018	21	30
1,2,4,5-Tetramethylbenzene	1	43.9405	55.6461	24	30
1,2-Dibromo-3-Chloropropane	**1**	**31.551**	**44.5102**	**34***	**30**
Camphor	1	463.6757	470.7975	1.5	30
Hexachlorobutadiene	1	34.4927	39.6393	14	30
1,2,4-Trichlorobenzene	**1**	**42.0321**	**46.3686**	**9.8**	**30**
1,2,3-Trichlorobenzene	**1**	**41.4684**	**46.992**	**12**	**30**
Naphthalene	1	39.5864	50.1825	24	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M166257.D
Matrix: Soil

Blank Analysis Date: 10/25/22 17:38
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD34112-001	1M166260.D	10/25/22 18:48
AD34095-002	1M166264.D	10/25/22 20:21
AD34095-002(MSD	1M166263.D	10/25/22 19:57
MBS105065	1M166262.D	10/25/22 19:34
AD34095-002(MS)	1M166261.D	10/25/22 19:11

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M166225.D
Analysis Date: 10/24/22 22:05
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.500 to 7.510 min

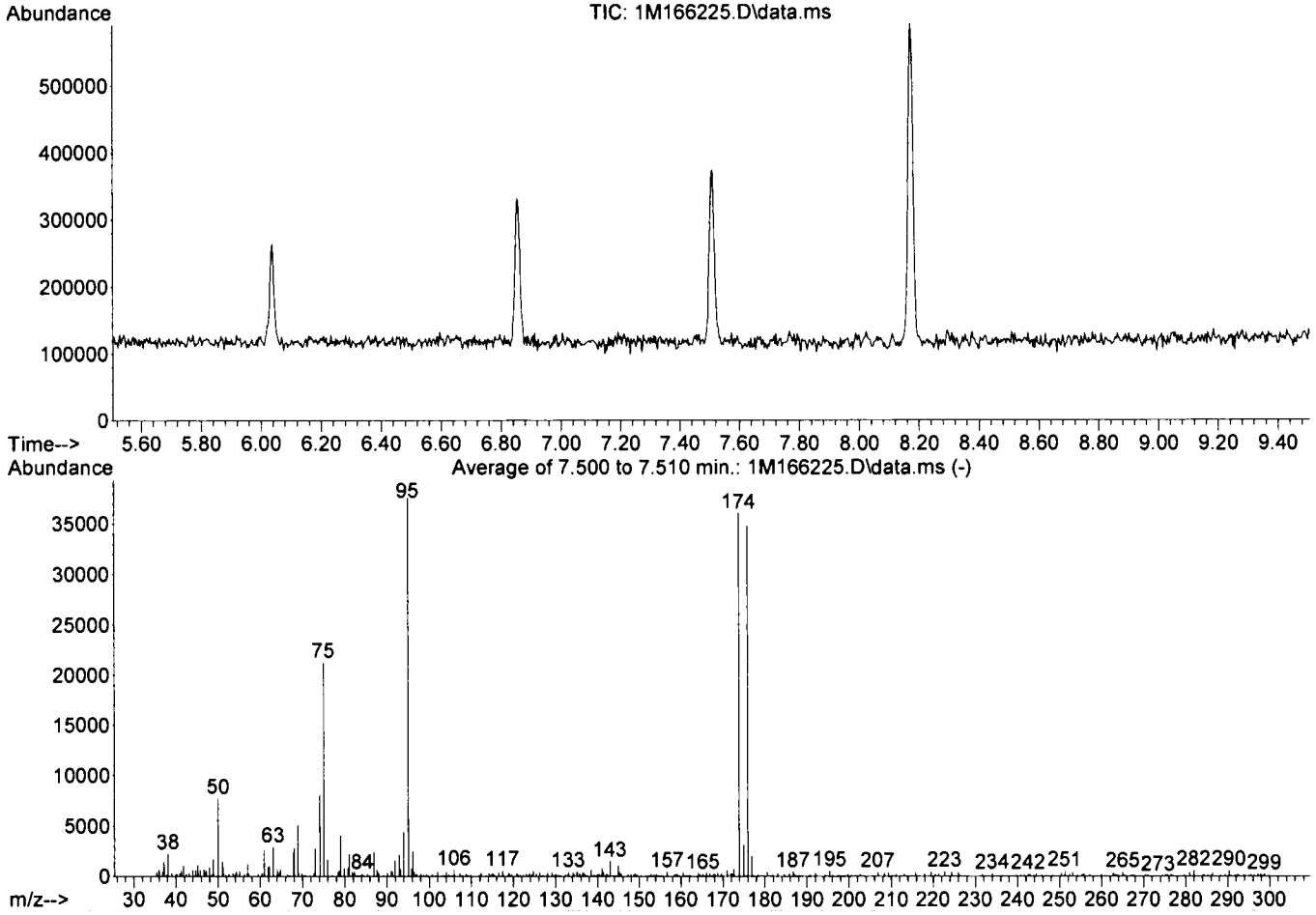
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	20.5	7726	PASS
75	95	30	60	56.6	21268	PASS
95	95	100	100	100.0	37598	PASS
96	95	5	9	6.7	2503	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	95.9	36066	PASS
175	174	5	9	8.7	3124	PASS
176	174	95	101	96.6	34830	PASS
177	176	5	9	5.8	2031	PASS

Data File	Sample Number	Analysis Date:
1M166227.D	CAL @ 0.5 PPB	10/24/22 22:43
1M166228.D	CAL @ 1 PPB	10/24/22 23:07
1M166229.D	CAL @ 5 PPB	10/24/22 23:30
1M166230.D	CAL @ 2 PPB	10/24/22 23:53
1M166231.D	CAL @ 20 PPB	10/25/22 00:16
1M166232.D	CAL @50 PPB	10/25/22 00:40
1M166233.D	500 PPB	10/25/22 01:03
1M166235.D	CAL @250 PPB	10/25/22 01:49
1M166237.D	CAL @ 100 PPB	10/25/22 02:36
1M166240.D	ICV	10/25/22 03:46

Data Path : G:\GcMsData\2022\GCMS_1\Data\10-24-22\
Data File : 1M166225.D
Acq On : 24 Oct 2022 22:05
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_8\MethodQt\8M_A1015M.M
Title : @GCMS_8,ug,624,8260
Last Update : Mon Oct 17 23:12:47 2022



Spectrum Information: Average of 7.500 to 7.510 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	7726	PASS
75	95	30	60	56.6	21268	PASS
95	95	100	100	100.0	37598	PASS
96	95	5	9	6.7	2503	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	95.9	36066	PASS
175	174	5	9	8.7	3124	PASS
176	174	95	101	96.6	34830	PASS
177	176	5	9	5.8	2031	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 1
Data File: 1M166252.D
Analysis Date: 10/25/22 15:42
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.497 to 7.503 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	23.4	24326	PASS
75	95	30	60	55.4	57485	PASS
95	95	100	100	100.0	103792	PASS
96	95	5	9	5.0	5196	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.7	86920	PASS
175	174	5	9	8.4	7320	PASS
176	174	95	101	97.6	84864	PASS
177	176	5	9	5.3	4516	PASS

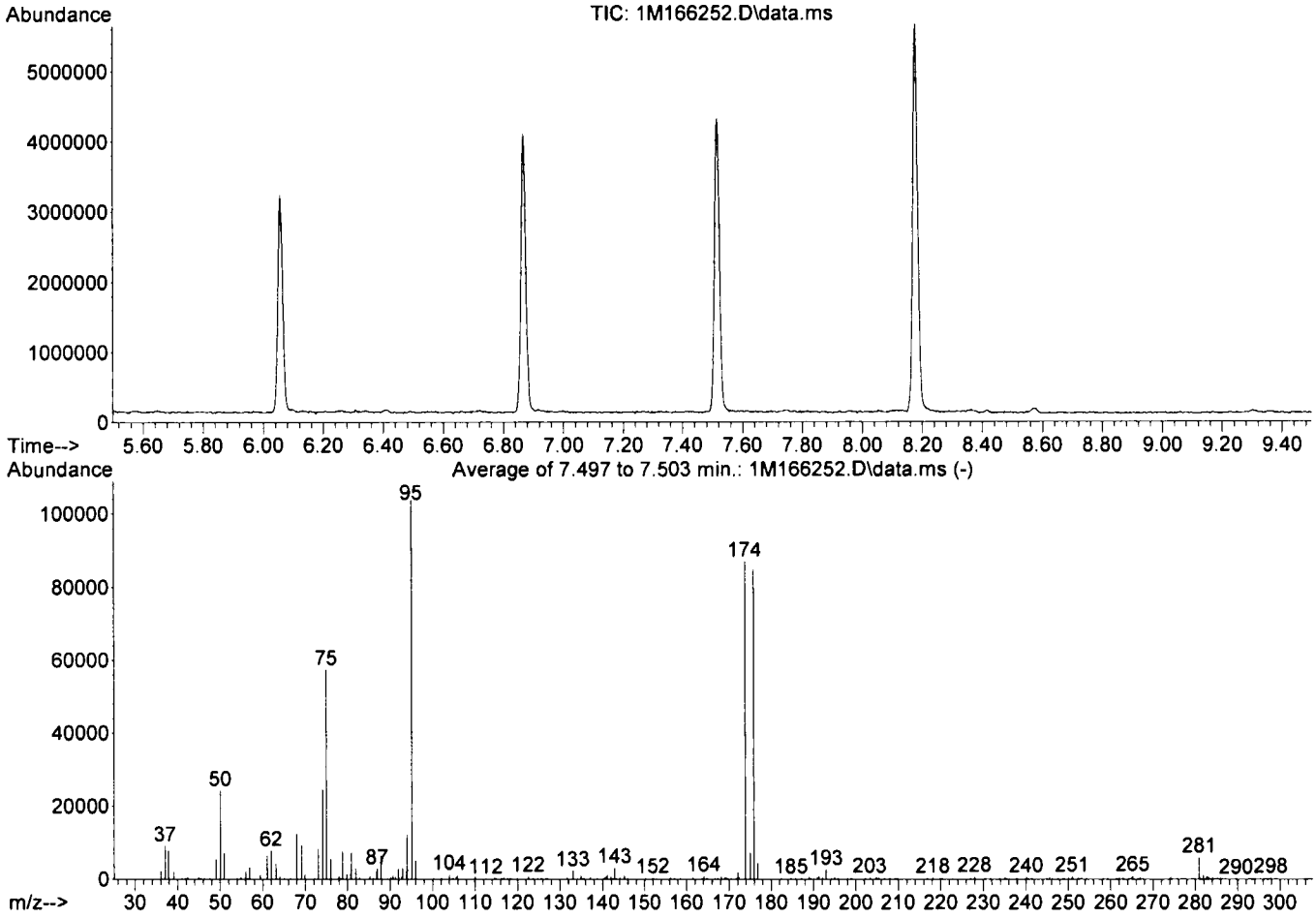
Data File	Sample Number	Analysis Date:
1M166253.D	CAL @ 50 PPB	10/25/22 16:05
1M166254.D	50 PPB	10/25/22 16:28
1M166257.D	DAILY BLANK	10/25/22 17:38
1M166258.D	BLK	10/25/22 18:01
1M166259.D	AD34079-003	10/25/22 18:25
1M166260.D	AD34112-001	10/25/22 18:48
1M166261.D	AD34095-002(MS)	10/25/22 19:11
1M166262.D	MBS105065	10/25/22 19:34
1M166263.D	AD34095-002(MSD	10/25/22 19:57
1M166264.D	AD34095-002	10/25/22 20:21
1M166265.D	BLK	10/25/22 20:44
1M166266.D	AD34096-004	10/25/22 21:07
1M166267.D	AD34096-006	10/25/22 21:30
1M166268.D	AD34096-008	10/25/22 21:54
1M166269.D	AD34096-010	10/25/22 22:17
1M166270.D	AD34096-012	10/25/22 22:40
1M166271.D	AD34096-014	10/25/22 23:04
1M166272.D	AD34096-016	10/25/22 23:27
1M166273.D	AD34096-018	10/25/22 23:50
1M166274.D	AD34096-020	10/26/22 00:13
1M166275.D	AD34096-022	10/26/22 00:37
1M166276.D	AD34096-024	10/26/22 01:00
1M166277.D	AD34105-001	10/26/22 01:23
1M166278.D	AD34105-002	10/26/22 01:46
1M166279.D	AD34105-003	10/26/22 02:10
1M166280.D	AD34105-004	10/26/22 02:33
1M166281.D	AD34105-005	10/26/22 02:56
1M166282.D	AD34105-006	10/26/22 03:19
1M166283.D	34122-001	10/26/22 03:43
1M166284.D	34108-001	10/26/22 04:06
1M166285.D	34085-002	10/26/22 04:29
1M166286.D	BLK	10/26/22 04:53

CLPBFB

Data Path : G:\GcMsData\2022\GCMS_1\Data\10-25-22\
Data File : 1M166252.D
Acq On : 25 Oct 2022 15:42
Operator : SG
Sample : BFB TUNE
Misc : S,5G
ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_1\MethodQt\1M_S1024.M
Title : @GCMS_1,ug,624,8260
Last Update : Tue Oct 25 17:52:15 2022



Spectrum Information: Average of 7.497 to 7.503 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.4	24326	PASS
75	95	30	60	55.4	57485	PASS
95	95	100	100	100.0	103792	PASS
96	95	5	9	5.0	5196	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	83.7	86920	PASS
175	174	5	9	8.4	7320	PASS
176	174	95	101	97.6	84864	PASS
177	176	5	9	5.3	4516	PASS

IC

2102502 0033

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M166231.D	CAL @ 20 PPB	10/25/22 00:16	2	1M166229.D	CAL @ 5 PPB	10/24/22 23:30
3	1M166230.D	CAL @ 2 PPB	10/24/22 23:53	4	1M166232.D	CAL @50 PPB	10/25/22 00:40
5	1M166237.D	CAL @ 100 PPB	10/25/22 02:36	6	1M166235.D	CAL @250 PPB	10/25/22 01:49
7	1M166228.D	CAL @ 1 PPB	10/24/22 23:07	8	1M166227.D	CAL @ 0.5 PPB	10/24/22 22:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Qua	0.1813	0.1824	0.3056	0.2001	0.2449	0.2159	-----	-----	-----	0.222	1.67	0.996	0.998	21	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Dichlorodifluorometha	1	0	Avg	0.0917	0.1270	0.1232	0.0985	0.1213	0.1033	-----	-----	-----	0.111	1.66	0.994	0.997	13	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0			
Chloromethane	1	0	Avg	0.1176	0.1790	0.1209	0.1436	0.1619	0.1399	-----	-----	-----	0.144	1.83	0.995	0.998	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Bromomethane	1	0	Avg	0.0824	0.1170	0.1142	0.1001	0.1230	0.1165	-----	-----	-----	0.109	2.21	0.998	0.998	14	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0			
Vinyl Chloride	1	0	Avg	0.1309	0.1557	0.2181	0.1499	0.1778	0.1605	-----	-----	-----	0.166	1.93	0.997	0.998	18	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Chloroethane	1	0	Avg	0.1040	0.1312	0.1561	0.1157	0.1311	0.1206	-----	-----	-----	0.126	2.30	0.998	0.999	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Trichlorofluoromethan	1	0	Avg	0.2667	0.3777	0.4270	0.3068	0.3507	0.3124	-----	-----	-----	0.340	2.51	0.997	0.998	17	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Ethyl ether	1	0	Avg	0.0844	0.1323	0.0773	0.0988	0.1127	0.1038	-----	-----	-----	0.102	2.74	0.998	0.999	20	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
Furan	1	0	Avg	0.1812	0.2162	0.2363	0.2149	0.2446	0.2258	-----	-----	-----	0.220	2.78	0.998	0.999	10	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
1,1,2-Trichloro-1,2,2-tr	1	0	Qua	0.1386	0.1877	0.2597	0.1634	0.1836	0.1637	-----	-----	-----	0.183	2.94	0.997	0.999	23	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Methylene Chloride	1	0	Avg	0.1653	0.2269	0.2794	0.1854	0.2039	0.1800	-----	-----	-----	0.207	3.35	0.997	0.999	20	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Acrolein	1	0	Qua	0.0189	0.0278	0.0352	0.0251	0.0271	0.0234	-----	-----	-----	0.0263	2.85	0.995	0.998	21		100.0	25.00	10.00	250.0	500.0	1250.			
Acrylonitrile	1	0	Avg	0.0587	0.0810	0.0863	0.0634	0.0753	0.0692	-----	-----	-----	0.0724	3.55	0.998	0.998	15		20.00	5.00	2.00	50.00	100.0	250.0			
Iodomethane	1	0	Qua	0.1187	0.0923	0.1117	0.1685	0.1924	0.1916	-----	-----	-----	0.146	3.09	0.999	0.999	30		20.00	5.00	2.00	50.00	100.0	250.0			
Acetone	1	0	Avg	0.0499	0.0627	0.0671	0.0544	0.0572	0.0552	-----	-----	-----	0.0578	2.98	1.00	1.00	11	0.10 a	100.0	25.00	10.00	250.0	500.0	1250.			
Carbon Disulfide	1	0	Avg	0.3822	0.4990	0.5428	0.4513	0.5226	0.4843	-----	-----	-----	0.480	3.15	0.998	0.999	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
t-Butyl Alcohol	1	0	Avg	0.0214	0.0218	0.0228	0.0223	0.0246	0.0233	-----	-----	-----	0.0228	3.41	0.999	0.999	5.1		100.0	25.00	10.00	250.0	500.0	1250.			
n-Hexane	1	0	Qua	0.1803	0.2313	0.3212	0.2115	0.2353	0.2151	-----	-----	-----	0.233	3.81	0.998	0.999	20		20.00	5.00	2.00	50.00	100.0	250.0			
Di-isopropyl-ether	1	0	Avg	0.4244	0.4472	0.3052	0.4952	0.5611	0.5227	-----	-----	-----	0.459	3.98	0.999	0.999	20		20.00	5.00	2.00	50.00	100.0	250.0			
1,1-Dichloroethene	1	0	Avg	0.2178	0.2704	0.3180	0.2566	0.2915	0.2642	-----	-----	-----	0.270	2.95	0.998	0.999	13	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Methyl Acetate	1	0	Avg	0.1619	0.1859	0.1390	0.1677	0.1888	0.1682	-----	-----	-----	0.169	3.25	0.997	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Methyl-t-butyl ether	1	0	Avg	0.3763	0.4203	0.4992	0.4322	0.4870	0.4568	-----	0.5014	-----	0.453	3.58	0.999	0.999	10	0.10	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
1,1-Dichloroethane	1	0	Avg	0.2696	0.3403	0.3834	0.3211	0.3587	0.3284	-----	-----	-----	0.334	3.94	0.998	0.999	12	0.20	20.00	5.00	2.00	50.00	100.0	250.0			
trans-1,2-Dichloroethe	1	0	Avg	0.1639	0.1982	0.2133	0.1904	0.2119	0.1945	-----	-----	-----	0.195	3.58	0.998	0.999	9.2	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Ethyl-t-butyl ether	1	0	Avg	0.3832	0.3795	0.3974	0.4366	0.4906	0.4667	-----	-----	-----	0.426	4.28	0.999	0.999	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
cis-1,2-Dichloroethene	1	0	Avg	0.2899	0.3511	0.4417	0.2924	0.3497	0.3240	-----	-----	-----	0.342	4.40	0.998	0.998	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Bromochloromethane	1	0	Avg	0.1503	0.1825	0.2291	0.1597	0.1703	0.1458	-----	-----	-----	0.173	4.57	0.995	0.999	18		20.00	5.00	2.00	50.00	100.0	250.0			
2,2-Dichloropropane	1	0	Avg	0.2583	0.3124	0.3123	0.2981	0.3284	0.3089	-----	-----	-----	0.303	4.41	0.999	0.999	7.9		20.00	5.00	2.00	50.00	100.0	250.0			
Ethyl acetate	1	0	Qua	0.1805	0.2045	0.1059	0.1916	0.2127	0.2006	-----	-----	-----	0.183	4.44	0.999	0.999	21		20.00	5.00	2.00	50.00	100.0	250.0			
1,4-Dioxane	1	0	Qua	0.0023	0.0028	0.0015	0.0028	0.0029	0.0029	-----	-----	-----	0.00256	5.58	1.00	1.00	22		1000.	250.0	100.0	2500.	5000.	12500			
1,1-Dichloropropene	1	0	Avg	0.2198	0.2657	0.3174	0.2490	0.2828	0.2609	-----	-----	-----	0.266	4.86	0.998	0.999	12		20.00	5.00	2.00	50.00	100.0	250.0			
Chloroform	1	0	Avg	0.3172	0.4237	0.4694	0.3523	0.3821	0.3517	-----	-----	-----	0.383	4.62	0.999	0.999	14	0.20	20.00	5.00	2.00	50.00	100.0	250.0			
Dibromofluoromethan	1	0	Avg	0.3230	0.3335	0.3346	0.3162	0.3472	0.3257	-----	0.3236	0.3303	0.329	4.73	-1	-1	2.9		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Cyclohexane	1	0	Avg	0.2154	0.2825	0.3600	0.2627	0.2945	0.2651	-----	-----	-----	0.280	4.80	0.997	0.999	17	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
1,2-Dichloroethane-d4	1	0	Avg	0.1450	0.1480	0.1460	0.1483	0.1475	0.1458	-----	0.1432	0.1510	0.147	4.95	-1	-1	1.6		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2403	0.3072	0.3227	0.2647	0.2898	0.2751	-----	-----	-----	0.283	4.99	0.999	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
2-Butanone	1	0	Avg	0.0837	0.1106	0.1095	0.0929	0.1016	0.0963	-----	-----	-----	0.0991	4.41	0.999	0.999	10	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0			
1,1,1-Trichloroethane	1	0	Avg	0.2850	0.3727	0.4111	0.3341	0.3601	0.3387	-----	-----	-----	0.350	4.76	0.999	0.999	12	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Carbon Tetrachloride	1	0	Avg	0.2591	0.2986	0.4115	0.3003	0.3389	0.3152	-----	-----	-----	0.321	4.87	0.998	0.999	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Vinyl Acetate	1	0	Qua	0.4177	0.2562	0.4620	0.4716	0.5359	0.4833	-----	-----	-----	0.438	3.98	0.997	0.999	22		20.00	5.00	2.00	50.00	100.0	250.0			
Bromodichloromethan	1	0	Avg	0.2267	0.2830	0.3121	0.2547	0.2838	0.2658	-----	-----	-----	0.271	5.64	0.999	0.999	11	0.20	20.00	5.00	2.00	50.00	100.0	250.0			

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 13.74

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2102502 0034

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	1M166231.D	CAL @ 20 PPB	10/25/22 00:16	2	1M166229.D	CAL @ 5 PPB	10/24/22 23:30
3	1M166230.D	CAL @ 2 PPB	10/24/22 23:53	4	1M166232.D	CAL @50 PPB	10/25/22 00:40
5	1M166237.D	CAL @ 100 PPB	10/25/22 02:36	6	1M166235.D	CAL @250 PPB	10/25/22 01:49
7	1M166228.D	CAL @ 1 PPB	10/24/22 23:07	8	1M166227.D	CAL @ 0.5 PPB	10/24/22 22:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2390	0.2856	0.3060	0.2985	0.3362	0.3180	-----	-----	-----	0.297	5.49	0.999	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Dibromomethane	1	0	Avg	0.1284	0.1612	0.1913	0.1454	0.1581	0.1478	-----	-----	-----	0.155	5.57	0.999	0.999	14		20.00	5.00	2.00	50.00	100.0	250.0			
1,2-Dichloropropane	1	0	Avg	0.1733	0.2231	0.2551	0.1878	0.2050	0.1902	-----	-----	-----	0.206	5.50	0.999	0.999	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Trichloroethene	1	0	Avg	0.1970	0.2587	0.3046	0.2226	0.2435	0.2274	-----	-----	-----	0.242	5.37	0.999	0.999	15	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0			
Benzene	1	0	Avg	0.6454	0.7588	0.9046	0.7717	0.8296	0.7714	-----	0.9452	-----	0.804	4.99	0.999	0.999	12	0.50	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
tert-Amyl methyl ether	1	0	Avg	0.3799	0.3982	0.4261	0.4323	0.4994	0.4757	-----	-----	-----	0.435	5.04	0.999	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0			
Iso-propylacetate	1	0	Avg	0.2049	0.2241	0.2153	0.2396	0.2708	0.2652	-----	-----	-----	0.237	5.00	0.999	0.999	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
Methyl methacrylate	1	0	Avg	0.0836	0.0900	0.0991	0.1073	0.1227	0.1106	-----	-----	-----	0.102	5.54	0.997	0.999	14	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
Dibromochloromethan	1	0	Avg	0.1122	0.1343	0.1565	0.1307	0.1375	0.1359	-----	-----	-----	0.135	6.54	1.00	1.00	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
2-Chloroethylvinylethe	1	0	Avg	0.0503	0.0468	0.0660	0.0560	0.0631	0.0611	-----	-----	-----	0.0573	5.80	0.999	0.999	13		20.00	5.00	2.00	50.00	100.0	250.0			
cis-1,3-Dichloropropen	1	0	Avg	0.1540	0.1718	0.2205	0.1832	0.2039	0.1975	-----	-----	-----	0.189	5.90	0.999	0.999	13	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0			
trans-1,3-Dichloroprop	1	0	Avg	0.1428	0.1645	0.1943	0.1677	0.1862	0.1817	-----	-----	-----	0.173	6.20	0.999	0.999	11	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Ethyl methacrylate	1	0	Avg	0.0860	0.0946	0.1250	0.1030	0.1186	0.1179	-----	-----	-----	0.108	6.23	0.999	0.999	14	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
1,1,2-Trichloroethane	1	0	Avg	0.1046	0.1198	0.1497	0.1093	0.1128	0.1090	-----	-----	-----	0.118	6.31	1.00	1.00	14	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
1,2-Dibromoethane	1	0	Avg	0.1042	0.1173	0.1181	0.1149	0.1183	0.1135	-----	0.1392	-----	0.118	6.62	1.00	1.00	9.0	0.10	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
1,3-Dichloropropane	1	0	Avg	0.1659	0.1726	0.2055	0.1820	0.1945	0.1873	-----	-----	-----	0.185	6.41	1.00	1.00	7.8		20.00	5.00	2.00	50.00	100.0	250.0			
4-Methyl-2-Pentanone	1	0	Avg	0.0989	0.1199	0.1525	0.1208	0.1326	0.1256	-----	-----	-----	0.125	5.98	0.999	0.999	14	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0			
2-Hexanone	1	0	Avg	0.0788	0.0831	0.1027	0.0903	0.0976	0.0917	-----	-----	-----	0.0908	6.43	0.999	0.999	9.7	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0			
Tetrachloroethene	1	0	Avg	0.1092	0.1279	0.1625	0.1230	0.1290	0.1261	-----	-----	-----	0.130	6.41	1.00	1.00	14	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0			
Toluene-d8	1	0	Avg	0.8406	0.8523	0.8443	0.8338	0.8482	0.8472	-----	0.8419	0.8612	0.846	6.06	-1	-1	0.97		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Toluene	1	0	Avg	0.2634	0.3301	0.3942	0.3091	0.3344	0.3215	-----	0.3805	-----	0.333	6.09	0.999	0.999	13	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.1129	0.1244	0.1348	0.1235	0.1368	0.1321	-----	-----	-----	0.127	6.92	0.999	0.999	7.0		20.00	5.00	2.00	50.00	100.0	250.0			
Chlorobenzene	1	0	Avg	0.3213	0.3641	0.3983	0.3525	0.3720	0.3591	-----	-----	-----	0.361	6.89	1.00	1.00	7.0	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
n-Butyl acrylate	1	0	Avg	0.2109	0.1902	0.2672	0.2576	0.2474	0.2170	-----	-----	-----	0.232	7.15	0.996	1.00	13	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
n-Amyl acetate	1	0	Avg	0.2068	0.2289	0.2739	0.2550	0.2357	0.2073	-----	-----	-----	0.235	7.27	0.995	1.00	11	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
Bromoform	1	0	Avg	0.1048	0.1155	0.1438	0.1153	0.0990	0.0935	-----	-----	-----	0.112	7.35	0.998	0.999	16	0.10 a	20.00	5.00	2.00	50.00	100.0	250.0			
Ethylbenzene	1	0	Avg	0.1819	0.1884	0.2624	0.2041	0.1865	0.1671	-----	0.2175	-----	0.201	6.93	0.997	1.00	16	0.10	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
1,1,2,2-Tetrachloroeth	1	0	Qua	0.1817	0.1917	0.2630	0.1900	0.1565	0.1387	-----	-----	-----	0.187	7.57	0.994	0.999	23	0.10	20.00	5.00	2.00	50.00	100.0	250.0			
Bromofluorobenzene	1	0	Avg	0.7546	0.6536	0.7254	0.7461	0.5811	0.5576	-----	0.7599	0.7638	0.693	7.52	-1	-1	12		30.00	30.00	30.00	30.00	30.00	30.00		30.00	30.00
Styrene	1	0	Avg	0.4240	0.3795	0.4907	0.4909	0.4302	0.4024	-----	-----	-----	0.436	7.22	0.998	0.999	11	0.30	20.00	5.00	2.00	50.00	100.0	250.0			
m&p-Xylenes	1	0	Avg	0.2530	0.2420	0.3106	0.2924	0.2514	0.2365	-----	0.3196	0.3461	0.282	6.99	0.998	0.999	15	0.10	40.00	10.00	4.00	100.0	200.0	500.0		2.00	1.00
o-Xylene	1	0	Avg	0.2545	0.2519	0.3341	0.2871	0.2502	0.2343	-----	0.3430	-----	0.279	7.22	0.998	0.999	16	0.30 a	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.0824	0.0817	0.0781	0.0910	0.0829	0.0783	-----	-----	-----	0.0824	7.60	0.999	1.00	5.7		20.00	5.00	2.00	50.00	100.0	250.0			
1,3-Dichlorobenzene	1	0	Avg	0.3470	0.3459	0.4679	0.3751	0.3856	0.3663	-----	-----	-----	0.381	8.15	0.999	1.00	12	0.60 a	20.00	5.00	2.00	50.00	100.0	250.0			
1,4-Dichlorobenzene	1	0	Avg	0.3395	0.4076	0.5454	0.3794	0.3842	0.3691	-----	-----	-----	0.404	8.19	1.00	1.00	18	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
1,2-Dichlorobenzene	1	0	Avg	0.3053	0.3266	0.4315	0.3982	0.3645	0.3771	-----	-----	-----	0.367	8.42	0.999	0.999	13	0.40 a	20.00	5.00	2.00	50.00	100.0	250.0			
Isopropylbenzene	1	0	Avg	0.5929	0.5657	0.6932	0.7066	0.6334	0.5835	-----	0.6859	-----	0.637	7.42	0.997	0.999	9.1	0.10	20.00	5.00	2.00	50.00	100.0	250.0		1.00	
Cyclohexanone	1	0	Qua	0.0104	0.0050	0.0074	0.0089	0.0069	0.0083	-----	-----	-----	0.00788	7.49	0.994	0.996	23		100.0	25.00	10.00	250.0	500.0	1250.			
Camphene	1	0	Avg	0.2045	0.1846	0.2335	0.2538	0.2238	0.2134	-----	-----	-----	0.219	7.59	0.998	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0			
1,2,3-Trichloropropane	1	0	Avg	0.2257	0.2330	0.2140	0.2427	0.2005	0.1891	-----	-----	-----	0.218	7.61	0.997	0.998	9.3		20.00	5.00	2.00	50.00	100.0	250.0			
2-Chlorotoluene	1	0	Avg	0.3871	0.3550	0.5594	0.4594	0.4037	0.3989	-----	-----	-----	0.427	7.72	0.999	0.999	17		20.00	5.00	2.00	50.00	100.0	250.0			

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 13.74

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2102502 0035

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M166231.D	CAL @ 20 PPB	10/25/22 00:16	2	1M166229.D	CAL @ 5 PPB	10/24/22 23:30
3	1M166230.D	CAL @ 2 PPB	10/24/22 23:53	4	1M166232.D	CAL @50 PPB	10/25/22 00:40
5	1M166237.D	CAL @ 100 PPB	10/25/22 02:36	6	1M166235.D	CAL @250 PPB	10/25/22 01:49
7	1M166228.D	CAL @ 1 PPB	10/24/22 23:07	8	1M166227.D	CAL @ 0.5 PPB	10/24/22 22:43

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	0.5720	0.5454	0.6099	0.7271	0.6400	0.6053	-----	-----	-----	0.617	7.71	0.998	0.999	10		20.00	5.00	2.00	50.00	100.0	250.0			
4-Chlorotoluene	1	0	Avg	0.3696	0.3812	0.4458	0.4465	0.3876	0.3572	-----	-----	-----	0.398	7.77	0.997	0.999	9.7		20.00	5.00	2.00	50.00	100.0	250.0			
n-Propylbenzene	1	0	Avg	0.7234	0.6741	0.8676	0.8612	0.7488	0.6834	-----	0.8365	-----	0.771	7.65	0.996	0.999	11		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
Bromobenzene	1	0	Avg	0.3650	0.3616	0.5241	0.4012	0.3424	0.3160	-----	-----	-----	0.385	7.61	0.997	0.999	19		20.00	5.00	2.00	50.00	100.0	250.0			
1,3,5-Trimethylbenzen	1	0	Avg	0.4736	0.4233	0.5162	0.5745	0.4969	0.4808	-----	0.4540	-----	0.489	7.73	0.998	0.999	9.9		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
Butyl methacrylate	1	0	Avg	0.1437	0.1485	0.2084	0.1825	0.1764	0.1679	-----	-----	-----	0.171	7.74	0.999	1.00	14	0.50 a	20.00	5.00	2.00	50.00	100.0	250.0			
t-Butylbenzene	1	0	Avg	0.4773	0.4024	0.5239	0.5834	0.6194	0.5967	-----	0.5492	-----	0.536	7.93	0.999	1.00	14		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
1,2,4-Trimethylbenzen	1	0	Avg	0.4629	0.4483	0.5080	0.5672	0.6147	0.5758	-----	0.6542	-----	0.547	7.96	0.999	0.999	14		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
sec-Butylbenzene	1	0	Avg	0.6163	0.5214	0.6138	0.7495	0.8190	0.7737	-----	0.5758	-----	0.667	8.06	0.999	0.999	17		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
4-Isopropyltoluene	1	0	Avg	0.5115	0.4423	0.5037	0.6508	0.7033	0.6960	-----	0.5847	-----	0.585	8.13	0.999	0.999	18		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
n-Butylbenzene	1	0	Avg	0.5932	0.5517	0.6643	0.8602	0.7986	0.8269	-----	0.8929	-----	0.741	8.37	0.999	0.999	18		20.00	5.00	2.00	50.00	100.0	250.0		1.00	
p-Diethylbenzene	1	0	Qua	0.2970	0.2698	0.2976	0.4208	0.4148	0.4469	-----	-----	-----	0.358	8.35	0.999	1.00	22		20.00	5.00	2.00	50.00	100.0	250.0			
1,2,4,5-Tetramethylbe	1	0	Qua	0.3324	0.2904	0.3535	0.4823	0.5466	0.6021	-----	-----	-----	0.435	8.81	0.998	0.999	29		20.00	5.00	2.00	50.00	100.0	250.0			
1,2-Dibromo-3-Chloro	1	0	Avg	0.0493	0.0520	0.0795	0.0576	0.0525	0.0528	-----	-----	-----	0.0573	8.87	1.00	1.00	20	0.05 a	20.00	5.00	2.00	50.00	100.0	250.0			
Camphor	1	0	Qua	0.0160	0.0140	0.0233	0.0232	0.0255	0.0265	-----	-----	-----	0.0215	9.31	0.999	0.999	24		200.0	50.00	20.00	500.0	1000.	2500.			
Hexachlorobutadiene	1	0	Avg	0.1431	0.1205	0.1237	0.1768	0.1675	0.1759	-----	-----	-----	0.151	9.45	1.00	1.00	17		20.00	5.00	2.00	50.00	100.0	250.0			
1,2,4-Trichlorobenzen	1	0	Avg	0.2186	0.1748	0.2420	0.2922	0.2742	0.2726	-----	-----	-----	0.246	9.36	0.999	0.999	18	0.20 a	20.00	5.00	2.00	50.00	100.0	250.0			
1,2,3-Trichlorobenzen	1	0	Avg	0.2001	0.1690	0.2428	0.2624	0.2544	0.2515	-----	-----	-----	0.230	9.66	1.00	1.00	16		20.00	5.00	2.00	50.00	100.0	250.0			
Naphthalene	1	0	Avg	0.4571	0.3645	0.5377	0.6281	0.6466	0.6228	-----	0.6282	-----	0.555	9.52	0.999	0.999	19		20.00	5.00	2.00	50.00	100.0	250.0		1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 13.74
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 1M166253.D **Instrument:** GCMS 1

Cont Calibration Date/Time 10/25/2022 4:05:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.15	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	74.10	50	20	0.1	0.222	0.344	48.19	C1
Dichlorodifluoromethane	1	0		1.66	56.23	50	20	0.1	0.111	0.125	12.47	
Chloromethane	1	0		1.83	60.72	50	20	0.1	0.144	0.175	21.44	C1
Bromomethane	1	0		2.21	57.51	50	20	0.1	0.109	0.125	15.02	
Vinyl Chloride	1	0		1.92	58.72	50	20	0.1	0.166	0.194	17.44	
Chloroethane	1	0		2.29	56.44	50	20	0.1	0.126	0.143	12.88	
Trichlorofluoromethane	1	0		2.51	55.66	50	20	0.1	0.340	0.379	11.32	
Ethyl ether	1	0		2.74	53.78	50	20	0.5	0.102	0.109	7.56	
Furan	1	0		2.78	60.39	50	20	0.5	0.220	0.266	20.78	C1
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.94	56.70	50	20	0.1	0.183	0.203	13.40	
Methylene Chloride	1	0		3.35	51.67	50	20	0.1	0.207	0.214	3.35	
Acrolein	1	0		2.85	236.60	250	20		0.026	0.026	5.36	
Acrylonitrile	1	0		3.55	44.21	50	20		0.072	0.064	11.58	
Iodomethane	1	0		3.09	54.90	50	20		0.146	0.199	9.80	
Acetone	1	0		2.98	224.13	250	20	0.1	0.058	0.052	10.35	
Carbon Disulfide	1	0		3.16	58.45	50	20	0.1	0.480	0.562	16.90	
t-Butyl Alcohol	1	0		3.41	223.88	250	20		0.023	0.020	10.45	
n-Hexane	1	0		3.81	56.59	50	20		0.233	0.260	13.19	
Di-isopropyl-ether	1	0		3.99	63.02	50	20		0.459	0.579	26.03	C1
1,1-Dichloroethene	1	0		2.95	59.22	50	20	0.1	0.270	0.320	18.43	
Methyl Acetate	1	0		3.25	52.29	50	20	0.1	0.169	0.176	4.59	
Methyl-t-butyl ether	1	0		3.58	51.07	50	20	0.1	0.453	0.463	2.13	
1,1-Dichloroethane	1	0		3.94	56.78	50	20	0.2	0.334	0.379	13.56	
trans-1,2-Dichloroethene	1	0		3.58	58.50	50	20	0.1	0.195	0.229	17.01	
Ethyl-t-butyl ether	1	0		4.28	57.92	50	20	0.5	0.426	0.493	15.85	
cis-1,2-Dichloroethene	1	0		4.40	53.30	50	20	0.1	0.342	0.364	6.60	
Bromochloromethane	1	0		4.57	51.32	50	20		0.173	0.178	2.64	
2,2-Dichloropropane	1	0		4.41	59.00	50	20		0.303	0.358	18.01	
Ethyl acetate	1	0		4.44	49.07	50	20		0.183	0.204	1.86	
1,4-Dioxane	1	0		5.58	2160.32	2500	20		0.003	0.002	13.59	
1,1-Dichloropropene	1	0		4.86	56.89	50	20		0.266	0.303	13.77	
Chloroform	1	0		4.62	53.34	50	20	0.2	0.383	0.408	6.67	
Dibromofluoromethane	1	0	S	4.73	30.09	75	**		0.329	0.330	0.31	
Cyclohexane	1	0		4.80	55.64	50	20	0.1	0.280	0.312	11.29	
1,2-Dichloroethane-d4	1	0	S	4.94	31.82	75	**		0.147	0.156	6.06	
1,2-Dichloroethane	1	0		5.00	51.25	50	20	0.1	0.283	0.290	2.49	
2-Butanone	1	0		4.41	42.28	50	20	0.1	0.099	0.084	15.44	
1,1,1-Trichloroethane	1	0		4.76	55.27	50	20	0.1	0.350	0.387	10.54	
Carbon Tetrachloride	1	0		4.87	55.26	50	20	0.1	0.321	0.354	10.52	
Vinyl Acetate	1	0		3.98	51.21	50	20		0.438	0.533	2.41	
Bromodichloromethane	1	0		5.65	53.18	50	20	0.2	0.271	0.288	6.35	
Methylcyclohexane	1	0		5.49	59.49	50	20	0.1	0.297	0.354	18.99	
Dibromomethane	1	0		5.57	50.04	50	20		0.155	0.156	0.08	
1,2-Dichloropropane	1	0		5.50	53.11	50	20	0.1	0.206	0.219	6.22	
Trichloroethene	1	0		5.37	52.23	50	20	0.2	0.242	0.253	4.45	
Benzene	1	0		4.99	53.84	50	20	0.5	0.804	0.866	7.68	
tert-Amyl methyl ether	1	0		5.04	54.96	50	20		0.435	0.478	9.92	
Chlorobenzene-d5	1	0	I	6.87	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		5.00	51.82	50	20	0.5	0.237	0.245	3.65	
Methyl methacrylate	1	0		5.49	92.46	50	20	0.5	0.102	0.189	84.91	C1
Dibromochloromethane	1	0		6.54	51.68	50	20	0.1	0.135	0.139	3.37	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 50 PPB **Data File:** 1M166253.D **Instrument:** GCMS 1

Cont Calibration Date/Time 10/25/2022 4:05:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.80	48.74	50	20		0.057	0.056	2.51	
cis-1,3-Dichloropropene	1	0		5.90	55.19	50	20	0.2	0.189	0.208	10.38	
trans-1,3-Dichloropropene	1	0		6.20	53.30	50	20	0.1	0.173	0.184	6.61	
Ethyl methacrylate	1	0		6.23	50.21	50	20	0.5	0.108	0.108	0.42	
1,1,2-Trichloroethane	1	0		6.31	50.24	50	20	0.1	0.118	0.118	0.48	
1,2-Dibromoethane	1	0		6.62	50.67	50	20	0.1	0.118	0.120	1.33	
1,3-Dichloropropane	1	0		6.41	52.75	50	20		0.185	0.195	5.50	
4-Methyl-2-Pentanone	1	0		5.98	45.13	50	20	0.1	0.125	0.113	9.74	
2-Hexanone	1	0		6.43	46.30	50	20	0.1	0.091	0.084	7.40	
Tetrachloroethene	1	0		6.41	54.51	50	20	0.2	0.130	0.141	9.02	
Toluene-d8	1	0	S	6.06	29.92	75	**		0.846	0.844	0.28	
Toluene	1	0		6.09	52.04	50	20	0.4	0.333	0.347	4.08	
1,1,1,2-Tetrachloroethane	1	0		6.92	54.07	50	20		0.127	0.138	8.14	
Chlorobenzene	1	0		6.88	54.20	50	20	0.5	0.361	0.392	8.40	
1,4-Dichlorobenzene-d4	1	0	I	8.18	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.15	46.18	50	20	0.5	0.232	0.214	7.63	
n-Amyl acetate	1	0		7.27	43.41	50	20	0.5	0.235	0.204	13.18	
Bromoform	1	0		7.35	43.87	50	20	0.1	0.112	0.098	12.26	
Ethylbenzene	1	0		6.93	48.07	50	20	0.1	0.201	0.193	3.86	
1,1,2,2-Tetrachloroethane	1	0		7.57	47.18	50	20	0.1	0.187	0.162	5.64	
Bromofluorobenzene	1	0	S	7.52	25.90	75	**		0.693	0.598	13.67	
Styrene	1	0		7.22	50.24	50	20	0.3	0.436	0.438	0.47	
m&p-Xylenes	1	0		6.99	92.84	100	20	0.1	0.282	0.261	7.16	
o-Xylene	1	0		7.22	45.05	50	20	0.3	0.279	0.252	9.90	
trans-1,4-Dichloro-2-butene	1	0		7.59	54.59	50	20		0.082	0.090	9.19	
1,3-Dichlorobenzene	1	0		8.14	53.56	50	20	0.6	0.381	0.408	7.11	
1,4-Dichlorobenzene	1	0		8.19	50.61	50	20	0.5	0.404	0.409	1.22	
1,2-Dichlorobenzene	1	0		8.42	49.57	50	20	0.4	0.367	0.364	0.86	
Isopropylbenzene	1	0		7.42	51.53	50	20	0.1	0.637	0.657	3.07	
Cyclohexanone	1	0		7.49	243.27	250	20		0.008	0.007	2.69	
Camphene	1	0		7.59	54.30	50	20		0.219	0.238	8.60	
1,2,3-Trichloropropane	1	0		7.61	47.96	50	20		0.218	0.209	4.08	
2-Chlorotoluene	1	0		7.71	57.03	50	20		0.427	0.487	14.06	
p-Ethyltoluene	1	0		7.71	62.94	50	20		0.617	0.776	25.88	C1
4-Chlorotoluene	1	0		7.77	61.33	50	20		0.398	0.488	22.66	C1
n-Propylbenzene	1	0		7.65	57.43	50	20		0.771	0.885	14.86	
Bromobenzene	1	0		7.62	49.82	50	20		0.385	0.384	0.37	
1,3,5-Trimethylbenzene	1	0		7.73	63.17	50	20		0.489	0.617	26.35	C1
Butyl methacrylate	1	0		7.74	56.09	50	20	0.5	0.171	0.192	12.18	
t-Butylbenzene	1	0		7.93	57.38	50	20		0.536	0.615	14.76	
1,2,4-Trimethylbenzene	1	0		7.96	58.18	50	20		0.547	0.637	16.36	
sec-Butylbenzene	1	0		8.06	61.85	50	20		0.667	0.825	23.70	C1
4-Isopropyltoluene	1	0		8.13	60.88	50	20		0.585	0.712	21.77	C1
n-Butylbenzene	1	0		8.37	56.63	50	20		0.741	0.839	13.26	
p-Diethylbenzene	1	0		8.35	51.13	50	20		0.358	0.412	2.26	
1,2,4,5-Tetramethylbenzene	1	0		8.81	46.40	50	20		0.435	0.466	7.21	
1,2-Dibromo-3-Chloropropane	1	0		8.87	38.09	50	20	0.05	0.057	0.044	23.81	C1
Camphor	1	0		9.31	343.70	500	20		0.021	0.016	31.26	C1
Hexachlorobutadiene	1	0		9.45	55.79	50	20		0.151	0.169	11.57	
1,2,4-Trichlorobenzene	1	0		9.36	53.89	50	20	0.2	0.246	0.265	7.78	
1,2,3-Trichlorobenzene	1	0		9.66	51.86	50	20		0.230	0.239	3.73	
Naphthalene	1	0		9.52	47.55	50	20		0.555	0.528	4.89	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M166231.D Method: EPA 8260D

Analysis Date/Time: 10/25/22 00:16

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	787564	5.15	1230322	6.87	914188	8.18								
Eval File Area Limit:	393782-1575128		615161-2460644		457094-1828376									
Eval File Rt Limit:	4.65-5.65		6.37-7.37		7.68-8.68									
Data File Sample#														
1M166227.D CAL @ 0.5 PPB	796380	5.15	1227600	6.87	861442	8.18								
1M166228.D CAL @ 1 PPB	797910	5.15	1236356	6.87	946095	8.18								
1M166229.D CAL @ 5 PPB	757362	5.15	1187271	6.87	984332	8.18								
1M166230.D CAL @ 2 PPB	742664	5.15	1167413	6.87	944261	8.18								
1M166231.D CAL @ 20 PPB	787564	5.15	1230322	6.87	914188	8.18								
1M166232.D CAL @50 PPB	779043	5.15	1220975	6.87	949689	8.18								
1M166233.D 500 PPB	840938	5.15	1354629	6.87	1664493	8.18								
1M166235.D CAL @250 PPB	859198	5.15	1343667	6.87	1433506	8.18								
1M166237.D CAL @ 100 PPB	832555	5.15	1313727	6.87	1290312	8.18								
1M166240.D ICV	864358	5.15	1356757	6.87	1297108	8.18								

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M166253.D Method: EPA 8260D

Analysis Date/Time: 10/25/22 16:05

Lab File ID: CAL @ 50 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	899468	5.15	1392572	6.87	1313438	8.18								
Eval File Area Limit:	449734-1798936		696286-2785144		656719-2626876									
Eval File Rt Limit:	4.65-5.65		6.37-7.37		7.68-8.68									

Data File	Sample#						
1M166254.D	50 PPB	882288	5.15	1364307	6.87	1090223	8.18
1M166257.D	DAILY BLANK	922750	5.15	1426659	6.87	1108791	8.18
1M166258.D	BLK	995793	5.15	1507805	6.87	1095954	8.18
1M166259.D	AD34079-003	738078	5.15	864750	6.87	339664 A	8.18
1M166260.D	AD34112-001	951462	5.15	1477304	6.87	1381959	8.18
1M166261.D	AD34095-002(MS)	1007685	5.15	1646905	6.87	1489174	8.18
1M166262.D	MBS105065	1152281	5.15	1711724	6.87	1360921	8.18
1M166263.D	AD34095-002(MSD)	1140437	5.15	1745399	6.87	1295094	8.18
1M166264.D	AD34095-002	1108279	5.15	1656479	6.87	1341084	8.18
1M166265.D	BLK	1102172	5.15	1703062	6.87	1274896	8.18
1M166266.D	AD34096-004	1004403	5.15	1468039	6.87	1037366	8.18
1M166267.D	AD34096-006	1033296	5.15	1579654	6.87	1279866	8.18
1M166268.D	AD34096-008	1019490	5.15	1535587	6.87	1073125	8.18
1M166269.D	AD34096-010	935192	5.15	1326026	6.87	790851	8.18
1M166270.D	AD34096-012	952121	5.15	1403295	6.87	967382	8.18
1M166271.D	AD34096-014	710540	5.15	934782	6.87	551754 A	8.18
1M166272.D	AD34096-016	818009	5.15	1145982	6.87	721814	8.18
1M166273.D	AD34096-018	842785	5.15	1173029	6.87	663534	8.18
1M166274.D	AD34096-020	925191	5.15	1385738	6.87	853595	8.18
1M166275.D	AD34096-022	831447	5.15	1261546	6.87	895866	8.18
1M166276.D	AD34096-024	896245	5.15	1267865	6.87	697495	8.18
1M166277.D	AD34105-001	943754	5.15	1456544	6.87	1085592	8.18
1M166278.D	AD34105-002	943422	5.15	1462375	6.87	1100313	8.18
1M166279.D	AD34105-003	992053	5.15	1546379	6.87	1156848	8.18
1M166280.D	AD34105-004	933137	5.15	1471519	6.87	1060596	8.18
1M166281.D	AD34105-005	936545	5.15	1477267	6.87	1047279	8.18
1M166282.D	AD34105-006	928167	5.15	1462600	6.87	1122048	8.18
1M166283.D	34122-001	887577	5.15	1380944	6.87	1019946	8.18
1M166284.D	34108-001	865406	5.15	1267355	6.87	690435	8.18
1M166285.D	34085-002	840266	5.15	1188600	6.87	904771	8.18
1M166286.D	BLK	817032	5.15	1236636	6.87	1158825	8.18

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34112-001(2X)(R)
Client Id: SB-23SS(14-16)
Data File: 7G574532.D
Analysis Date: 10/28/22 15:13
Date Rec/Extracted: 10/25/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 2
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**140**	**1300**				

Worksheet #: 664082

Total Target Concentration 1300

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-28-22\
Data File : 7G574532.D
Signal(s) : FID2B.CH
Acq On : 28 Oct 2022 15:13
Operator : ABM/AH/JR/RR
Sample : AD34112-001(2X)(R)
Misc : S,TPH:2
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 15:39:13 2022
Quant Method : G:\GCDATA\2022\GC_7\MethodQt\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.522	97373	8.455		
23)	O-Terphenyl	8.288	218289	10.109		m
24)d	Diesel Range Organics(T	5.222f	45842811	2549.631		m
25)t	Total Petroleum Hydroca	5.222	51524750	2947.209		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

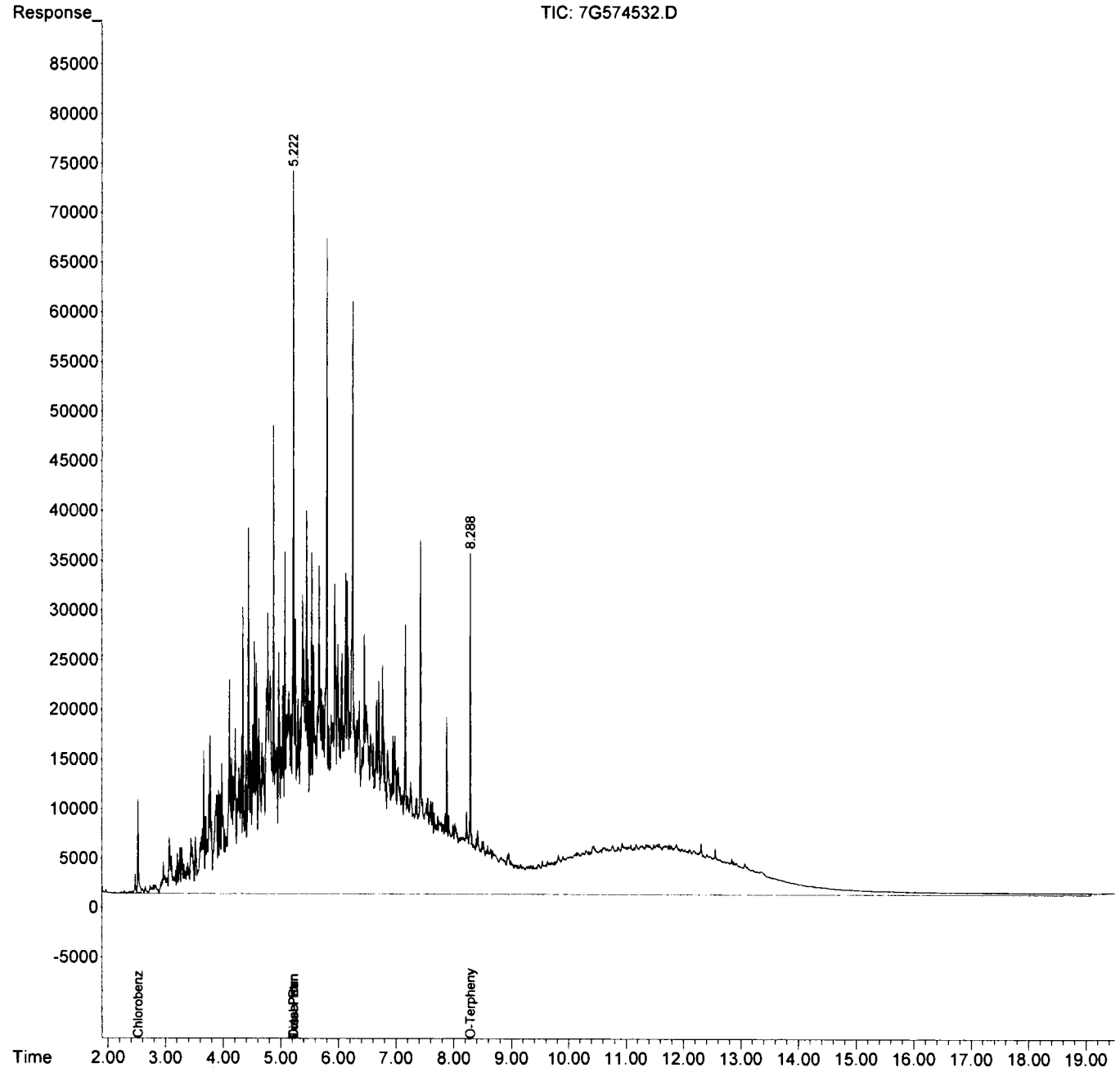
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-28-22\
Data File : 7G574532.D
Signal(s) : FID2B.CH
Acq On : 28 Oct 2022 15:13
Operator : ABM/AH/JR/RR
Sample : AD34112-001(2X)(R)
Misc : S,TPH:2
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 15:39:13 2022
Quant Method : G:\GCDATA\2022\GC_7\MethodQt\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103421
Client Id:
Data File: 7G57510.D
Analysis Date: 10/27/22 09:38
Date Rec/Extracted: NA-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 664082

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57510.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 9:38
Operator : ABM/AH/JR/RR
Sample : SMB103421
Misc : S,TPH
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:41:09 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.524	136453	11.848		
23)	O-Terphenyl	8.292	344050	15.934		
24)d	Diesel Range Organics(T	8.291f	724085	40.271		m
25)t	Total Petroleum Hydroca	8.291f	1736964	99.354		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

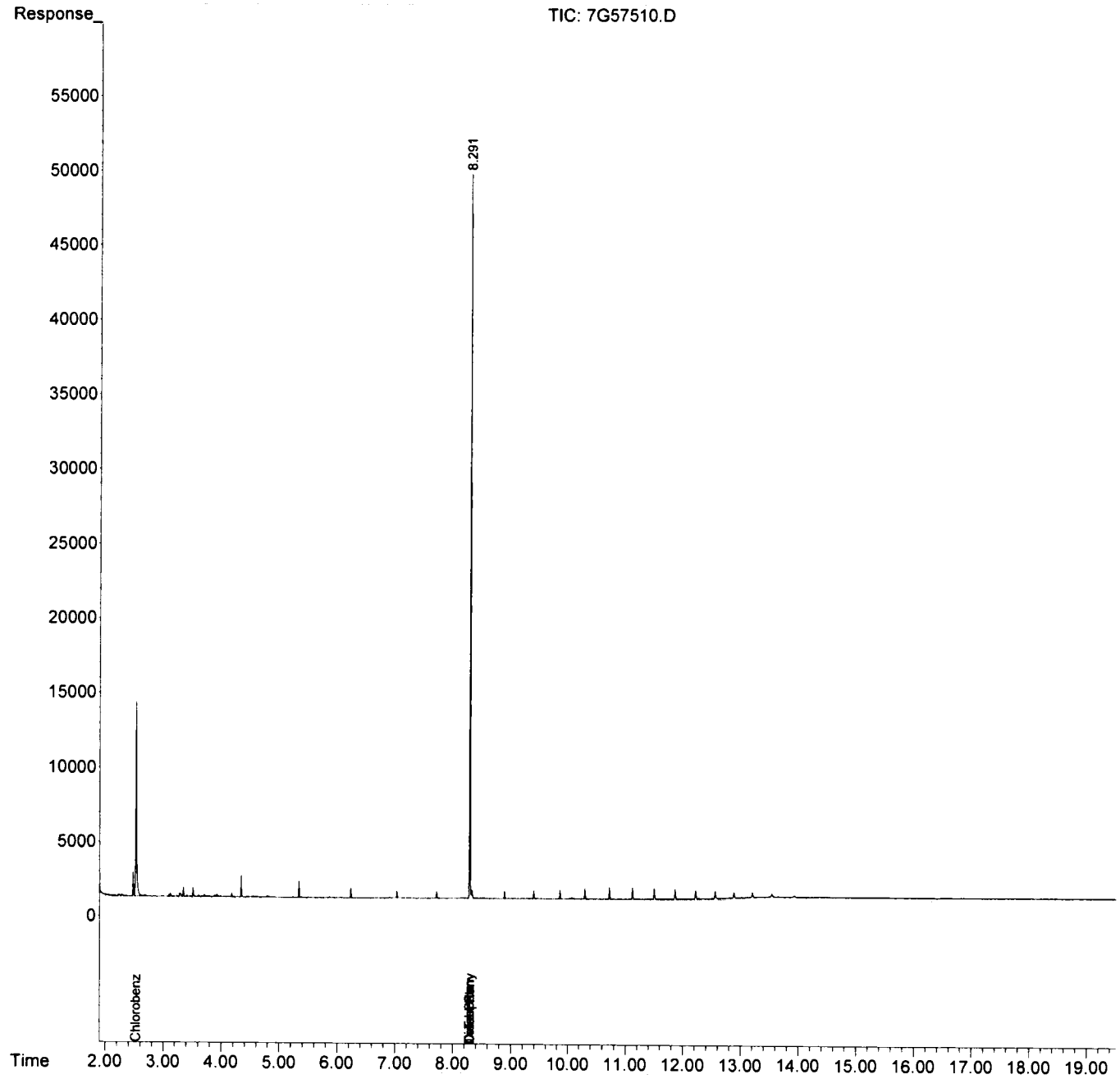
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57510.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 9:38
Operator : ABM/AH/JR/RR
Sample : SMB103421
Misc : S,TPH
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:41:09 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G574529.D	SMB103453	S	10/28/22 13:44	1		66	88				
7G57510.D	SMB103421	S	10/27/22 09:38	1		59	80				
7G57515.D	AD34112-001(2X)(MS)	S	10/27/22 12:05	2		68	84				
7G57516.D	AD34112-001(2X)(MSD)	S	10/27/22 12:35	2		92	118				
7G574532.D	AD34112-001(2X)(R)	S	10/28/22 15:13	2		84	101				
7G57491.D	SMB103421(MS)	S	10/26/22 16:58	1		64	86				
8G669400.D	SMB103453(MS)	S	10/28/22 13:45	1		77	80				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103421

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57491.D	SMB103421(MS)	10/26/2022 4:58:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2439.84	0	3000	81	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103453

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669400.D	SMB103453(MS)	10/28/2022 1:45:17 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669399.D	INST BLK(MECL2)	10/28/2022 10:39:47 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2190.92	0	3000	73	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103421

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57515.D	AD34112-001(2X)(MS)	10/27/2022 12:05:00 P
Non Spike(If applicable):	7G57501.D	AD34112-001	10/26/2022 9:50:00 PM
Inst Blank(If applicable):	7G57508.D	INST BLK	10/27/2022 3:12:00 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	6158.44	3954.47	3000	73	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57516.D	AD34112-001(2X)(MSD)	10/27/2022 12:35:00 P
Non Spike(If applicable):	7G57501.D	AD34112-001	10/26/2022 9:50:00 PM
Inst Blank(If applicable):	7G57508.D	INST BLK	10/27/2022 3:12:00 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	8595.761	3954.47	3000	155*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103421

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57516.D	AD34112-001(2X)(MSD)	10/27/2022 12:35:00 P
Duplicate(If applicable):	7G57515.D	AD34112-001(2X)(MS)	10/27/2022 12:05:00 P
Inst Blank(If applicable):	7G57508.D	INST BLK	10/27/2022 3:12:00 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	8595.761	6158.44	33	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103421
Blank Data File: 7G57510.D
Matrix: Soil

Blank Analysis Date: 10/27/22 09:38
Blank Extraction Date: 10/26/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34112-001(2X)(	7G57516.D	10/27/22 12:35
AD34112-001(2X)(	7G57515.D	10/27/22 12:05
SMB103421(MS)	7G57491.D	10/26/22 16:58

FORM 4
Blank Summary

Blank Number: SMB103453
Blank Data File: 7G574529.D
Matrix: Soil

Blank Analysis Date: 10/28/22 13:44
Blank Extraction Date: 10/28/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34112-001(2X)(	7G574532.D	10/28/22 15:13
SMB103453(MS)	8G669400.D	10/28/22 13:45

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G57362.D	TEST	09/30/22 12:59	Soil					
7G57363.D	CAL TPH@20PPM	09/30/22 13:30	Soil	7G57364.	8.3360	0.0636		
7G57364.D	CAL TPH@5PPM	09/30/22 14:00	Soil	7G57364.	8.3307	0		
7G57365.D	CAL TPH@10PPM	09/30/22 14:29	Soil	7G57364.	8.3305	0.0024		
7G57366.D	CAL TPH@40PPM	09/30/22 14:58	Soil	7G57364.	8.3371	0.0768		
7G57367.D	CAL TPH@100PPM	09/30/22 15:28	Soil	7G57364.	8.3495	0.2254		
7G57368.D	CAL TPH@500PPM	09/30/22 15:57	Soil	7G57364.	8.3866	0.6688		
7G57369.D	TPH@20PPM	09/30/22 16:26	Soil	7G57364.	8.3323	0.0192		
7G57370.D	ICVTPH@20PPM	09/30/22 16:56	Soil	7G57364.	8.3310	0.0036		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669147.D	INST BLK(MECL2)	10/10/22 08:56	Aqueous					
8G669148.D	TPH@20PPM	10/10/22 11:55	Aqueous					
8G669149.D	TPH@500PPM	10/10/22 12:39	Aqueous					
8G669150.D	CALTPH@100PPM	10/10/22 13:05	Aqueous	8G66915	6.5864	0.0623		
8G669151.D	CALTPH@40PPM	10/10/22 13:28	Aqueous	8G66915	6.5732	0.1383		
8G669152.D	TPH@20PPM	10/10/22 13:50	Aqueous	8G66915	6.5825	0.003		
8G669153.D	CALTPH@10PPM	10/10/22 14:13	Aqueous	8G66915	6.5752	0.1079		
8G669154.D	CALTPH@5PPM	10/10/22 14:36	Aqueous	8G66915	6.5823	0		
8G669155.D	CALTPH@500PPM	10/10/22 14:59	Aqueous	8G66915	6.5880	0.0866		
8G669156.D	CALTPH@20PPM	10/10/22 15:21	Aqueous	8G66915	6.5861	0.0577		
8G669157.D	ICVTPH@20PPM	10/10/22 15:44	Aqueous	8G66915	6.5818	0.0076		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G57486.D	INST BLK	10/26/22 11:44	Soil					
7G57487.D	TPH@20PPM	10/26/22 12:13	Soil					
7G57488.D	CALTPH@20PPM	10/26/22 15:01	Soil	7G57488.	8.3026	0		
7G57489.D	INST BLK	10/26/22 15:36	Soil	7G57488.	0.0000	200		
7G57490.D	SMB103420(MS)	10/26/22 16:29	Soil	7G57488.	8.3015	0.0132		
7G57491.D	SMB103421(MS)	10/26/22 16:58	Soil	7G57488.	8.2958	0.0819		
7G57492.D	AD33915-001	10/26/22 17:28	Soil	7G57488.	8.3166	0.1685		
7G57493.D	AD33995-001(MS)	10/26/22 17:57	Soil	7G57488.	8.2958	0.0819		
7G57494.D	AD33995-001(MSD)	10/26/22 18:26	Soil	7G57488.	8.2936	0.1085		
7G57495.D	AD33915-002	10/26/22 18:55	Soil	7G57488.	8.2947	0.0952		
7G57496.D	AD33915-003	10/26/22 19:24	Soil	7G57488.	8.2949	0.0928		
7G57497.D	AD33915-004	10/26/22 19:54	Soil	7G57488.	8.2939	0.1048		
7G57498.D	AD33915-005	10/26/22 20:23	Soil	7G57488.	8.2962	0.0771		
7G57499.D	AD33915-006	10/26/22 20:52	Soil	7G57488.	8.2939	0.1048		
7G57500.D	AD33995-001	10/26/22 21:21	Soil	7G57488.	8.2935	0.1097		
7G57501.D	AD34112-001	10/26/22 21:50	Soil	7G57488.	8.2956	0.0843		
7G57502.D	AD34112-001(MS)	10/26/22 22:19	Soil	7G57488.	8.2970	0.0675		
7G57503.D	AD34112-001(MSD)	10/26/22 22:48	Soil	7G57488.	8.2985	0.0494		
7G57504.D	AD34055-002	10/26/22 23:17	Soil	7G57488.	8.2949	0.0928		
7G57505.D	AD34055-004	10/26/22 23:47	Soil	7G57488.	8.2931	0.1145		
7G57506.D	TPH@20PPM	10/27/22 01:15	Soil	7G57488.	8.2918	0.1302		
7G57507.D	CALTPH@20PPM	10/27/22 01:44	Soil	7G57488.	8.2913	0.1362		
7G57508.D	INST BLK	10/27/22 03:12	Soil	7G57507.	0.0000	200		
7G57509.D	SMB103420	10/27/22 09:08	Soil	7G57507.	8.3001	0.1061		
7G57510.D	SMB103421	10/27/22 09:38	Soil	7G57507.	8.2915	0.0024		
7G57511.D	AD34055-006	10/27/22 10:07	Soil	7G57507.	8.2907	0.0072		
7G57512.D	AD33915-001(10X)	10/27/22 10:36	Soil	7G57507.	0.0000	200		
7G57513.D	AD33915-005(10X)	10/27/22 11:06	Soil	7G57507.	0.0000	200		
7G57514.D	AD33995-001(3X)	10/27/22 11:35	Soil	7G57507.	8.2859	0.0651		
7G57515.D	AD34112-001(2X)(MS)	10/27/22 12:05	Soil	7G57507.	8.2884	0.035		
7G57516.D	AD34112-001(2X)(MSD)	10/27/22 12:35	Soil	7G57507.	8.2906	0.0084		
7G57517.D	TPH@20PPM	10/27/22 13:03	Soil	7G57507.	8.2904	0.0109		
7G57518.D	CALTPH@20PPM	10/27/22 13:33	Soil	7G57507.	8.2894	0.0229		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G574526.D	INST BLK	10/28/22 09:38	Soil					
7G574527.D	CALTPH@20PPM	10/28/22 10:07	Soil	7G57452	8.2936	0		
7G574528.D	INST BLK	10/28/22 10:39	Soil	7G57452	0.0000	200		
7G574529.D	SMB103453	10/28/22 13:44	Soil	7G57452	8.2981	0.0542		
7G574530.D	AD34055-004(R)	10/28/22 14:14	Soil	7G57452	8.2944	0.0096		
7G574531.D	AD34055-006(R)	10/28/22 14:43	Soil	7G57452	8.2886	0.0603		
7G574532.D	AD34112-001(2X)(R)	10/28/22 15:13	Soil	7G57452	8.2882	0.0651		
7G574533.D	TPH@20PPM	10/28/22 16:16	Soil	7G57452	8.2926	0.0121		
7G574534.D	CALTPH@20PPM	10/28/22 16:50	Soil	7G57452	8.2918	0.0217		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669397.D	INST BLK(MECL2)	10/28/22 09:46	Aqueous					
8G669398.D	CALTPH@20PPM	10/28/22 10:08	Aqueous	8G66939	6.5667	0		
8G669399.D	INST BLK(MECL2)	10/28/22 10:39	Aqueous	8G66939	0.0000	200		
8G669400.D	SMB103453(MS)	10/28/22 13:45	Soil	8G66939	6.6614	1.4318		
8G669401.D	SMB103453	10/28/22 14:07	Soil	8G66939	6.5706	0.0594		
8G669402.D	AD34015-003(R)	10/28/22 14:29	Soil	8G66939	6.5728	0.0929		
8G669403.D	AD34015-009(R)	10/28/22 14:51	Soil	8G66939	6.5570	0.1478		
8G669404.D	AD34096-005(R)	10/28/22 15:14	Soil	8G66939	6.5668	0.0015		
8G669405.D	AD34096-013(R)	10/28/22 15:36	Soil	8G66939	6.5585	0.125		
8G669406.D	AD34096-015(R)	10/28/22 15:59	Soil	8G66939	6.5548	0.1814		
8G669407.D	AD34096-011(R)	10/28/22 16:21	Soil	8G66939	6.5484	0.2791		
8G669408.D	AD34026-001	10/28/22 16:43	Soil	8G66939	6.5648	0.0289		
8G669409.D	AD34026-002	10/28/22 17:06	Soil	8G66939	6.5480	0.2852		
8G669410.D	AD34026-002(MS)	10/28/22 17:28	Soil	8G66939	6.5533	0.2043		
8G669411.D	AD34026-002(MSD)	10/28/22 17:50	Soil	8G66939	6.5653	0.0213		
8G669412.D	AD34026-003	10/28/22 18:13	Soil	8G66939	6.5816	0.2266		
8G669413.D	AD34026-004	10/28/22 18:35	Soil	8G66939	6.5671	0.0061		
8G669414.D	AD34026-005	10/28/22 18:57	Soil	8G66939	6.5665	0.003		
8G669415.D	AD34026-006	10/28/22 19:19	Soil	8G66939	6.5601	0.1006		
8G669415A.	TEST	10/28/22 19:42	Soil	8G66939	0.0000	200		
8G669416.D	TPH@20PPM	10/28/22 20:04	Aqueous	8G66939	6.5640	0.0411		
8G669417.D	CALTPH@20PPM	10/28/22 20:26	Aqueous	8G66939	6.5521	0.2226		
8G669418.D	CALTPH@20PPM	10/28/22 20:49	Aqueous	8G66941	6.5523	0.003		
8G669419.D	TPH@20PPM	10/28/22 21:11	Aqueous	8G66941	6.5513	0.0122		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2102502 0059

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G57364.D	CAL TPH@5PPM	09/30/22 14:00	2	7G57365.D	CAL TPH@10PPM	09/30/22 14:29
3	7G57363.D	CAL TPH@20PPM	09/30/22 13:30	4	7G57366.D	CAL TPH@40PPM	09/30/22 14:58
5	7G57367.D	CAL TPH@100PPM	09/30/22 15:28	6	7G57368.D	CAL TPH@500PPM	09/30/22 15:57

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	1.1259	1.0968	1.1561	1.1401	1.1806	1.3210	----	----	1.17	2.20	1.00	1.00	6.8	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	1.2671	1.2303	1.2875	1.2687	1.3115	1.4564	----	----	1.30	2.86	1.00	1.00	6.1	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	1.3811	1.3480	1.4201	1.4021	1.4619	1.5971	----	----	1.44	3.55	0.999	1.00	6.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	1.4391	1.4555	1.5205	1.5130	1.5724	1.6874	----	----	1.53	4.84	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	1.4933	1.4890	1.5405	1.5345	1.5844	1.6705	----	----	1.55	5.97	1.00	1.00	4.4	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	1.7170	1.7211	1.7588	1.7765	1.8350	1.9151	----	----	1.79	6.99	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	1.6831	1.7020	1.7497	1.7940	2.0573	----	----	----	1.80	7.45	0.998	1.00	8.4	5.00	10.00	20.00	40.00	100.0			
Pristane	1	0	Avg	2.2057	2.2437	2.3440	2.2869	2.0698	1.4398	----	----	2.10	7.47	0.993	1.00	16	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	1.7286	1.7461	1.7985	1.8073	1.8902	2.2547	----	----	1.87	7.90	0.999	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	1.5782	1.6312	1.6558	1.7072	1.7338	1.4892	----	----	1.63	7.93	0.999	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	1.8227	1.8440	1.8965	1.9281	2.0112	2.1147	----	----	1.94	8.72	1.00	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	1.7345	1.7620	1.8116	1.8305	1.9051	2.0157	----	----	1.84	9.47	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	1.7933	1.8178	1.8720	1.8902	1.9555	2.0634	----	----	1.90	10.17	1.00	1.00	5.2	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	1.7681	1.7874	1.8460	1.8596	1.9120	2.0270	----	----	1.87	10.83	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	1.8373	1.8462	1.9030	1.9250	1.9705	2.0769	----	----	1.93	11.47	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	1.9175	1.9241	1.9835	2.0097	2.0483	2.1286	----	----	2.00	12.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	1.9109	1.9016	1.9597	1.9864	2.0033	2.0286	----	----	1.97	12.69	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	1.9547	1.9529	2.0138	2.0442	2.0679	2.0208	----	----	2.01	13.28	1.00	1.00	2.3	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	1.8980	1.9147	1.9751	1.9956	1.9879	1.8383	----	----	1.93	13.91	0.999	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	1.7903	1.8501	1.8967	1.8872	1.7994	----	----	----	1.84	15.75	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0			
C44	1	0	Avg	1.6345	1.7031	1.7265	1.6662	1.1190	----	----	----	1.57	19.03	0.959	1.00	16	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	1.1218	1.0981	1.1474	1.1291	1.1636	1.2501	----	----	1.15	2.53	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	2.1046	2.1021	2.1482	2.1329	2.1819	2.2857	----	----	2.16	8.34	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	1.7063	1.7226	1.7782	1.7888	1.8430	1.9488	----	----	1.80	2.20	1.00	1.00	4.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	1.6991	1.7127	1.7674	1.7740	1.7846	1.7514	----	----	1.75	2.20	1.00	1.00	2.0	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	1.7295	1.7399	1.7965	1.8089	1.8543	1.9337	----	----	1.81	2.77	1.00	1.00	4.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	1.3413	1.3239	1.3849	1.3717	1.4221	1.5465	----	----	1.40	2.06	1.00	1.00	5.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	1.3413	1.3239	1.3849	1.3717	1.4221	1.5465	----	----	1.40	2.21	1.00	1.00	5.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 6.03 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

2102502 0060

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669154.D	CALTPH@5PPM	10/10/22 14:36	2	8G669153.D	CALTPH@10PPM	10/10/22 14:13
3	8G669156.D	CALTPH@20PPM	10/10/22 15:21	4	8G669151.D	CALTPH@40PPM	10/10/22 13:28
5	8G669150.D	CALTPH@100PPM	10/10/22 13:05	6	8G669155.D	CALTPH@500PPM	10/10/22 14:59

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2114	0.2042	0.2260	0.2271	0.2282	0.2266	----	----	0.221	1.98	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.2240	0.2129	0.2394	0.2423	0.2436	0.2399	----	----	0.234	2.55	1.00	1.00	5.3	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2261	0.2159	0.2472	0.2495	0.2517	0.2463	----	----	0.240	3.09	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2391	0.2205	0.2650	0.2714	0.2715	0.2636	----	----	0.255	4.03	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.2460	0.2300	0.2752	0.2814	0.2820	0.2707	----	----	0.264	4.84	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2627	0.2384	0.2852	0.2907	0.2911	0.2774	----	----	0.274	5.55	0.999	1.00	7.5	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2852	0.2543	0.2933	0.3490	0.3280	0.3007	----	----	0.302	5.89	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2363	0.2172	0.2883	0.2886	0.2658	0.2437	----	----	0.257	5.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2799	0.2430	0.3031	0.3121	0.3129	0.2972	----	----	0.291	6.22	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2591	0.2170	0.2699	0.2743	0.2745	0.2580	----	----	0.259	6.25	0.999	1.00	8.4	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2897	0.2465	0.3103	0.3195	0.3201	0.3026	----	----	0.298	6.87	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2961	0.2511	0.3118	0.3243	0.3254	0.3073	----	----	0.303	7.50	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3020	0.2498	0.3205	0.3337	0.3333	0.3131	----	----	0.309	8.12	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3194	0.2453	0.3196	0.3346	0.3352	0.3140	----	----	0.311	8.72	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3124	0.2530	0.3236	0.3386	0.3384	0.3160	----	----	0.314	9.32	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.3229	0.2510	0.3281	0.3436	0.3421	0.3179	----	----	0.318	9.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3418	0.2598	0.3308	0.3523	0.3495	0.3206	----	----	0.326	10.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3248	0.2482	0.3267	0.3456	0.3402	0.3083	----	----	0.316	11.03	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3222	0.2441	0.3570	0.3373	0.3350	0.2980	----	----	0.316	11.58	0.996	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2742	0.2282	0.3477	0.3229	0.3143	0.2795	----	----	0.295	12.85	0.999	1.00	14	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1807	0.1729	0.1967	0.2011	0.2025	0.1940	----	----	0.191	2.28	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.3260	0.2729	0.3371	0.3440	0.3420	0.3255	----	----	0.325	6.59	1.00	1.00	8.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2734	0.2371	0.2933	0.3052	0.3023	0.2854	----	----	0.283	3.09	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2788	0.2365	0.2984	0.3069	0.3041	0.2851	----	----	0.285	1.98	1.00	1.00	9.2	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2828	0.2388	0.2997	0.3105	0.3078	0.2886	----	----	0.288	2.55	1.00	1.00	9.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.23 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G574527.D			7G574534.D			7G57488.D			7G57507.D			7G57518.D				
Method:				8015			8015			8015			8015			8015				
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM				
Calibration Date/Time				10/28/22 10:07			10/28/22 16:50			10/26/22 15:01			10/27/22 01:44			10/27/22 13:33				
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff		
C8	20	1	0	23.19	20	16.0	20.55	20	2.7	23.77	20	18.9	24.03	20	20.2	20.99	20	4.9		
C9	20	1	0	22.89	20	14.5	20.22	20	1.1	23.34	20	16.7	23.66	20	18.3	20.87	20	4.4		
C10	20	1	0	22.61	20	13.1	19.91	20	0.5	23.01	20	15.1	23.39	20	17.0	20.76	20	3.8		
C12	20	1	0	21.81	20	9.0	19.34	20	3.3	22.38	20	11.9	22.71	20	13.6	19.88	20	0.6		
C14	20	1	0	21.91	20	9.5	19.28	20	3.6	22.32	20	11.6	22.57	20	12.9	20.24	20	1.2		
C16	20	1	0	21.96	20	9.8	19.26	20	3.7	22.35	20	11.8	22.56	20	12.8	20.13	20	0.6		
C17	20	1	0	24	20	20.0	18.54	20	7.3	25.6	20	28.0*	22.92	20	14.6	20.31	20	1.5		
Pristane	20	1	0	24.16	20	20.8*	21.03	20	5.2	23.92	20	19.6	24.8	20	24.0*	22.47	20	12.4		
C18	20	1	0	22.07	20	10.4	19.11	20	4.4	22.54	20	12.7	22.65	20	13.3	20.09	20	0.5		
Phytane	20	1	0	22.35	20	11.8	19.43	20	2.8	22.8	20	14.0	22.9	20	14.5	20.44	20	2.2		
C20	20	1	0	22.41	20	12.1	19.52	20	2.4	22.9	20	14.5	23	20	15.0	20.4	20	2.0		
C22	20	1	0	22.58	20	12.9	19.66	20	1.7	23.01	20	15.1	23.14	20	15.7	20.46	20	2.3		
C24	20	1	0	22.5	20	12.5	19.57	20	2.2	23.07	20	15.4	23.1	20	15.5	20.44	20	2.2		
C26	20	1	0	22.43	20	12.2	19.51	20	2.4	23.03	20	15.2	23.05	20	15.3	20.4	20	2.0		
C28	20	1	0	22.28	20	11.4	19.33	20	3.4	22.83	20	14.2	22.88	20	14.4	20.2	20	1.0		
C30	20	1	0	21.88	20	9.4	18.95	20	5.2	22.67	20	13.4	22.46	20	12.3	19.9	20	0.5		
C32	20	1	0	21.4	20	7.0	18.37	20	8.1	22.52	20	12.6	22.05	20	10.3	19.43	20	2.8		
C34	20	1	0	20.18	20	0.9	17.12	20	14.4	22.4	20	12.0	20.61	20	3.1	18.31	20	8.5		
C36	20	1	0	18.34	20	8.3	14.77	20	26.2*	22.87	20	14.4	18.86	20	5.7	16.31	20	18.5		
C40	20	1	0	9.72	20	51.4*	7.05	20	64.8*	22.33	20	11.7	9.59	20	52.1*	8.41	20	58.0*		
C44	20	1	0	4.07	20	79.7*	3.08	20	84.6*	21.31	20	6.5	3.88	20	80.6*	3.84	20	80.8*		
Chlorobenzene	20	1	0	22.83	20	14.2	20.08	20	0.4	23.21	20	16.1	23.57	20	17.9	20.75	20	3.8		
O-Terphenyl	20	1	0	22.11	20	10.6	19.33	20	3.4	22.25	20	11.3	22.18	20	10.9	20.21	20	1.0		
Average Difference	20	1	0			16.4			11.0			14.4			18.7			9.4		

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8015D

Data File:	8G669398.D	8G669417.D
Method:	8015	8015
Calibration Name:	CALTPH@20PPM	CALTPH@20PPM
Calibration Date/Time	10/28/22 10:08	10/28/22 20:26

Compound	Limit	Col	Mr	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff
C8	20	1	0	23.49	20	17.5	21.51	20	7.6									
C9	20	1	0	22.76	20	13.8	21.02	20	5.1									
C10	20	1	0	22.38	20	11.9	20.66	20	3.3									
C12	20	1	0	21.51	20	7.6	20.68	20	3.4									
C14	20	1	0	21.32	20	6.6	20.04	20	0.2									
C16	20	1	0	21.43	20	7.2	20.07	20	0.3									
C17	20	1	0	19.97	20	0.2	21.64	20	8.2									
Pristane	20	1	0	17.49	20	12.6	18.85	20	5.7									
C18	20	1	0	20.77	20	3.9	19.5	20	2.5									
Phytane	20	1	0	20.6	20	3.0	19.84	20	0.8									
C20	20	1	0	20.41	20	2.0	19.45	20	2.7									
C22	20	1	0	20.25	20	1.3	19.16	20	4.2									
C24	20	1	0	20.02	20	0.1	19.06	20	4.7									
C26	20	1	0	19.8	20	1.0	18.7	20	6.5									
C28	20	1	0	19.42	20	2.9	18.53	20	7.3									
C30	20	1	0	19.57	20	2.2	18.26	20	8.7									
C32	20	1	0	19.68	20	1.6	18.11	20	9.4									
C34	20	1	0	19.76	20	1.2	18.11	20	9.4									
C36	20	1	0	19.51	20	2.4	18	20	10.0									
C40	20	1	0	19.54	20	2.3	18.91	20	5.5									
Chlorobenzene	20	1	0	22.59	20	13.0	20.98	20	4.9									
O-Terphenyl	20	1	0	20.45	20	2.3	19.78	20	1.1									
Average Difference	20	1	0			5.3			5.1									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
Chlorobenzene	1	0										
C44	1	0										
O-Terphenyl	1	0	8.35	(8.31 - 8.39)	6.58	(6.54 - 6.62)	8.29	(8.25 - 8.33)	8.30	(8.26 - 8.34)	8.29	(8.25 - 8.33)
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
Chlorobenzene	1	0										
C44	1	0										
O-Terphenyl	1	0	6.57	(6.53 - 6.61)								
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34112-001(2X)(R)
Client Id: SB-23SS(14-16)
Data File: 7G574532.D
Analysis Date: 10/28/22 15:13
Date Rec/Extracted: 10/25/22-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 2
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**140**	**1200**				

Worksheet #: 664085

Total Target Concentration 1200

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-28-22\
Data File : 7G574532.D
Signal(s) : FID2B.CH
Acq On : 28 Oct 2022 15:13
Operator : ABM/AH/JR/RR
Sample : AD34112-001(2X)(R)
Misc : S,TPH:2
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 15:39:13 2022
Quant Method : G:\GCDATA\2022\GC_7\MethodQt\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.522	97373	8.455		
23)	O-Terphenyl	8.288	218289	10.109		m
24)d	Diesel Range Organics(T	5.222f	45842811	2549.631		m
25)t	Total Petroleum Hydroca	5.222	51524750	2947.209		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

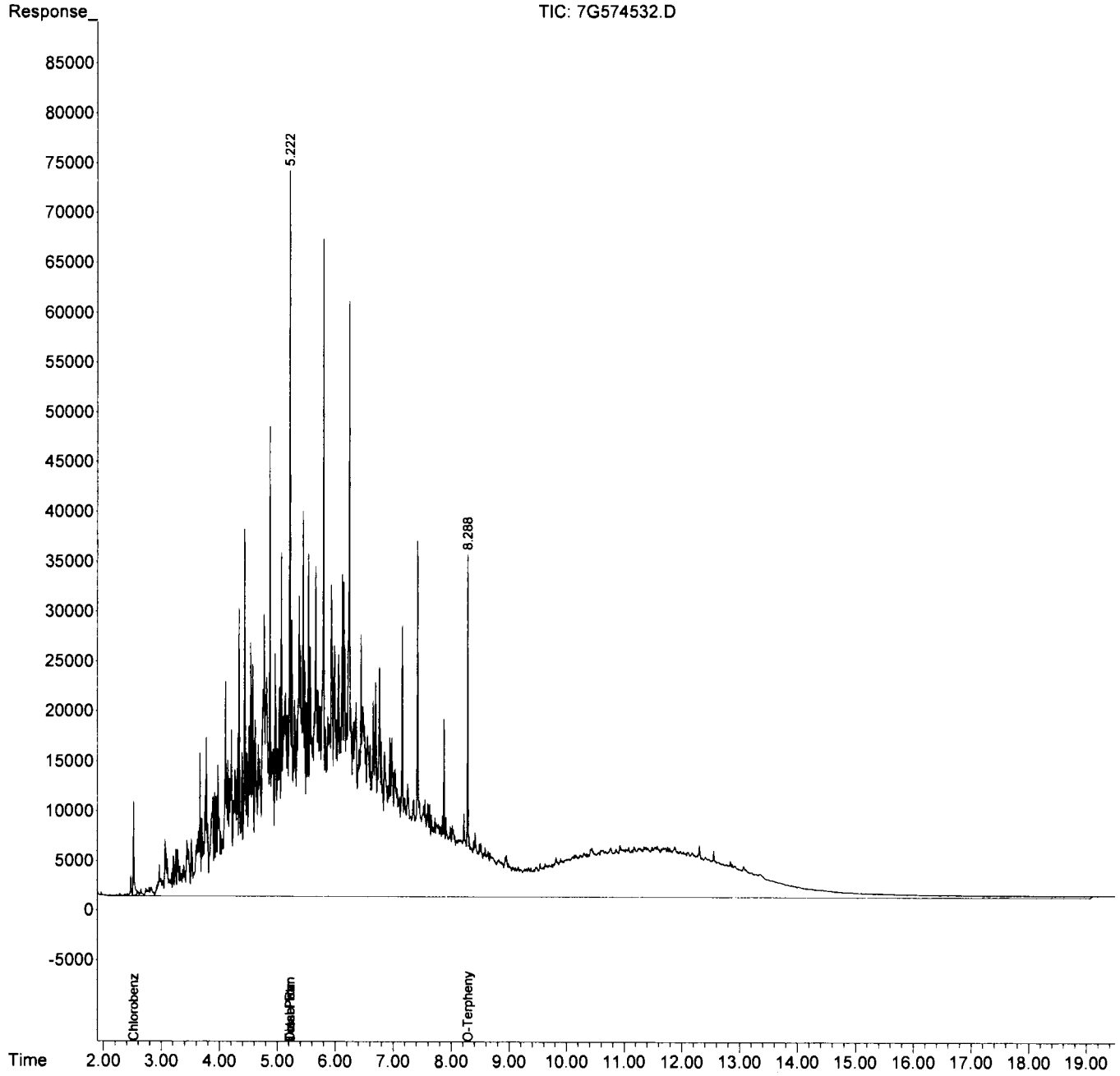
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-28-22\
Data File : 7G574532.D
Signal(s) : FID2B.CH
Acq On : 28 Oct 2022 15:13
Operator : ABM/AH/JR/RR
Sample : AD34112-001(2X)(R)
Misc : S,TPH:2
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 28 15:39:13 2022
Quant Method : G:\GCDATA\2022\GC_7\MethodQt\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103421
Client Id:
Data File: 7G57510.D
Analysis Date: 10/27/22 09:38
Date Rec/Extracted: NA-10/26/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 664085

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57510.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 9:38
Operator : ABM/AH/JR/RR
Sample : SMB103421
Misc : S,TPH
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:41:09 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.524	136453	11.848		
23)	O-Terphenyl	8.292	344050	15.934		
24)d	Diesel Range Organics(T	8.291f	724085	40.271		m
25)t	Total Petroleum Hydroca	8.291f	1736964	99.354		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

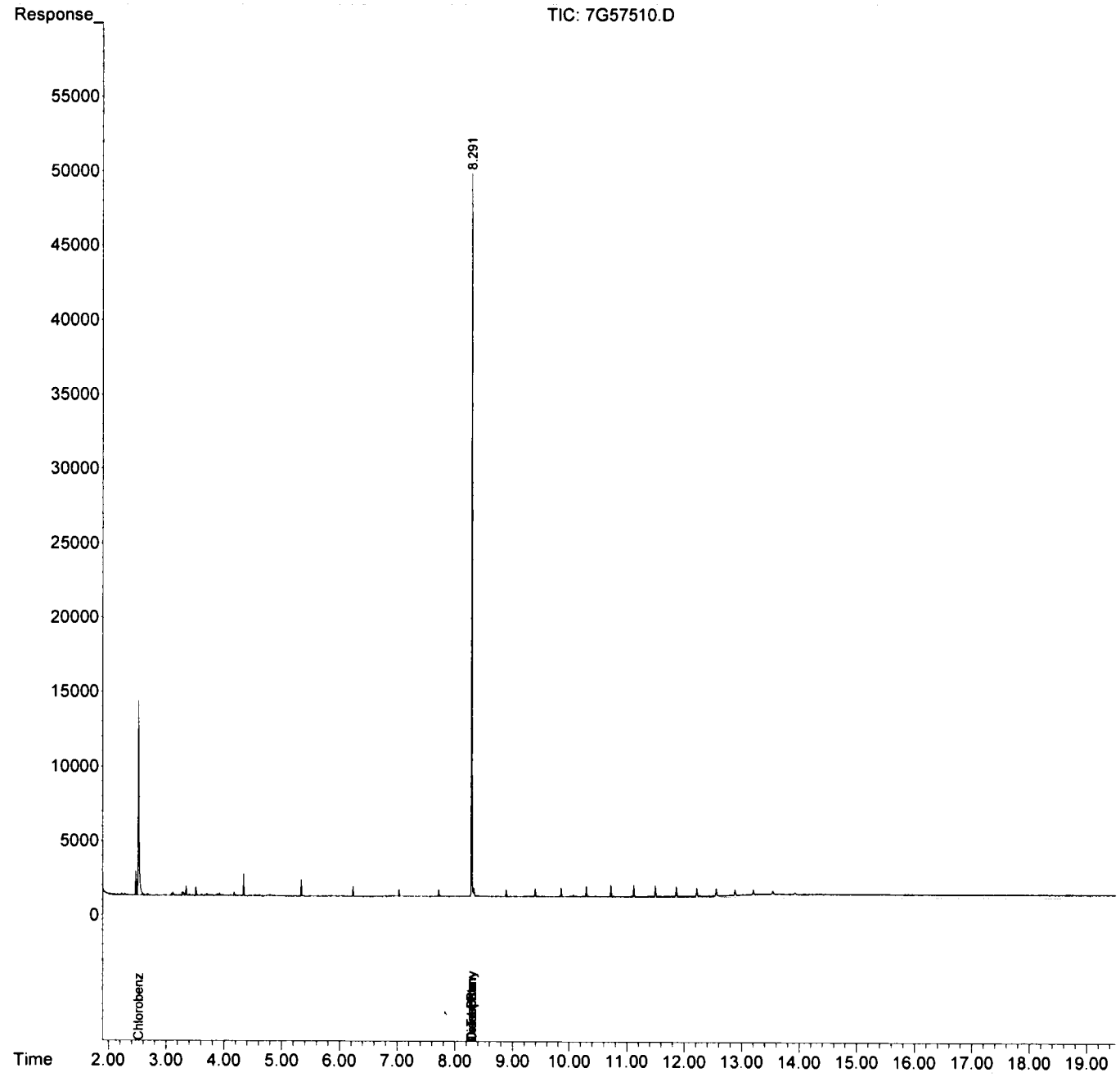
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_7\Data\10-26-22\
Data File : 7G57510.D
Signal(s) : FID2B.CH
Acq On : 27 Oct 2022 9:38
Operator : ABM/AH/JR/RR
Sample : SMB103421
Misc : S,TPH
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 27 11:41:09 2022
Quant Method : G:\GCDATA\2022\GC_7\METHODQT\7G_T(C8-C44)0930.M
Quant Title : @GC_7,mg,8015
QLast Update : Fri Sep 30 16:34:26 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
7G574529.D	SMB103453	S	10/28/22 13:44	1		66	88				
7G57510.D	SMB103421	S	10/27/22 09:38	1		59	80				
7G57515.D	AD34112-001(2X)(MS)	S	10/27/22 12:05	2		68	84				
7G57516.D	AD34112-001(2X)(MSD)	S	10/27/22 12:35	2		92	118				
7G574532.D	AD34112-001(2X)(R)	S	10/28/22 15:13	2		84	101				
7G57491.D	SMB103421(MS)	S	10/26/22 16:58	1		64	86				
8G669400.D	SMB103453(MS)	S	10/28/22 13:45	1		77	80				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103421

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57491.D	SMB103421(MS)	10/26/2022 4:58:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	7G57489.D	INST BLK	10/26/2022 3:36:00 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2439.84	0	3000	81	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103453

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669400.D	SMB103453(MS)	10/28/2022 1:45:17 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669399.D	INST BLK(MECL2)	10/28/2022 10:39:47 A

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2190.92	0	3000	73	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103421

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57515.D	AD34112-001(2X)(MS)	10/27/2022 12:05:00 P
Non Spike(If applicable):	7G57501.D	AD34112-001	10/26/2022 9:50:00 PM
Inst Blank(If applicable):	7G57508.D	INST BLK	10/27/2022 3:12:00 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	6158.44	3954.47	3000	73	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57516.D	AD34112-001(2X)(MSD)	10/27/2022 12:35:00 P
Non Spike(If applicable):	7G57501.D	AD34112-001	10/26/2022 9:50:00 PM
Inst Blank(If applicable):	7G57508.D	INST BLK	10/27/2022 3:12:00 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	8595.761	3954.47	3000	155*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103421

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7G57516.D	AD34112-001(2X)(MSD)	10/27/2022 12:35:00 P
Duplicate(If applicable):	7G57515.D	AD34112-001(2X)(MS)	10/27/2022 12:05:00 P
Inst Blank(If applicable):	7G57508.D	INST BLK	10/27/2022 3:12:00 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	8595.761	6158.44	33	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103421
Blank Data File: 7G57510.D
Matrix: Soil

Blank Analysis Date: 10/27/22 09:38
Blank Extraction Date: 10/26/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34112-001(2X)(	7G57516.D	10/27/22 12:35
AD34112-001(2X)(	7G57515.D	10/27/22 12:05
SMB103421(MS)	7G57491.D	10/26/22 16:58

FORM 4
Blank Summary

Blank Number: SMB103453
Blank Data File: 7G574529.D
Matrix: Soil

Blank Analysis Date: 10/28/22 13:44
Blank Extraction Date: 10/28/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34112-001(2X)(	7G574532.D	10/28/22 15:13
SMB103453(MS)	8G669400.D	10/28/22 13:45

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G57362.D	TEST	09/30/22 12:59	Soil					
7G57363.D	CAL TPH@20PPM	09/30/22 13:30	Soil	7G57364.	8.3360	0.0636		
7G57364.D	CAL TPH@5PPM	09/30/22 14:00	Soil	7G57364.	8.3307	0		
7G57365.D	CAL TPH@10PPM	09/30/22 14:29	Soil	7G57364.	8.3305	0.0024		
7G57366.D	CAL TPH@40PPM	09/30/22 14:58	Soil	7G57364.	8.3371	0.0768		
7G57367.D	CAL TPH@100PPM	09/30/22 15:28	Soil	7G57364.	8.3495	0.2254		
7G57368.D	CAL TPH@500PPM	09/30/22 15:57	Soil	7G57364.	8.3866	0.6688		
7G57369.D	TPH@20PPM	09/30/22 16:26	Soil	7G57364.	8.3323	0.0192		
7G57370.D	ICVTPH@20PPM	09/30/22 16:56	Soil	7G57364.	8.3310	0.0036		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669147.D	INST BLK(MECL2)	10/10/22 08:56	Aqueous					
8G669148.D	TPH@20PPM	10/10/22 11:55	Aqueous					
8G669149.D	TPH@500PPM	10/10/22 12:39	Aqueous					
8G669150.D	CALTPH@100PPM	10/10/22 13:05	Aqueous	8G66915	6.5864	0.0623		
8G669151.D	CALTPH@40PPM	10/10/22 13:28	Aqueous	8G66915	6.5732	0.1383		
8G669152.D	TPH@20PPM	10/10/22 13:50	Aqueous	8G66915	6.5825	0.003		
8G669153.D	CALTPH@10PPM	10/10/22 14:13	Aqueous	8G66915	6.5752	0.1079		
8G669154.D	CALTPH@5PPM	10/10/22 14:36	Aqueous	8G66915	6.5823	0		
8G669155.D	CALTPH@500PPM	10/10/22 14:59	Aqueous	8G66915	6.5880	0.0866		
8G669156.D	CALTPH@20PPM	10/10/22 15:21	Aqueous	8G66915	6.5861	0.0577		
8G669157.D	ICVTPH@20PPM	10/10/22 15:44	Aqueous	8G66915	6.5818	0.0076		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G57486.D	INST BLK	10/26/22 11:44	Soil					
7G57487.D	TPH@20PPM	10/26/22 12:13	Soil					
7G57488.D	CALTPH@20PPM	10/26/22 15:01	Soil	7G57488.	8.3026	0		
7G57489.D	INST BLK	10/26/22 15:36	Soil	7G57488.	0.0000	200		
7G57490.D	SMB103420(MS)	10/26/22 16:29	Soil	7G57488.	8.3015	0.0132		
7G57491.D	SMB103421(MS)	10/26/22 16:58	Soil	7G57488.	8.2958	0.0819		
7G57492.D	AD33915-001	10/26/22 17:28	Soil	7G57488.	8.3166	0.1685		
7G57493.D	AD33995-001(MS)	10/26/22 17:57	Soil	7G57488.	8.2958	0.0819		
7G57494.D	AD33995-001(MSD)	10/26/22 18:26	Soil	7G57488.	8.2936	0.1085		
7G57495.D	AD33915-002	10/26/22 18:55	Soil	7G57488.	8.2947	0.0952		
7G57496.D	AD33915-003	10/26/22 19:24	Soil	7G57488.	8.2949	0.0928		
7G57497.D	AD33915-004	10/26/22 19:54	Soil	7G57488.	8.2939	0.1048		
7G57498.D	AD33915-005	10/26/22 20:23	Soil	7G57488.	8.2962	0.0771		
7G57499.D	AD33915-006	10/26/22 20:52	Soil	7G57488.	8.2939	0.1048		
7G57500.D	AD33995-001	10/26/22 21:21	Soil	7G57488.	8.2935	0.1097		
7G57501.D	AD34112-001	10/26/22 21:50	Soil	7G57488.	8.2956	0.0843		
7G57502.D	AD34112-001(MS)	10/26/22 22:19	Soil	7G57488.	8.2970	0.0675		
7G57503.D	AD34112-001(MSD)	10/26/22 22:48	Soil	7G57488.	8.2985	0.0494		
7G57504.D	AD34055-002	10/26/22 23:17	Soil	7G57488.	8.2949	0.0928		
7G57505.D	AD34055-004	10/26/22 23:47	Soil	7G57488.	8.2931	0.1145		
7G57506.D	TPH@20PPM	10/27/22 01:15	Soil	7G57488.	8.2918	0.1302		
7G57507.D	CALTPH@20PPM	10/27/22 01:44	Soil	7G57488.	8.2913	0.1362		
7G57508.D	INST BLK	10/27/22 03:12	Soil	7G57507.	0.0000	200		
7G57509.D	SMB103420	10/27/22 09:08	Soil	7G57507.	8.3001	0.1061		
7G57510.D	SMB103421	10/27/22 09:38	Soil	7G57507.	8.2915	0.0024		
7G57511.D	AD34055-006	10/27/22 10:07	Soil	7G57507.	8.2907	0.0072		
7G57512.D	AD33915-001(10X)	10/27/22 10:36	Soil	7G57507.	0.0000	200		
7G57513.D	AD33915-005(10X)	10/27/22 11:06	Soil	7G57507.	0.0000	200		
7G57514.D	AD33995-001(3X)	10/27/22 11:35	Soil	7G57507.	8.2859	0.0651		
7G57515.D	AD34112-001(2X)(MS)	10/27/22 12:05	Soil	7G57507.	8.2884	0.035		
7G57516.D	AD34112-001(2X)(MSD)	10/27/22 12:35	Soil	7G57507.	8.2906	0.0084		
7G57517.D	TPH@20PPM	10/27/22 13:03	Soil	7G57507.	8.2904	0.0109		
7G57518.D	CALTPH@20PPM	10/27/22 13:33	Soil	7G57507.	8.2894	0.0229		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_7 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
7G574526.D	INST BLK	10/28/22 09:38	Soil					
7G574527.D	CALTPH@20PPM	10/28/22 10:07	Soil	7G57452	8.2936	0		
7G574528.D	INST BLK	10/28/22 10:39	Soil	7G57452	0.0000	200		
7G574529.D	SMB103453	10/28/22 13:44	Soil	7G57452	8.2981	0.0542		
7G574530.D	AD34055-004(R)	10/28/22 14:14	Soil	7G57452	8.2944	0.0096		
7G574531.D	AD34055-006(R)	10/28/22 14:43	Soil	7G57452	8.2886	0.0603		
7G574532.D	AD34112-001(2X)(R)	10/28/22 15:13	Soil	7G57452	8.2882	0.0651		
7G574533.D	TPH@20PPM	10/28/22 16:16	Soil	7G57452	8.2926	0.0121		
7G574534.D	CALTPH@20PPM	10/28/22 16:50	Soil	7G57452	8.2918	0.0217		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669397.D	INST BLK(MECL2)	10/28/22 09:46	Aqueous					
8G669398.D	CALTPH@20PPM	10/28/22 10:08	Aqueous	8G66939	6.5667	0		
8G669399.D	INST BLK(MECL2)	10/28/22 10:39	Aqueous	8G66939	0.0000	200		
8G669400.D	SMB103453(MS)	10/28/22 13:45	Soil	8G66939	6.6614	1.4318		
8G669401.D	SMB103453	10/28/22 14:07	Soil	8G66939	6.5706	0.0594		
8G669402.D	AD34015-003(R)	10/28/22 14:29	Soil	8G66939	6.5728	0.0929		
8G669403.D	AD34015-009(R)	10/28/22 14:51	Soil	8G66939	6.5570	0.1478		
8G669404.D	AD34096-005(R)	10/28/22 15:14	Soil	8G66939	6.5668	0.0015		
8G669405.D	AD34096-013(R)	10/28/22 15:36	Soil	8G66939	6.5585	0.125		
8G669406.D	AD34096-015(R)	10/28/22 15:59	Soil	8G66939	6.5548	0.1814		
8G669407.D	AD34096-011(R)	10/28/22 16:21	Soil	8G66939	6.5484	0.2791		
8G669408.D	AD34026-001	10/28/22 16:43	Soil	8G66939	6.5648	0.0289		
8G669409.D	AD34026-002	10/28/22 17:06	Soil	8G66939	6.5480	0.2852		
8G669410.D	AD34026-002(MS)	10/28/22 17:28	Soil	8G66939	6.5533	0.2043		
8G669411.D	AD34026-002(MSD)	10/28/22 17:50	Soil	8G66939	6.5653	0.0213		
8G669412.D	AD34026-003	10/28/22 18:13	Soil	8G66939	6.5816	0.2266		
8G669413.D	AD34026-004	10/28/22 18:35	Soil	8G66939	6.5671	0.0061		
8G669414.D	AD34026-005	10/28/22 18:57	Soil	8G66939	6.5665	0.003		
8G669415.D	AD34026-006	10/28/22 19:19	Soil	8G66939	6.5601	0.1006		
8G669415A.	TEST	10/28/22 19:42	Soil	8G66939	0.0000	200		
8G669416.D	TPH@20PPM	10/28/22 20:04	Aqueous	8G66939	6.5640	0.0411		
8G669417.D	CALTPH@20PPM	10/28/22 20:26	Aqueous	8G66939	6.5521	0.2226		
8G669418.D	CALTPH@20PPM	10/28/22 20:49	Aqueous	8G66941	6.5523	0.003		
8G669419.D	TPH@20PPM	10/28/22 21:11	Aqueous	8G66941	6.5513	0.0122		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

2102502 0084

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7G57364.D	CAL TPH@5PPM	09/30/22 14:00	2	7G57365.D	CAL TPH@10PPM	09/30/22 14:29
3	7G57363.D	CAL TPH@20PPM	09/30/22 13:30	4	7G57366.D	CAL TPH@40PPM	09/30/22 14:58
5	7G57367.D	CAL TPH@100PPM	09/30/22 15:28	6	7G57368.D	CAL TPH@500PPM	09/30/22 15:57

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	1.1259	1.0968	1.1561	1.1401	1.1806	1.3210	----	----	1.17	2.20	1.00	1.00	6.8	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	1.2671	1.2303	1.2875	1.2687	1.3115	1.4564	----	----	1.30	2.86	1.00	1.00	6.1	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	1.3811	1.3480	1.4201	1.4021	1.4619	1.5971	----	----	1.44	3.55	0.999	1.00	6.1	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	1.4391	1.4555	1.5205	1.5130	1.5724	1.6874	----	----	1.53	4.84	1.00	1.00	5.9	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	1.4933	1.4890	1.5405	1.5345	1.5844	1.6705	----	----	1.55	5.97	1.00	1.00	4.4	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	1.7170	1.7211	1.7588	1.7765	1.8350	1.9151	----	----	1.79	6.99	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	1.6831	1.7020	1.7497	1.7940	2.0573	----	----	----	1.80	7.45	0.998	1.00	8.4	5.00	10.00	20.00	40.00	100.0			
Pristane	1	0	Avg	2.2057	2.2437	2.3440	2.2869	2.0698	1.4398	----	----	2.10	7.47	0.993	1.00	16	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	1.7286	1.7461	1.7985	1.8073	1.8902	2.2547	----	----	1.87	7.90	0.999	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	1.5782	1.6312	1.6558	1.7072	1.7338	1.4892	----	----	1.63	7.93	0.999	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	1.8227	1.8440	1.8965	1.9281	2.0112	2.1147	----	----	1.94	8.72	1.00	1.00	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	1.7345	1.7620	1.8116	1.8305	1.9051	2.0157	----	----	1.84	9.47	1.00	1.00	5.6	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	1.7933	1.8178	1.8720	1.8902	1.9555	2.0634	----	----	1.90	10.17	1.00	1.00	5.2	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	1.7681	1.7874	1.8460	1.8596	1.9120	2.0270	----	----	1.87	10.83	1.00	1.00	5.0	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	1.8373	1.8462	1.9030	1.9250	1.9705	2.0769	----	----	1.93	11.47	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	1.9175	1.9241	1.9835	2.0097	2.0483	2.1286	----	----	2.00	12.08	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	1.9109	1.9016	1.9597	1.9864	2.0033	2.0286	----	----	1.97	12.69	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	1.9547	1.9529	2.0138	2.0442	2.0679	2.0208	----	----	2.01	13.28	1.00	1.00	2.3	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	1.8980	1.9147	1.9751	1.9956	1.9879	1.8383	----	----	1.93	13.91	0.999	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	1.7903	1.8501	1.8967	1.8872	1.7994	----	----	----	1.84	15.75	1.00	1.00	2.6	5.00	10.00	20.00	40.00	100.0			
C44	1	0	Avg	1.6345	1.7031	1.7265	1.6662	1.1190	----	----	----	1.57	19.03	0.959	1.00	16	5.00	10.00	20.00	40.00	100.0			
Chlorobenzene	1	0	Avg	1.1218	1.0981	1.1474	1.1291	1.1636	1.2501	----	----	1.15	2.53	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	2.1046	2.1021	2.1482	2.1329	2.1819	2.2857	----	----	2.16	8.34	1.00	1.00	3.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	1.7063	1.7226	1.7782	1.7888	1.8430	1.9488	----	----	1.80	2.20	1.00	1.00	4.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	1.6991	1.7127	1.7674	1.7740	1.7846	1.7514	----	----	1.75	2.20	1.00	1.00	2.0	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	1.7295	1.7399	1.7965	1.8089	1.8543	1.9337	----	----	1.81	2.77	1.00	1.00	4.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	1.3413	1.3239	1.3849	1.3717	1.4221	1.5465	----	----	1.40	2.06	1.00	1.00	5.7	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	1.3413	1.3239	1.3849	1.3717	1.4221	1.5465	----	----	1.40	2.21	1.00	1.00	5.7	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 6.03 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

2102502 0085

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669154.D	CALTPH@5PPM	10/10/22 14:36	2	8G669153.D	CALTPH@10PPM	10/10/22 14:13
3	8G669156.D	CALTPH@20PPM	10/10/22 15:21	4	8G669151.D	CALTPH@40PPM	10/10/22 13:28
5	8G669150.D	CALTPH@100PPM	10/10/22 13:05	6	8G669155.D	CALTPH@500PPM	10/10/22 14:59

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2114	0.2042	0.2260	0.2271	0.2282	0.2266	----	----	0.221	1.98	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.2240	0.2129	0.2394	0.2423	0.2436	0.2399	----	----	0.234	2.55	1.00	1.00	5.3	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2261	0.2159	0.2472	0.2495	0.2517	0.2463	----	----	0.240	3.09	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2391	0.2205	0.2650	0.2714	0.2715	0.2636	----	----	0.255	4.03	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.2460	0.2300	0.2752	0.2814	0.2820	0.2707	----	----	0.264	4.84	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2627	0.2384	0.2852	0.2907	0.2911	0.2774	----	----	0.274	5.55	0.999	1.00	7.5	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2852	0.2543	0.2933	0.3490	0.3280	0.3007	----	----	0.302	5.89	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2363	0.2172	0.2883	0.2886	0.2658	0.2437	----	----	0.257	5.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2799	0.2430	0.3031	0.3121	0.3129	0.2972	----	----	0.291	6.22	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2591	0.2170	0.2699	0.2743	0.2745	0.2580	----	----	0.259	6.25	0.999	1.00	8.4	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2897	0.2465	0.3103	0.3195	0.3201	0.3026	----	----	0.298	6.87	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2961	0.2511	0.3118	0.3243	0.3254	0.3073	----	----	0.303	7.50	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3020	0.2498	0.3205	0.3337	0.3333	0.3131	----	----	0.309	8.12	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3194	0.2453	0.3196	0.3346	0.3352	0.3140	----	----	0.311	8.72	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3124	0.2530	0.3236	0.3386	0.3384	0.3160	----	----	0.314	9.32	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.3229	0.2510	0.3281	0.3436	0.3421	0.3179	----	----	0.318	9.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3418	0.2598	0.3308	0.3523	0.3495	0.3206	----	----	0.326	10.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3248	0.2482	0.3267	0.3456	0.3402	0.3083	----	----	0.316	11.03	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3222	0.2441	0.3570	0.3373	0.3350	0.2980	----	----	0.316	11.58	0.996	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2742	0.2282	0.3477	0.3229	0.3143	0.2795	----	----	0.295	12.85	0.999	1.00	14	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1807	0.1729	0.1967	0.2011	0.2025	0.1940	----	----	0.191	2.28	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.3260	0.2729	0.3371	0.3440	0.3420	0.3255	----	----	0.325	6.59	1.00	1.00	8.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2734	0.2371	0.2933	0.3052	0.3023	0.2854	----	----	0.283	3.09	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2788	0.2365	0.2984	0.3069	0.3041	0.2851	----	----	0.285	1.98	1.00	1.00	9.2	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2828	0.2388	0.2997	0.3105	0.3078	0.2886	----	----	0.288	2.55	1.00	1.00	9.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.23 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pch/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				7G574527.D			7G574534.D			7G57488.D			7G57507.D			7G57518.D		
Method:				8015			8015			8015			8015			8015		
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM		
Calibration Date/Time				10/28/22 10:07			10/28/22 16:50			10/26/22 15:01			10/27/22 01:44			10/27/22 13:33		
					Conc			Conc			Conc			Conc			Conc	
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	23.19	20	16.0	20.55	20	2.7	23.77	20	18.9	24.03	20	20.2	20.99	20	4.9
C9	20	1	0	22.89	20	14.5	20.22	20	1.1	23.34	20	16.7	23.66	20	18.3	20.87	20	4.4
C10	20	1	0	22.61	20	13.1	19.91	20	0.5	23.01	20	15.1	23.39	20	17.0	20.76	20	3.8
C12	20	1	0	21.81	20	9.0	19.34	20	3.3	22.38	20	11.9	22.71	20	13.6	19.88	20	0.6
C14	20	1	0	21.91	20	9.5	19.28	20	3.6	22.32	20	11.6	22.57	20	12.9	20.24	20	1.2
C16	20	1	0	21.96	20	9.8	19.26	20	3.7	22.35	20	11.8	22.56	20	12.8	20.13	20	0.6
C17	20	1	0	24	20	20.0	18.54	20	7.3	25.6	20	28.0*	22.92	20	14.6	20.31	20	1.5
Pristane	20	1	0	24.16	20	20.8*	21.03	20	5.2	23.92	20	19.6	24.8	20	24.0*	22.47	20	12.4
C18	20	1	0	22.07	20	10.4	19.11	20	4.4	22.54	20	12.7	22.65	20	13.3	20.09	20	0.5
Phytane	20	1	0	22.35	20	11.8	19.43	20	2.8	22.8	20	14.0	22.9	20	14.5	20.44	20	2.2
C20	20	1	0	22.41	20	12.1	19.52	20	2.4	22.9	20	14.5	23	20	15.0	20.4	20	2.0
C22	20	1	0	22.58	20	12.9	19.66	20	1.7	23.01	20	15.1	23.14	20	15.7	20.46	20	2.3
C24	20	1	0	22.5	20	12.5	19.57	20	2.2	23.07	20	15.4	23.1	20	15.5	20.44	20	2.2
C26	20	1	0	22.43	20	12.2	19.51	20	2.4	23.03	20	15.2	23.05	20	15.3	20.4	20	2.0
C28	20	1	0	22.28	20	11.4	19.33	20	3.4	22.83	20	14.2	22.88	20	14.4	20.2	20	1.0
C30	20	1	0	21.88	20	9.4	18.95	20	5.2	22.67	20	13.4	22.46	20	12.3	19.9	20	0.5
C32	20	1	0	21.4	20	7.0	18.37	20	8.1	22.52	20	12.6	22.05	20	10.3	19.43	20	2.8
C34	20	1	0	20.18	20	0.9	17.12	20	14.4	22.4	20	12.0	20.61	20	3.1	18.31	20	8.5
C36	20	1	0	18.34	20	8.3	14.77	20	26.2*	22.87	20	14.4	18.86	20	5.7	16.31	20	18.5
C40	20	1	0	9.72	20	51.4*	7.05	20	64.8*	22.33	20	11.7	9.59	20	52.1*	8.41	20	58.0*
C44	20	1	0	4.07	20	79.7*	3.08	20	84.6*	21.31	20	6.5	3.88	20	80.6*	3.84	20	80.8*
Chlorobenzene	20	1	0	22.83	20	14.2	20.08	20	0.4	23.21	20	16.1	23.57	20	17.9	20.75	20	3.8
O-Terphenyl	20	1	0	22.11	20	10.6	19.33	20	3.4	22.25	20	11.3	22.18	20	10.9	20.21	20	1.0
Average Difference	20	1	0			16.4			11.0			14.4			18.7			9.4

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669398.D			8G669417.D												
Method:				8015			8015												
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM												
Calibration Date/Time				10/28/22 10:08			10/28/22 20:26												
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	23.49	20	17.5	21.51	20	7.6									
C9	20	1	0	22.76	20	13.8	21.02	20	5.1									
C10	20	1	0	22.38	20	11.9	20.66	20	3.3									
C12	20	1	0	21.51	20	7.6	20.68	20	3.4									
C14	20	1	0	21.32	20	6.6	20.04	20	0.2									
C16	20	1	0	21.43	20	7.2	20.07	20	0.3									
C17	20	1	0	19.97	20	0.2	21.64	20	8.2									
Pristane	20	1	0	17.49	20	12.6	18.85	20	5.7									
C18	20	1	0	20.77	20	3.9	19.5	20	2.5									
Phytane	20	1	0	20.6	20	3.0	19.84	20	0.8									
C20	20	1	0	20.41	20	2.0	19.45	20	2.7									
C22	20	1	0	20.25	20	1.3	19.16	20	4.2									
C24	20	1	0	20.02	20	0.1	19.06	20	4.7									
C26	20	1	0	19.8	20	1.0	18.7	20	6.5									
C28	20	1	0	19.42	20	2.9	18.53	20	7.3									
C30	20	1	0	19.57	20	2.2	18.26	20	8.7									
C32	20	1	0	19.68	20	1.6	18.11	20	9.4									
C34	20	1	0	19.76	20	1.2	18.11	20	9.4									
C36	20	1	0	19.51	20	2.4	18	20	10.0									
C40	20	1	0	19.54	20	2.3	18.91	20	5.5									
Chlorobenzene	20	1	0	22.59	20	13.0	20.98	20	4.9									
O-Terphenyl	20	1	0	20.45	20	2.3	19.78	20	1.1									
Average Difference	20	1	0			5.3			5.1									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.35	(8.31 - 8.39)	6.58	(6.54 - 6.62)	8.29	(8.25 - 8.33)	8.30	(8.26 - 8.34)	8.29	(8.25 - 8.33)
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
Chlorobenzene	1	0										
C44	1	0										
O-Terphenyl	1	0	6.57	(6.53 - 6.61)								
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD34112-001
Client Id: SB-23SS(14-16)
Data File: 13M26063.D
Analysis Date: 10/26/22 01:28
Date Rec/Extracted: 10/25/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.36g:10ml
Final Vol: NA
Dilution: 93.3
Solids: 88

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**27**	**83**				

Worksheet #: 664048 *Total Target Concentration* 83 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-25-22\
Data File : 13M26063.D
Signal(s) : FID1A.CH
Acq On : 26 Oct 2022 1:28
Operator : WP
Sample : AD34112-001
Misc : M,MEXT!1
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 04 10:57:56 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

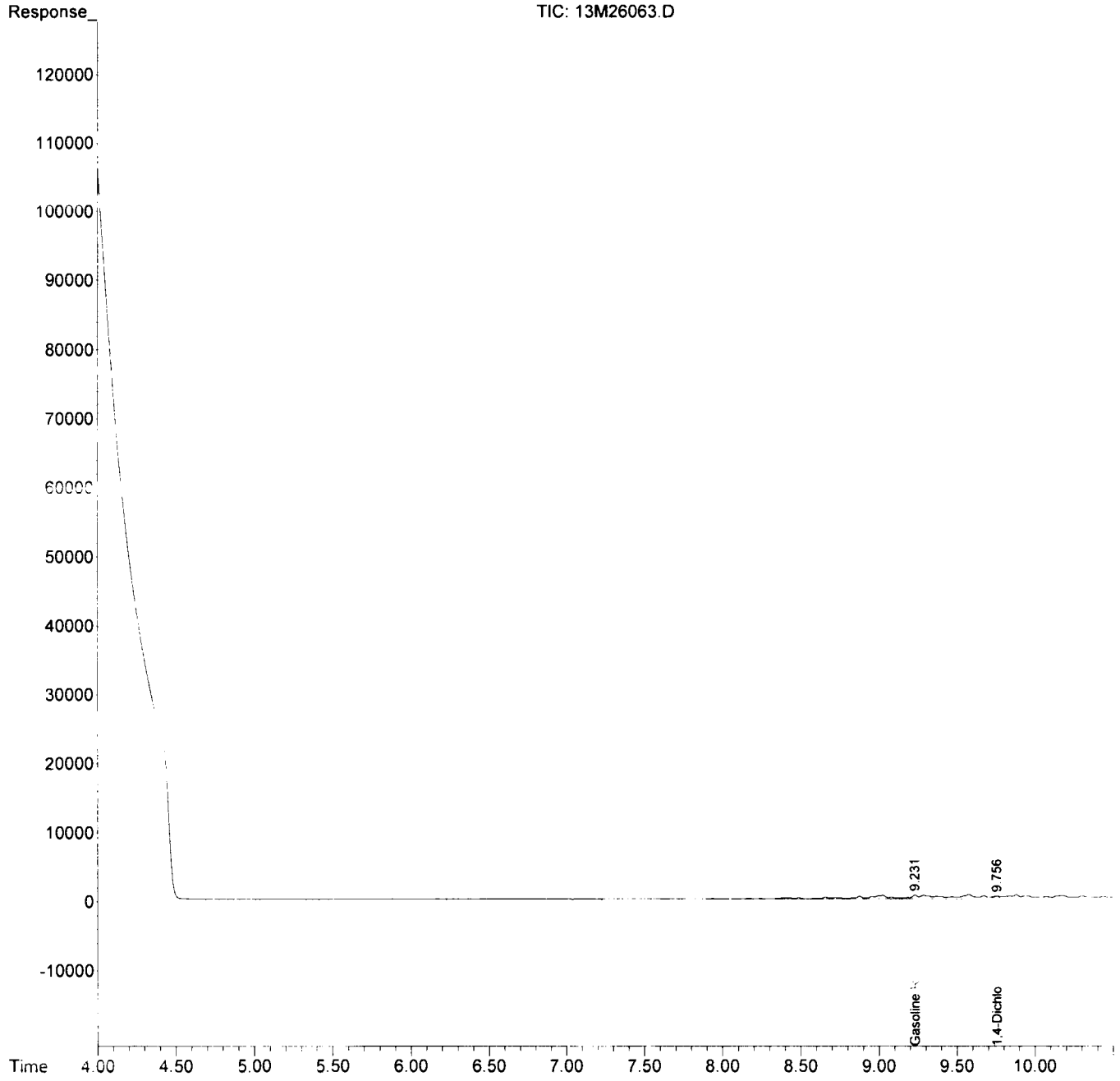
Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.756	5073	30.675		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g Gasoline Range Organics	9.231	210929	778.567	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2022\GC_13\Data\10-25-22\
Data File : 13M26063.D
Signal(s) : FID1A.CH
Acq On : 26 Oct 2022 1:28
Operator : WP
Sample : AD34112-001
Misc : M,MEXT!1
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 04 10:57:56 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M26035.D
Analysis Date: 10/25/22 17:54
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 664048

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-25-22\
Data File : 13M26035.D
Signal(s) : FID1A.CH
Acq On : 25 Oct 2022 17:54
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 25 18:10:02 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.672	6087	36.806		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

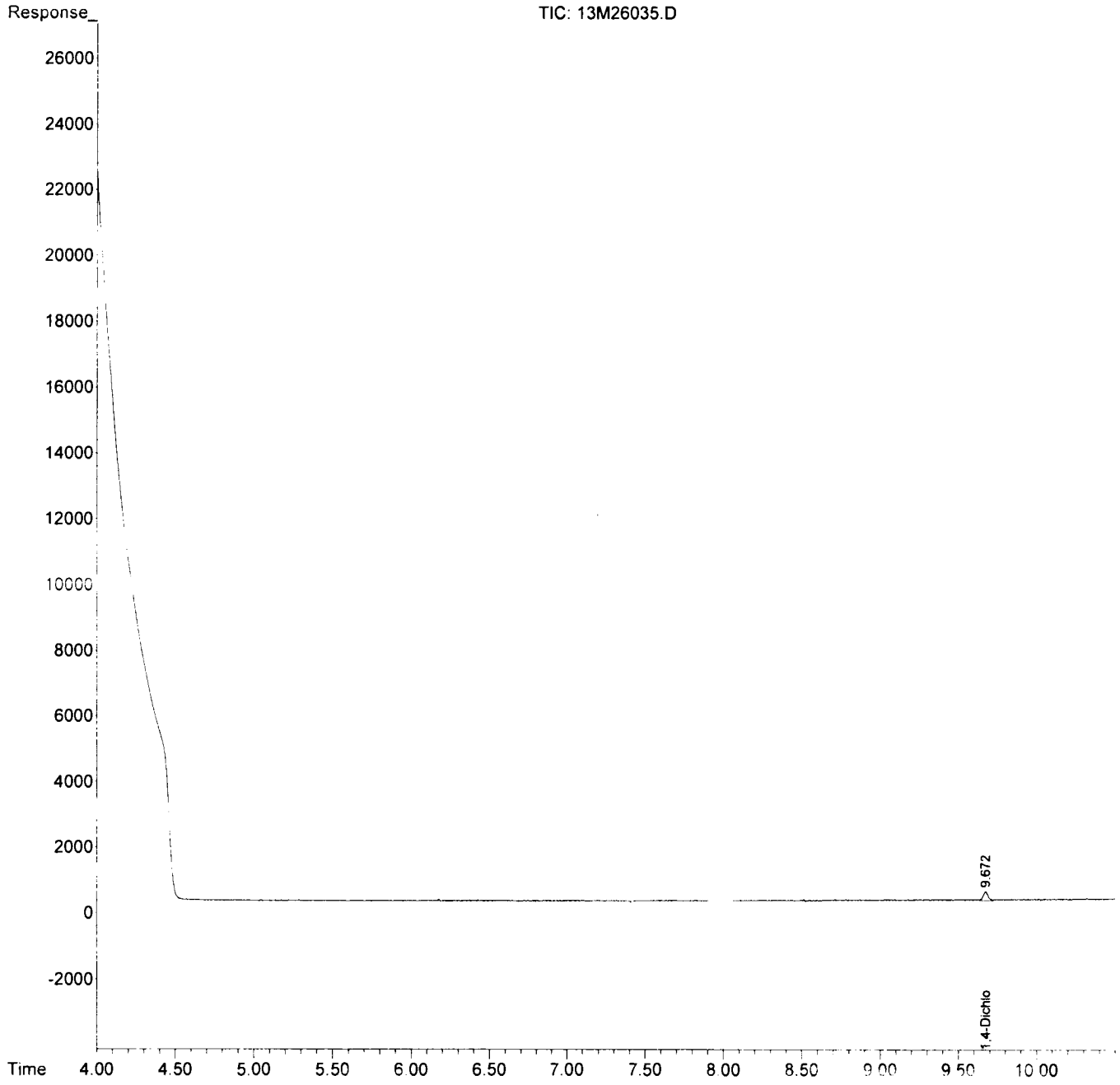
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-25-22\
Data File : 13M26035.D
Signal(s) : FID1A.CH
Acq On : 25 Oct 2022 17:54
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 25 18:10:02 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M26035.D	DAILY BLANK	M	10/25/22 17:54	1		123					
13M26063.D	AD34112-001	M	10/26/22 01:28	1		102					
13M26037.D	AD34096-001	M	10/25/22 18:26	1		85					
13M26041.D	AD34096-001(MS)	M	10/25/22 19:34	1		144					
13M26042.D	AD34096-001(MSD)	M	10/25/22 19:53	1		118					
13M26043.D	MBS105067	M	10/25/22 20:09	1		143					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105067

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26043.D	MBS105067	10/25/2022 8:09:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2052.11**	**0**	**2000**	**103**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105067

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26041.D	AD34096-001(MS)	10/25/2022 7:34:00 PM
Non Spike(If applicable):	13M26037.D	AD34096-001	10/25/2022 6:26:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2098.8**	**0**	**2000**	**105**	**11**	**181**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26042.D	AD34096-001(MSD)	10/25/2022 7:53:00 PM
Non Spike(If applicable):	13M26037.D	AD34096-001	10/25/2022 6:26:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1777.78**	**0**	**2000**	**89**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105067

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26042.D	AD34096-001(MSD)	10/25/2022 7:53:00 PM
Duplicate(If applicable):	13M26041.D	AD34096-001(MS)	10/25/2022 7:34:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**1777.78**	**2098.8**	**17**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M26035.D
Matrix: Methanol

Blank Analysis Date: 10/25/22 17:54
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34112-001	13M26063.D	10/26/22 01:28
MBS105067	13M26043.D	10/25/22 20:09
AD34096-001(MSD	13M26042.D	10/25/22 19:53
AD34096-001(MS)	13M26041.D	10/25/22 19:34
AD34096-001	13M26037.D	10/25/22 18:26

Form 5

Method: EPA 8015D
Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26015.D	CAL@ 250 PPB	10/24/22 20:14	Aqueous	13M2602	9.6659	0.1675		
13M26016.D	CAL@ 500 PPB	10/24/22 20:29	Aqueous	13M2602	9.6742	0.0816		
13M26017.D	CAL@ 750 PPB	10/24/22 20:44	Aqueous	13M2602	9.6732	0.092		
13M26018.D	CAL@ 1000 PPB	10/24/22 21:05	Aqueous	13M2602	9.6742	0.0816		
13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	Aqueous	13M2602	9.6740	0.0837		
13M26020.D	CAL@ 2000 PPB	10/24/22 21:37	Aqueous	13M2602	9.6750	0.0734		
13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	Aqueous	13M2602	9.6821	0		
13M26022.D	6000 PPB	10/24/22 22:08	Aqueous	13M2602	9.6832	0.0114		
13M26025.D	ICV	10/24/22 23:06	Aqueous	13M2602	9.6821	0		
13M26026.D	CAL @ 2000 PPB	10/24/22 23:21	Aqueous	13M2602	9.6729	0.0951		
13M26028.D	DAILY BLANK	10/24/22 23:56	Methanol	13M2602	9.6806	0.0796		
13M26029.D	DAILY BLANK	10/25/22 00:47	Aqueous	13M2602	9.6808	0.0816		
13M26030.D	MDL @ 250 PPB	10/25/22 01:02	Aqueous	13M2602	9.6706	0.0238		
13M26031.D	MDL @ 250 PPB	10/25/22 01:17	Aqueous	13M2602	9.6710	0.0197		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26033.D	CAL @ 2000 PPB	10/25/22 17:19	Aqueous	13M2603	9.6871	0		
13M26035.D	DAILY BLANK	10/25/22 17:54	Methanol	13M2603	9.6725	0.1508		
13M26036.D	DAILY BLANK	10/25/22 18:09	Aqueous	13M2603	9.6808	0.0651		
13M26037.D	AD34096-001	10/25/22 18:26	Methanol	13M2603	9.6837	0.0351		
13M26038.D	AD34096-003	10/25/22 18:41	Methanol	13M2603	9.6785	0.0888		
13M26039.D	AD34096-005	10/25/22 18:56	Methanol	13M2603	9.6726	0.1498		
13M26040.D	STD	10/25/22 19:19	Methanol	13M2603	9.6851	0.0207		
13M26041.D	AD34096-001(MS)	10/25/22 19:34	Methanol	13M2603	9.6765	0.1095		
13M26042.D	AD34096-001(MSD)	10/25/22 19:53	Methanol	13M2603	9.6796	0.0775		
13M26043.D	MBS105067	10/25/22 20:09	Methanol	13M2603	9.6829	0.0434		
13M26044.D	BLK	10/25/22 20:25	Aqueous	13M2603	0.0000	200		
13M26045.D	AD34096-007	10/25/22 20:40	Methanol	13M2603	9.6771	0.1033		
13M26046.D	AD34096-009	10/25/22 20:56	Methanol	13M2603	9.6733	0.1426		
13M26047.D	AD34096-011	10/25/22 21:12	Methanol	13M2603	9.6721	0.155		
13M26048.D	AD34096-013	10/25/22 21:29	Methanol	13M2603	9.6746	0.1291		
13M26049.D	AD34096-015	10/25/22 21:45	Methanol	13M2603	9.6762	0.1126		
13M26050.D	AD34096-017	10/25/22 22:01	Methanol	13M2603	9.6693	0.1839		
13M26051.D	AD34096-019	10/25/22 22:16	Methanol	13M2603	9.6681	0.1963		
13M26052.D	AD34096-021	10/25/22 22:31	Methanol	13M2603	9.6721	0.155		
13M26053.D	AD34096-023	10/25/22 22:46	Methanol	13M2603	9.6713	0.1632		
13M26054.D	AD34072-012	10/25/22 23:02	Methanol	13M2603	9.6746	0.1291		
13M26055.D	AD34055-006	10/25/22 23:17	Methanol	13M2603	9.6654	0.2243		
13M26056.D	AD34055-004	10/25/22 23:32	Methanol	13M2603	9.6723	0.1529		
13M26057.D	AD34055-002	10/25/22 23:48	Methanol	13M2603	9.6742	0.1333		
13M26058.D	AD34075-002	10/26/22 00:09	Methanol	13M2603	9.6841	0.031		
13M26059.D	BLK	10/26/22 00:26	Aqueous	13M2603	9.6715	0.1612		
13M26060.D	AD34075-002	10/26/22 00:41	Methanol	13M2603	9.6745	0.1302		
13M26061.D	BLK	10/26/22 00:57	Aqueous	13M2603	0.0000	200		
13M26062.D	2000 PPB	10/26/22 01:13	Aqueous	13M2603	9.6783	0.0909		
13M26063.D	AD34112-001	10/26/22 01:28	Methanol	13M2603	9.7562	0.7108		
13M26064.D	CAL @ 2000 PPB	10/26/22 01:43	Aqueous	13M2603	9.4065	2.9392		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2102502 0104

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	2	13M26020.D	CAL@ 2000 PPB	10/24/22 21:37
3	13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	4	13M26018.D	CAL@ 1000 PPB	10/24/22 21:05
5	13M26017.D	CAL@ 750 PPB	10/24/22 20:44	6	13M26016.D	CAL@ 500 PPB	10/24/22 20:29
7	13M26015.D	CAL@ 250 PPB	10/24/22 20:14				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	----	0.0193	0.0169	0.0162	0.0133	0.0191	0.0141	----	0.0165	9.71	-1	-1	15		30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0003	0.0003	0.0004	0.0003	0.0002	0.0003	0.0004	----	0.000360	5.60	0.990	0.994	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1.2.4-Trimethylbenzene	1	0	Avg	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	----	0.000460	9.50	0.989	0.999	9.5	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0264	0.0251	0.0264	0.0279	0.0268	0.0309	0.0260	----	0.0271	8.72	0.998	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.09 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M26033.D			13M26064.D										
Method:			8015			8015										
Calibration Name:			CAL @ 2000 PPB			CAL @ 2000 PPB										
Calibration Date/Time			10/25/22 17:19			10/26/22 01:43										
			Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	2305	2000	15.3	1638	2000	18.1									

Flags/Notes: **** - Values outside of limits for this column/run***

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 2102502**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD34112-001	SB-23SS(14-16)	Soil/Terracore	1	**88**	**Percent**			10/26/22	10/25/22	10/24/22

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-14018

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD34112-001	88	87.78173	Percent	1.33	9.76	8.73	10/26/22	BEENA	0.71	5
Sample	AD34112-001	88	88.40846	Percent	1.33	12.20	10.94	10/26/22	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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800-426-9992 · 973-244-9770
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WWW.HCVLAB.COM

Project: WMATA NBG

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei/Jeff Martineau

Received Date: 11/11/2022

Report Date: 12/13/2022

Deliverables: MDE-R

Lab ID: AD34490

Lab Project No: 2111105

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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Hampton-Clarke
WBE/DBE/SBE 800-426-9992

Form 1 Sample Results

Inorganic Spreadsheet / QC Summary

Sample Summary

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111105

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD34490-001	SB-69 (2-4')	Soil	11/10/2022	11/11/2022
AD34490-002	SB-68 (6-8')	Soil	11/10/2022	11/11/2022

HC Case Narrative

Client: Intertek-PSI
Project: WMATA NBG

HC Project: 2111105

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

12/13/22
Date

HC Executive Summary

Client: Intertek-PSI

HC Project #: 2111105

Project: WMATA NBG

NO RESULTS FOUND

HC Report of Analysis

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111105

Sample ID: SB-69 (2-4')
Lab#: AD34490-001
Matrix: Soil

Collection Date: 11/10/2022
Receipt Date: 11/11/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	72	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	85.9	mg/kg	26	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	72	ND

Sample ID: SB-68 (6-8')
Lab#: AD34490-002
Matrix: Soil

Collection Date: 11/10/2022
Receipt Date: 11/11/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		80

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	75	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	90.3	mg/kg	28	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	75	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111105

Lab#: AD34490-001 **Sample ID: SB-69 (2-4')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	11/14/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/17/22 10:46	Lynda	EPA 8015D	11/18/22 14:57	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/11/22 19:45	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/17/22 10:46	Lynda	EPA 8015D	11/18/22 14:57	AH/ABM/RR/K

Lab#: AD34490-002 **Sample ID: SB-68 (6-8')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	11/14/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/17/22 10:46	Lynda	EPA 8015D	11/18/22 15:23	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/11/22 20:00	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/17/22 10:46	Lynda	EPA 8015D	11/18/22 15:23	AH/ABM/RR/K

Chain of Custody

CHAIN OF CUSTODY 211105

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46, STE D and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787
Service Center: 137-C Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 211105

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek - PSI
Address: 2930 Eskridge Rd, Fairfax VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Jeff.Martineau
1d) Send Report to: Jeff + Rinzo. R

Project Information

2a) Project: WMATA NBG
2b) Project Mgr: Jeff Martineau
2c) Project Location (City/State): Washington, DC
2d) Quote/PO # (If Applicable): 0111100

FOR LAB USE ONLY

Batch # HD34490

===> Check If Contingent ===>

Matrix Codes

DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	TPH-DRO/GRO/RO	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	SB-69 (2-4')	S	11/10/22	1130		X	X	1								
002	SB-68 (6'-8')	S	↓	1500		X	X	1								

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX		
FEDEX	[signature]	11/11/22	10:00

11) Sampler (print name): RINZO . R Date: 11/10/22

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:

- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:

- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.4

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD34490 Entered By: maxwell

Date Entered 11/11/2022 10:07:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.4
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	No	Are samples preserved correctly? Samples for VOA not collected as Encore/Terracore
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD34490-001	11/11/22 10:00	MAXW	0	M	Received
AD34490-001	11/11/22 10:07	MAXW	0	M	Login
AD34490-001	11/11/22 15:32	R12	1	A	NONE
AD34490-001	11/11/22 22:56	PA	1	A	mx
AD34490-001	11/11/22 22:56	R12	1	A	NONE
AD34490-001	11/14/22 08:46	BCT	1	A	SOLIDS
AD34490-001	11/14/22 11:30	R12	1	A	NONE
AD34490-001	11/17/22 10:47	LV	1	A	TPH
AD34490-001	11/17/22 10:48	R12	1	A	NONE
AD34490-001	11/11/22 15:09	SG	2	A	GRO
AD34490-001	11/11/22 15:33	R30	2	A	NONE
AD34490-001	11/11/22 15:33	R31	3	A	NONE
AD34490-001	11/11/22 19:54	WP	3	M	GRO
AD34490-001	11/11/22 23:55	R31	3	A	NONE
AD34490-002	11/11/22 10:00	MAXW	0	M	Received
AD34490-002	11/11/22 10:07	MAXW	0	M	Login
AD34490-002	11/11/22 15:32	R12	1	A	NONE
AD34490-002	11/11/22 22:56	R12	1	A	NONE
AD34490-002	11/11/22 22:56	PA	1	A	mx
AD34490-002	11/14/22 08:46	BCT	1	A	SOLIDS
AD34490-002	11/14/22 11:30	R12	1	A	NONE
AD34490-002	11/17/22 10:47	LV	1	A	TPH
AD34490-002	11/17/22 10:48	R12	1	A	NONE
AD34490-002	11/11/22 15:09	SG	2	A	GRO
AD34490-002	11/11/22 15:33	R30	2	A	NONE
AD34490-002	11/11/22 15:33	R31	3	A	NONE
AD34490-002	11/11/22 19:54	WP	3	M	GRO
AD34490-002	11/11/22 23:55	R31	3	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34490-001
Client Id: SB-69 (2-4')
Data File: 8G669586.D
Analysis Date: 11/18/22 14:57
Date Rec/Extracted: 11/11/22-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	72	U				

Worksheet #: 666629

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669586.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:57:41
Operator : AH/ABM/RR/KT/JR
Sample : AD34490-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 11:18:46 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.261	18385	10.461		
23)	O-Terphenyl	6.555	44527	15.581		
24)d	Diesel Range Organics(T	6.554f	163627	70.194		m
25)t	Total Petroleum Hydroca	6.554f	952584	418.009		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

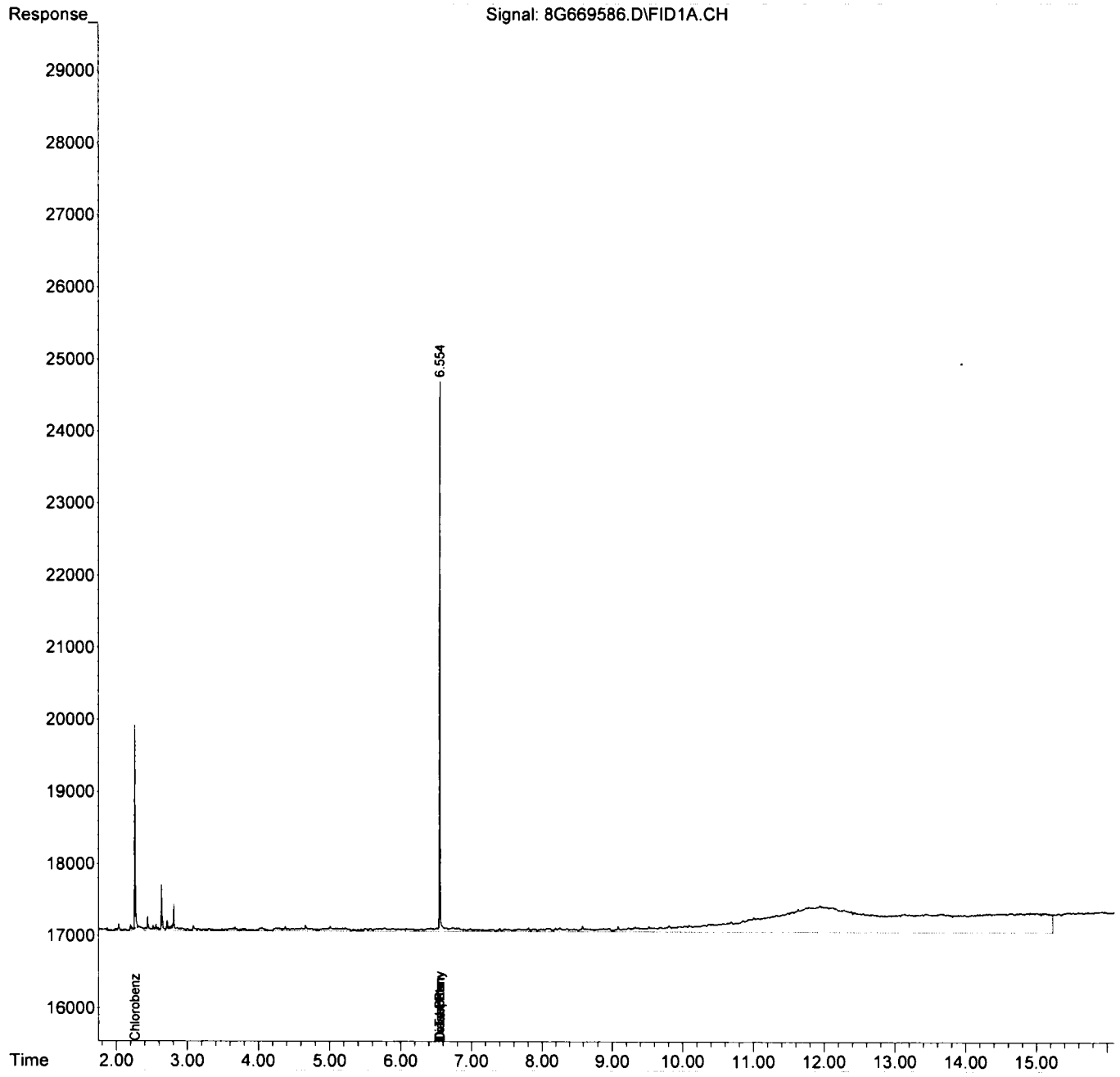
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669586.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:57:41
Operator : AH/ABM/RR/KT/JR
Sample : AD34490-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 11:18:46 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34490-002
Client Id: SB-68 (6-8')
Data File: 8G669587.D
Analysis Date: 11/18/22 15:23
Date Rec/Extracted: 11/11/22-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	75	U				

Worksheet #: 666629

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669587.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 15:23:29
Operator : AH/ABM/RR/KT/JR
Sample : AD34490-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 11:19:40 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.260	18497	10.524		
23)	O-Terphenyl	6.549	44922	15.719		
24)d	Diesel Range Organics(T	6.548f	171475	73.561		m
25)t	Total Petroleum Hydroca	6.548f	1016942	446.250		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

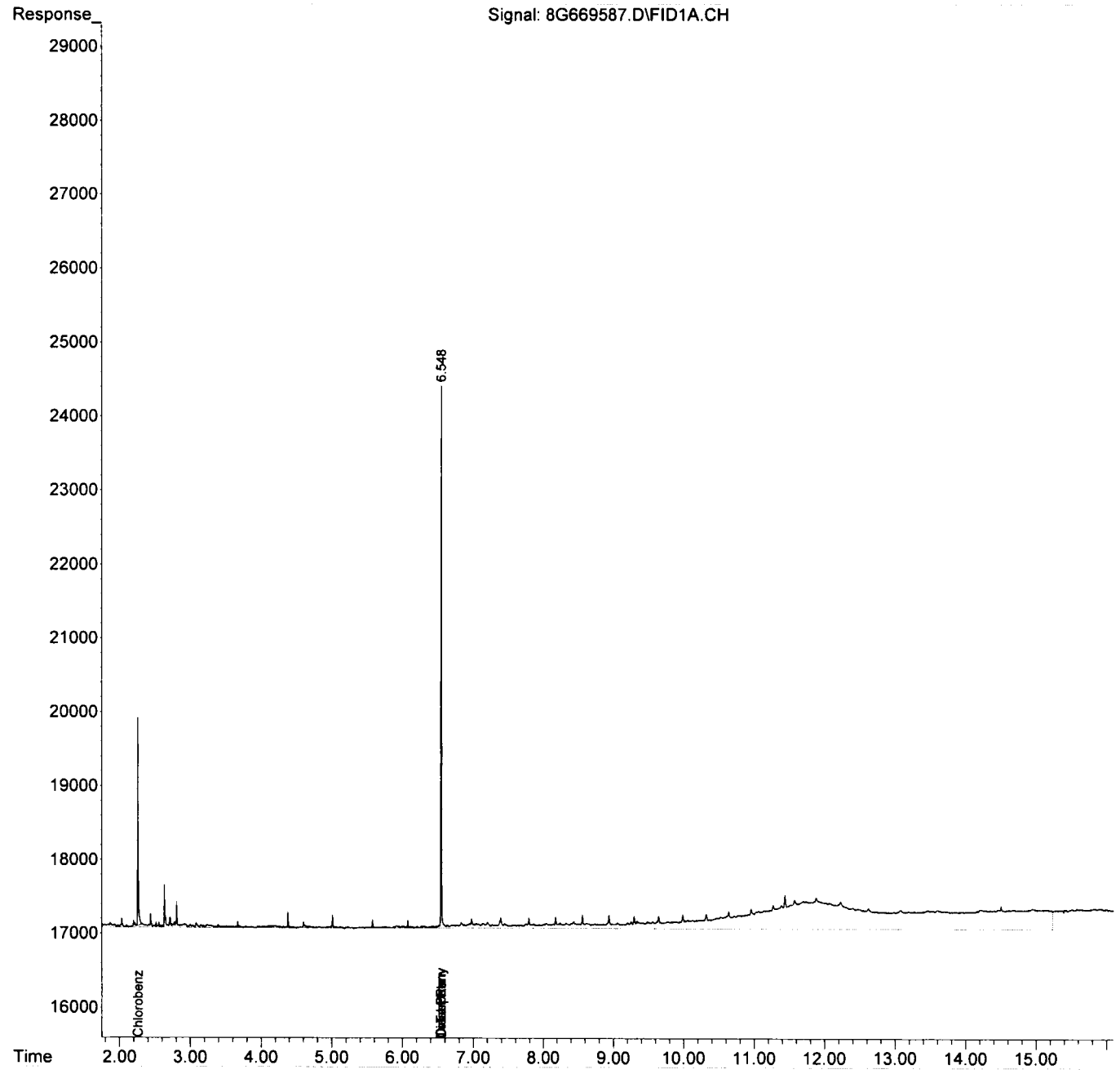
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669587.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 15:23:29
Operator : AH/ABM/RR/KT/JR
Sample : AD34490-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 11:19:40 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103654
Client Id:
Data File: 8G669584.D
Analysis Date: 11/18/22 14:06
Date Rec/Extracted: NA-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 666629

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669584.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:06:43
Operator : AH/ABM/RR/KT/JR
Sample : SMB103654
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 16:29:30 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	22444	12.770		
23)	O-Terphenyl	6.696f	49965	17.483		
24)d	Diesel Range Organics(T	6.696f	236042	101.260		m
25)t	Total Petroleum Hydroca	6.696f	1032520	453.086		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

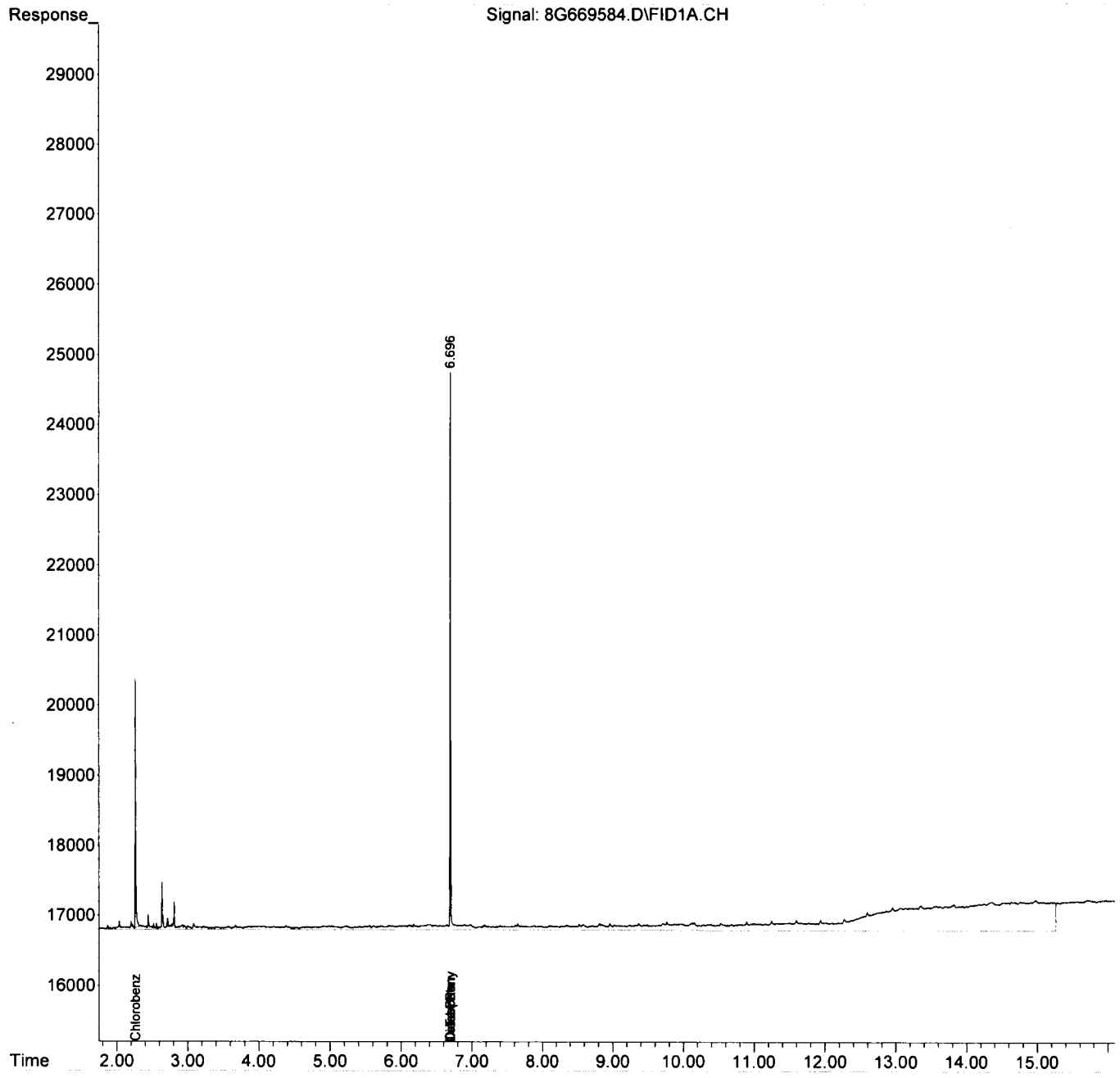
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669584.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:06:43
Operator : AH/ABM/RR/KT/JR
Sample : SMB103654
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 16:29:30 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669583.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 12:19:15
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 14:04:37 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	9.436f	92944	39.872		m
25)t	Total Petroleum Hydroca	12.082f	978233	429.264		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

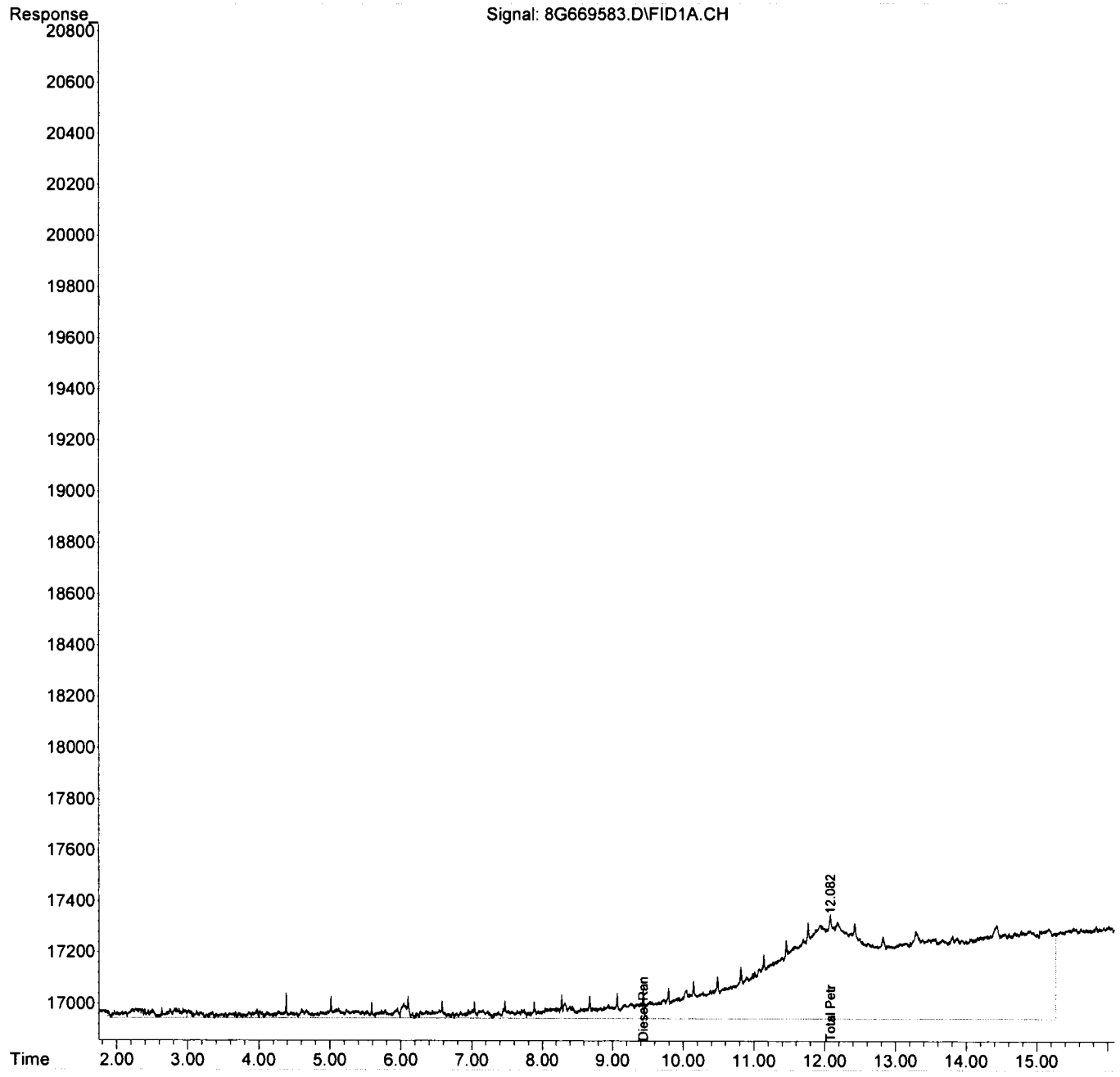
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669583.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 12:19:15
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 14:04:37 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669584.D	SMB103654	S	11/18/22 14:06	1		64	87				
8G669592.D	SMB103688	S	11/21/22 09:21	1		37	57				
8G669586.D	AD34490-001	S	11/18/22 14:57	1		52	78				
8G669587.D	AD34490-002	S	11/18/22 15:23	1		53	79				
8G669566.D	SMB103654(MS)	S	11/17/22 15:24	1		72	106				
8G669568.D	AD34426-001(MS)	S	11/17/22 16:09	1		63	80				
8G669569.D	AD34426-001(MSD)	S	11/17/22 16:31	1		69	102				
8G669593.D	AD34426-001(R)	S	11/21/22 09:43	1		47	73				
8G669607.D	SMB103688(MS)	S	11/22/22 12:50	1		38	88				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669566.D	SMB103654(MS)	11/17/2022 3:24:12 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2641.97	0	3000	88	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669568.D	AD34426-001(MS)	11/17/2022 4:09:14 PM
Non Spike(If applicable):	8G669593.D	AD34426-001(R)	11/21/2022 9:43:37 AM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2136.41	0	3000	71	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669569.D	AD34426-001(MSD)	11/17/2022 4:31:54 PM
Non Spike(If applicable):	8G669593.D	AD34426-001(R)	11/21/2022 9:43:37 AM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2688.21	0	3000	90	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669569.D	AD34426-001(MSD)	11/17/2022 4:31:54 PM
Duplicate(If applicable):	8G669568.D	AD34426-001(MS)	11/17/2022 4:09:14 PM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	2688.21	2136.41	23	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103688

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669607.D	SMB103688(MS)	11/22/2022 12:50:51 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2303.19	0	3000	77	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103654
Blank Data File: 8G669584.D
Matrix: Soil

Blank Analysis Date: 11/18/22 14:06
Blank Extraction Date: 11/17/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34490-001	8G669586.D	11/18/22 14:57
AD34490-002	8G669587.D	11/18/22 15:23
AD34426-001(MSD	8G669569.D	11/17/22 16:31
AD34426-001(MS)	8G669568.D	11/17/22 16:09
SMB103654(MS)	8G669566.D	11/17/22 15:24

FORM 4
Blank Summary

Blank Number: SMB103688
Blank Data File: 8G669592.D
Matrix: Soil

Blank Analysis Date: 11/21/22 09:21
Blank Extraction Date: 11/20/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
SMB103688(MS)	8G669607.D	11/22/22 12:50
AD34426-001(R)	8G669593.D	11/21/22 09:43

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669147.D	INST BLK(MECL2)	10/10/22 08:56	Aqueous					
8G669148.D	TPH@20PPM	10/10/22 11:55	Aqueous					
8G669149.D	TPH@500PPM	10/10/22 12:39	Aqueous					
8G669150.D	CALTPH@100PPM	10/10/22 13:05	Aqueous	8G66915	6.5864	0.0623		
8G669151.D	CALTPH@40PPM	10/10/22 13:28	Aqueous	8G66915	6.5732	0.1383		
8G669152.D	TPH@20PPM	10/10/22 13:50	Aqueous	8G66915	6.5825	0.003		
8G669153.D	CALTPH@10PPM	10/10/22 14:13	Aqueous	8G66915	6.5752	0.1079		
8G669154.D	CALTPH@5PPM	10/10/22 14:36	Aqueous	8G66915	6.5823	0		
8G669155.D	CALTPH@500PPM	10/10/22 14:59	Aqueous	8G66915	6.5880	0.0866		
8G669156.D	CALTPH@20PPM	10/10/22 15:21	Aqueous	8G66915	6.5861	0.0577		
8G669157.D	ICVTPH@20PPM	10/10/22 15:44	Aqueous	8G66915	6.5818	0.0076		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669562.D	INST BLK	11/17/22 13:39	Aqueous					
8G669563.D	CALTPH@20PPM	11/17/22 14:02	Aqueous	8G66956	6.5672	0		
8G669564.D	INST BLK	11/17/22 14:39	Aqueous	8G66956	0.0000	200		
8G669565.D	SMB103654	11/17/22 15:01	Soil	8G66956	6.5442	0.3508		
8G669566.D	SMB103654(MS)	11/17/22 15:24	Soil	8G66956	6.5530	0.2165		
8G669567.D	AD34426-001	11/17/22 15:46	Soil	8G66956	6.5517	0.2363		
8G669568.D	AD34426-001(MS)	11/17/22 16:09	Soil	8G66956	6.5494	0.2714		
8G669569.D	AD34426-001(MSD)	11/17/22 16:31	Soil	8G66956	6.5414	0.3936		
8G669570.D	AD34426-002	11/17/22 16:54	Soil	8G66956	6.5349	0.4931		
8G669571.D	AD34426-003	11/17/22 17:17	Soil	8G66956	6.5263	0.6247		
8G669572.D	AD34426-004	11/17/22 17:39	Soil	8G66956	6.5243	0.6554		
8G669573.D	AD34426-005	11/17/22 18:02	Soil	8G66956	6.5442	0.3508		
8G669574.D	AD34426-006	11/17/22 18:24	Soil	8G66956	6.5380	0.4456		
8G669575.D	AD34488-001	11/17/22 18:47	Soil	8G66956	6.5371	0.4594		
8G669576.D	AD34488-002	11/17/22 19:10	Soil	8G66956	6.5323	0.5328		
8G669577.D	CAL TPH@20PPM	11/17/22 19:32	Soil	8G66956	6.5294	0.5773		
8G669578.D	CAL TPH@20PPM	11/17/22 19:55	Soil	8G66956	6.5267	0.6186		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669581.D	INST BLK	11/18/22 10:34	Aqueous					
8G669582.D	CALTPH@20PPM	11/18/22 11:40	Aqueous	8G66958	6.5313	0		
8G669583.D	INST BLK	11/18/22 12:19	Aqueous	8G66958	0.0000	200		
8G669584.D	SMB103654	11/18/22 14:06	Soil	8G66958	6.6963	2.4948		
8G669585.D	AD34453-001	11/18/22 14:31	Soil	8G66958	6.5536	0.3408		
8G669586.D	AD34490-001	11/18/22 14:57	Soil	8G66958	6.5546	0.3561		
8G669587.D	AD34490-002	11/18/22 15:23	Soil	8G66958	6.5487	0.2661		
8G669588.D	CALTPH@20PPM	11/18/22 16:33	Aqueous	8G66958	6.6583	1.9258		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669589.D	INST BLK	11/21/22 08:14	Aqueous					
8G669590.D	CALTPH@20PPM	11/21/22 08:36	Aqueous	8G66959	6.5579	0		
8G669591.D	INST BLK	11/21/22 08:58	Aqueous	8G66959	0.0000	200		
8G669592.D	SMB103688	11/21/22 09:21	Soil	8G66959	6.5473	0.1618		
8G669593.D	AD34426-001(R)	11/21/22 09:43	Soil	8G66959	6.5419	0.2443		
8G669594.D	AD34426-003(R)	11/21/22 10:06	Soil	8G66959	6.5448	0.2		
8G669595.D	AD34564-004(R)	11/21/22 10:28	Soil	8G66959	6.5511	0.1037		
8G669596.D	AD34613-001	11/21/22 10:50	Soil	8G66959	6.5357	0.3391		
8G669597.D	AD34613-002	11/21/22 11:13	Soil	8G66959	6.5358	0.3376		
8G669598.D	AD34613-003	11/21/22 11:35	Soil	8G66959	6.5339	0.3666		
8G669599.D	AD34613-004	11/21/22 11:58	Soil	8G66959	6.5410	0.258		
8G669600.D	AD34613-005	11/21/22 12:20	Soil	8G66959	6.5388	0.2917		
8G669601.D	AD34613-006	11/21/22 12:43	Soil	8G66959	6.5413	0.2535		
8G669602.D	CALTPH@20PPM	11/21/22 13:12	Soil	8G66959	6.5891	0.4746		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669603.D	INST BLK	11/22/22 09:02	Aqueous					
8G669604.D	CALTPH@20PPM	11/22/22 11:34	Aqueous	8G66960	6.5878	0		
8G669605.D	INST BLK	11/22/22 11:59	Aqueous	8G66960	0.0000	200		
8G669606.D	SMB103688	11/22/22 12:25	Soil	8G66960	6.5337	0.8246		
8G669607.D	SMB103688(MS)	11/22/22 12:50	Soil	8G66960	6.5266	0.9333		
8G669608.D	WMB103682	11/22/22 13:17	Aqueous	8G66960	6.5286	0.9027		
8G669609.D	WMB103682(MS)	11/22/22 13:42	Aqueous	8G66960	6.5262	0.9395		
8G669610.D	AD34533-001	11/22/22 14:08	Aqueous	8G66960	6.5301	0.8797		
8G669611.D	AD34533-002	11/22/22 14:34	Aqueous	8G66960	6.5262	0.9395		
8G669612.D	AD34533-001(MS)	11/22/22 14:59	Aqueous	8G66960	6.5427	0.687		
8G669613.D	AD34533-001(MSD)	11/22/22 15:47	Aqueous	8G66960	6.6246	0.5571		
8G669614.D	AD34593-001	11/22/22 16:12	Soil	8G66960	6.5607	0.4122		
8G669615.D	CALTPH@20PPM	11/22/22 16:38	Aqueous	8G66960	6.5530	0.5296		
8G669616.D	INST BLK	11/22/22 17:03	Aqueous	8G66961	0.0000	200		
8G669617.D	AD34609-003	11/22/22 17:29	Soil	8G66961	6.5456	0.113		
8G669618.D	AD34609-003(MS)	11/22/22 17:54	Soil	8G66961	6.5342	0.2873		
8G669619.D	AD34609-003(MSD)	11/22/22 18:20	Soil	8G66961	6.5285	0.3746		
8G669620.D	AD34609-004	11/22/22 18:45	Soil	8G66961	6.5365	0.2521		
8G669621.D	AD34609-005	11/22/22 19:10	Soil	8G66961	6.5231	0.4573		
8G669622.D	AD34609-006	11/22/22 19:36	Soil	8G66961	6.5258	0.4159		
8G669623.D	TEST	11/22/22 20:01	Aqueous	8G66961	0.0000	200		
8G669624.D	CALTPH@20PPM	11/22/22 20:26	Aqueous	8G66961	6.5217	0.4788		
8G669625.D	CALTPH@20PPM	11/22/22 20:52	Aqueous	8G66961	6.5127	0.6169		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2111105 0037

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pch/chlordane etc.)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

2111105 0038

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669154.D	CALTPH@5PPM	10/10/22 14:36	2	8G669153.D	CALTPH@10PPM	10/10/22 14:13
3	8G669156.D	CALTPH@20PPM	10/10/22 15:21	4	8G669151.D	CALTPH@40PPM	10/10/22 13:28
5	8G669150.D	CALTPH@100PPM	10/10/22 13:05	6	8G669155.D	CALTPH@500PPM	10/10/22 14:59

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2114	0.2042	0.2260	0.2271	0.2282	0.2266	----	----	0.221	1.98	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.2240	0.2129	0.2394	0.2423	0.2436	0.2399	----	----	0.234	2.55	1.00	1.00	5.3	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2261	0.2159	0.2472	0.2495	0.2517	0.2463	----	----	0.240	3.09	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2391	0.2205	0.2650	0.2714	0.2715	0.2636	----	----	0.255	4.03	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.2460	0.2300	0.2752	0.2814	0.2820	0.2707	----	----	0.264	4.84	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2627	0.2384	0.2852	0.2907	0.2911	0.2774	----	----	0.274	5.55	0.999	1.00	7.5	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2852	0.2543	0.2933	0.3490	0.3280	0.3007	----	----	0.302	5.89	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2363	0.2172	0.2883	0.2886	0.2658	0.2437	----	----	0.257	5.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2799	0.2430	0.3031	0.3121	0.3129	0.2972	----	----	0.291	6.22	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2591	0.2170	0.2699	0.2743	0.2745	0.2580	----	----	0.259	6.25	0.999	1.00	8.4	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2897	0.2465	0.3103	0.3195	0.3201	0.3026	----	----	0.298	6.87	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2961	0.2511	0.3118	0.3243	0.3254	0.3073	----	----	0.303	7.50	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3020	0.2498	0.3205	0.3337	0.3333	0.3131	----	----	0.309	8.12	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3194	0.2453	0.3196	0.3346	0.3352	0.3140	----	----	0.311	8.72	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3124	0.2530	0.3236	0.3386	0.3384	0.3160	----	----	0.314	9.32	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.3229	0.2510	0.3281	0.3436	0.3421	0.3179	----	----	0.318	9.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3418	0.2598	0.3308	0.3523	0.3495	0.3206	----	----	0.326	10.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3248	0.2482	0.3267	0.3456	0.3402	0.3083	----	----	0.316	11.03	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3222	0.2441	0.3570	0.3373	0.3350	0.2980	----	----	0.316	11.58	0.996	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2742	0.2282	0.3477	0.3229	0.3143	0.2795	----	----	0.295	12.85	0.999	1.00	14	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1807	0.1729	0.1967	0.2011	0.2025	0.1940	----	----	0.191	2.28	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.3260	0.2729	0.3371	0.3440	0.3420	0.3255	----	----	0.325	6.59	1.00	1.00	8.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2734	0.2371	0.2933	0.3052	0.3023	0.2854	----	----	0.283	3.09	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2788	0.2365	0.2984	0.3069	0.3041	0.2851	----	----	0.285	1.98	1.00	1.00	9.2	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2828	0.2388	0.2997	0.3105	0.3078	0.2886	----	----	0.288	2.55	1.00	1.00	9.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.23 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669563.D				8G669577.D				8G669582.D				8G669588.D				8G669590.D			
Method:				8015				8015				8015				8015				8015			
Calibration Name:				CALTPH@20PPM				CAL TPH@20PPM				CALTPH@20PPM				CALTPH@20PPM				CALTPH@20PPM			
Calibration Date/Time				11/17/22 14:02				11/17/22 19:32				11/18/22 11:40				11/18/22 16:33				11/21/22 08:36			
				Conc				Conc				Conc				Conc				Conc			
Compound	Limit	Col	Mr	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff	
C8	20	1	0	22.67	20	13.4		20.89	20	4.4		22.74	20	13.7		22.62	20	13.1		21.05	20	5.2	
C9	20	1	0	21.92	20	9.6		20.01	20	0.1		21.5	20	7.5		21.18	20	5.9		20.27	20	1.4	
C10	20	1	0	21.34	20	6.7		19.48	20	2.6		20.9	20	4.5		20.38	20	1.9		19.35	20	3.2	
C12	20	1	0	20.63	20	3.1		18.67	20	6.6		20.58	20	2.9		20.54	20	2.7		19.12	20	4.4	
C14	20	1	0	20.55	20	2.7		18.95	20	5.2		21.16	20	5.8		20.78	20	3.9		18.82	20	5.9	
C16	20	1	0	20.02	20	0.1		18.38	20	8.1		20.95	20	4.8		21.44	20	7.2		18.95	20	5.2	
C17	20	1	0	18.79	20	6.0		18.05	20	9.8		22.82	20	14.1		20.18	20	0.9		17.72	20	11.4	
Pristane	20	1	0	21.43	20	7.2		19.22	20	3.9		21.75	20	8.8		20.29	20	1.5		21.95	20	9.8	
C18	20	1	0	19.88	20	0.6		17.92	20	10.4		20.14	20	0.7		19.97	20	0.2		17.74	20	11.3	
Phytane	20	1	0	20.3	20	1.5		19.29	20	3.5		22.34	20	11.7		22.01	20	10.1		20.12	20	0.6	
C20	20	1	0	19.66	20	1.7		18.12	20	9.4		20.99	20	4.9		21.08	20	5.4		18.17	20	9.2	
C22	20	1	0	19.36	20	3.2		17.97	20	10.2		21.06	20	5.3		21.11	20	5.6		18.17	20	9.2	
C24	20	1	0	19.35	20	3.2		17.87	20	10.7		20.59	20	3.0		21.54	20	7.7		18.06	20	9.7	
C26	20	1	0	19.14	20	4.3		17.39	20	13.1		21.17	20	5.9		21.56	20	7.8		17.5	20	12.5	
C28	20	1	0	18.82	20	5.9		17.18	20	14.1		21.18	20	5.9		21.21	20	6.0		17.36	20	13.2	
C30	20	1	0	18.86	20	5.7		16.97	20	15.2		21.77	20	8.9		21.4	20	7.0		16.89	20	15.6	
C32	20	1	0	18.18	20	9.1		15.85	20	20.8*		20.4	20	2.0		20.92	20	4.6		16.05	20	19.8	
C34	20	1	0	16.79	20	16.1		14.86	20	25.7*		20.47	20	2.3		20.59	20	3.0		14.67	20	26.7*	
C36	20	1	0	15.31	20	23.5*		13.51	20	32.5*		21.24	20	6.2		21.88	20	9.4		13.3	20	33.5*	
C40	20	1	0	15.87	20	20.7*		12.32	20	38.4*		19.64	20	1.8		21.57	20	7.8		11.84	20	40.8*	
Chlorobenzene	20	1	0	22.12	20	10.6		20.6	20	3.0		21.32	20	6.6		21.82	20	9.1		20.03	20	0.2	
O-Terphenyl	20	1	0	20.03	20	0.2		18.48	20	7.6		21.34	20	6.7		21.28	20	6.4		18.87	20	5.6	
Average Difference	20	1	0			7.0				11.6				5.9				5.6				11.6	

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8015D

Data File:	8G669602.D	8G669604.D	8G669615.D
Method:	8015	8015	8015
Calibration Name:	CALTPH@20PPM	CALTPH@20PPM	CALTPH@20PPM
Calibration Date/Time	11/21/22 13:12	11/22/22 11:34	11/22/22 16:38

Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	20.76	20	3.8	21.61	20	8.1	19.94	20	0.3						
C9	20	1	0	19.85	20	0.7	20.76	20	3.8	18.58	20	7.1						
C10	20	1	0	19.41	20	3.0	20.57	20	2.8	17.8	20	11.0						
C12	20	1	0	18.76	20	6.2	20.33	20	1.7	17.55	20	12.3						
C14	20	1	0	18.92	20	5.4	21.55	20	7.7	18.38	20	8.1						
C16	20	1	0	17.77	20	11.2	23.05	20	15.3	18.5	20	7.5						
C17	20	1	0	15.66	20	21.7*	19.31	20	3.5	21.54	20	7.7						
Pristane	20	1	0	20.2	20	1.0	19.43	20	2.8	16.88	20	15.6						
C18	20	1	0	17.16	20	14.2	21.29	20	6.5	17.45	20	12.8						
Phytane	20	1	0	19.75	20	1.3	20.54	20	2.7	20.57	20	2.8						
C20	20	1	0	18.12	20	9.4	22.3	20	11.5	19.13	20	4.4						
C22	20	1	0	17.75	20	11.3	22.77	20	13.9	19.02	20	4.9						
C24	20	1	0	17.66	20	11.7	22.19	20	11.0	19.19	20	4.0						
C26	20	1	0	17.16	20	14.2	22.09	20	10.5	19.88	20	0.6						
C28	20	1	0	17	20	15.0	21.84	20	9.2	19.7	20	1.5						
C30	20	1	0	16.66	20	16.7	21.61	20	8.1	19.99	20	0.1						
C32	20	1	0	15.79	20	21.1*	22.03	20	10.2	19.73	20	1.4						
C34	20	1	0	14.51	20	27.5*	20.53	20	2.7	19.41	20	3.0						
C36	20	1	0	13.19	20	34.1*	18.27	20	8.6	18.61	20	6.9						
C40	20	1	0	12.3	20	38.5*	16.34	20	18.3	16.98	20	15.1						
Chlorobenzene	20	1	0	20.15	20	0.7	20.72	20	3.6	18.56	20	7.2						
O-Terphenyl	20	1	0	18.71	20	6.5	20.4	20	2.0	19.1	20	4.5						
Average Difference	20	1	0			12.5			7.8			6.9						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.58	(6.54 - 6.62)	6.57	(6.53 - 6.61)	6.53	(6.49 - 6.57)	6.56	(6.52 - 6.60)
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.59	(6.55 - 6.63)								
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34490-001
Client Id: SB-69 (2-4')
Data File: 8G669586.D
Analysis Date: 11/18/22 14:57
Date Rec/Extracted: 11/11/22-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	72	U				

Worksheet #: 666627

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669586.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:57:41
Operator : AH/ABM/RR/KT/JR
Sample : AD34490-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 11:18:46 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.261	18385	10.461		
23)	O-Terphenyl	6.555	44527	15.581		
24)d	Diesel Range Organics(T	6.554f	163627	70.194		m
25)t	Total Petroleum Hydroca	6.554f	952584	418.009		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

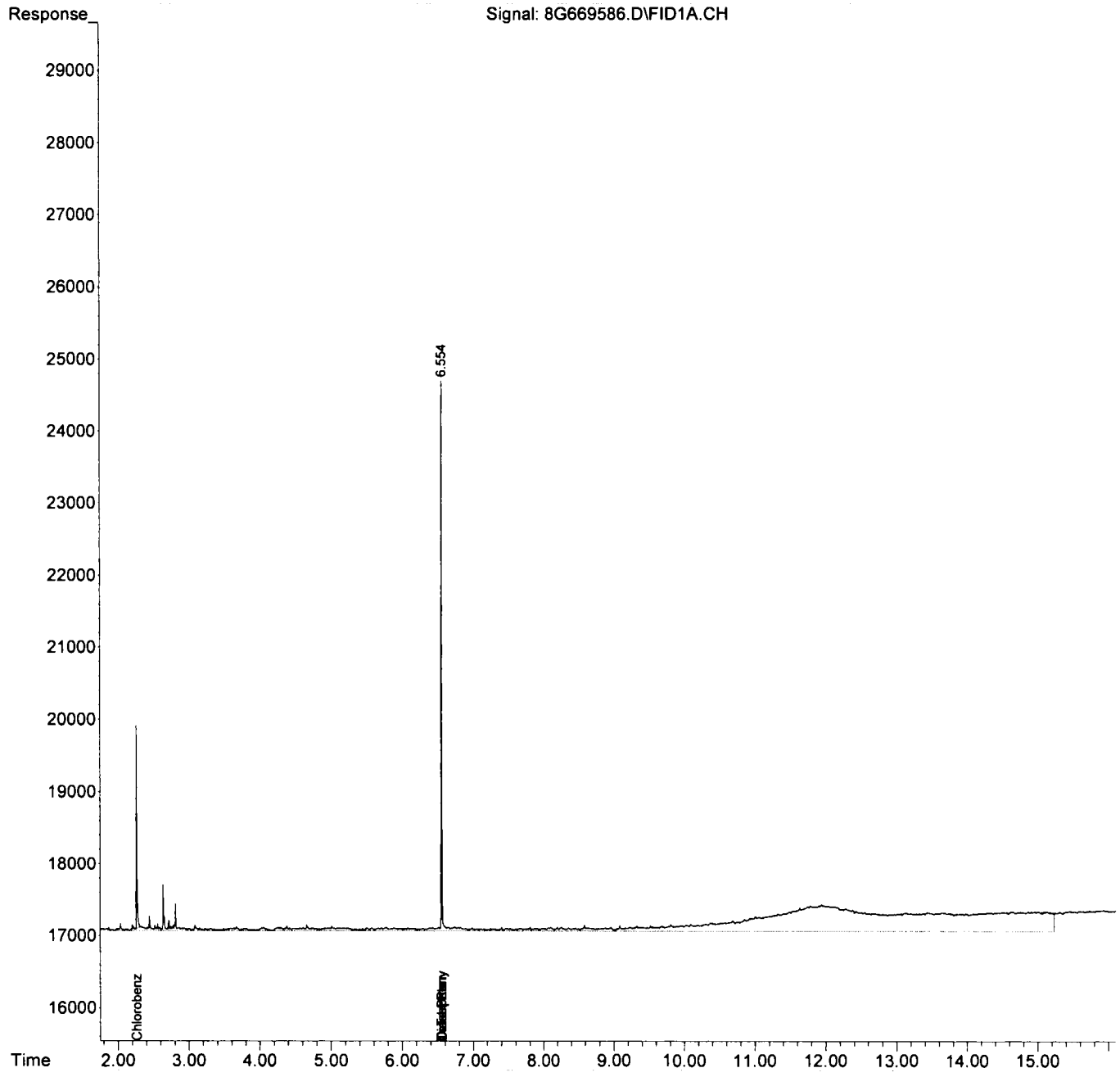
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669586.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:57:41
Operator : AH/ABM/RR/KT/JR
Sample : AD34490-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 11:18:46 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34490-002
Client Id: SB-68 (6-8')
Data File: 8G669587.D
Analysis Date: 11/18/22 15:23
Date Rec/Extracted: 11/11/22-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	75	U				

Worksheet #: 666627

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669587.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 15:23:29
Operator : AH/ABM/RR/KT/JR
Sample : AD34490-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 11:19:40 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.260	18497	10.524		
23)	O-Terphenyl	6.549	44922	15.719		
24)d	Diesel Range Organics(T	6.548f	171475	73.561		m
25)t	Total Petroleum Hydroca	6.548f	1016942	446.250		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

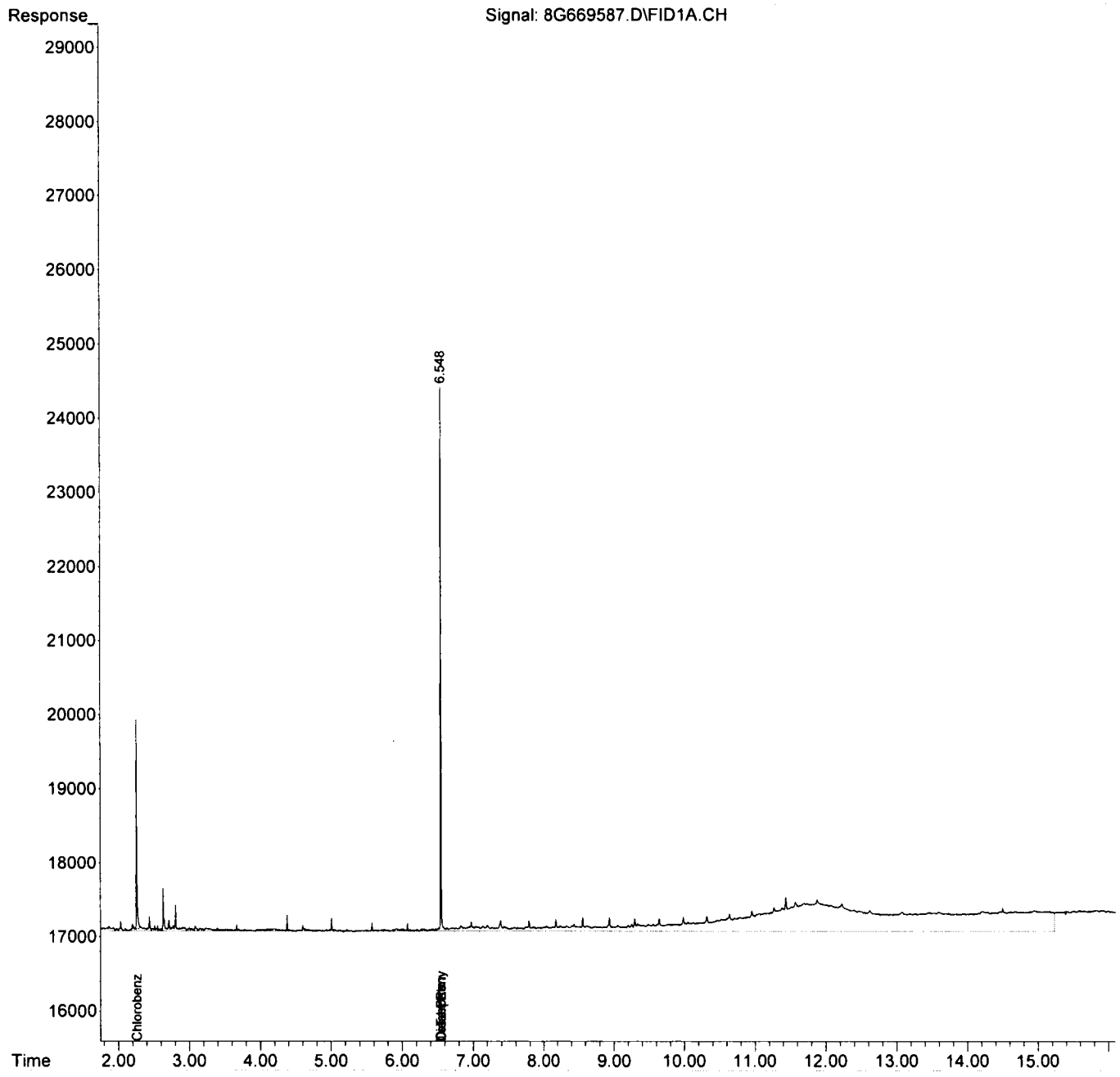
KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669587.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 15:23:29
Operator : AH/ABM/RR/KT/JR
Sample : AD34490-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 11:19:40 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103654
Client Id:
Data File: 8G669584.D
Analysis Date: 11/18/22 14:06
Date Rec/Extracted: NA-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 666627

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669584.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:06:43
Operator : AH/ABM/RR/KT/JR
Sample : SMB103654
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 16:29:30 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	22444	12.770		
23)	O-Terphenyl	6.696f	49965	17.483		
24)d	Diesel Range Organics(T	6.696f	236042	101.260		m
25)t	Total Petroleum Hydroca	6.696f	1032520	453.086		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

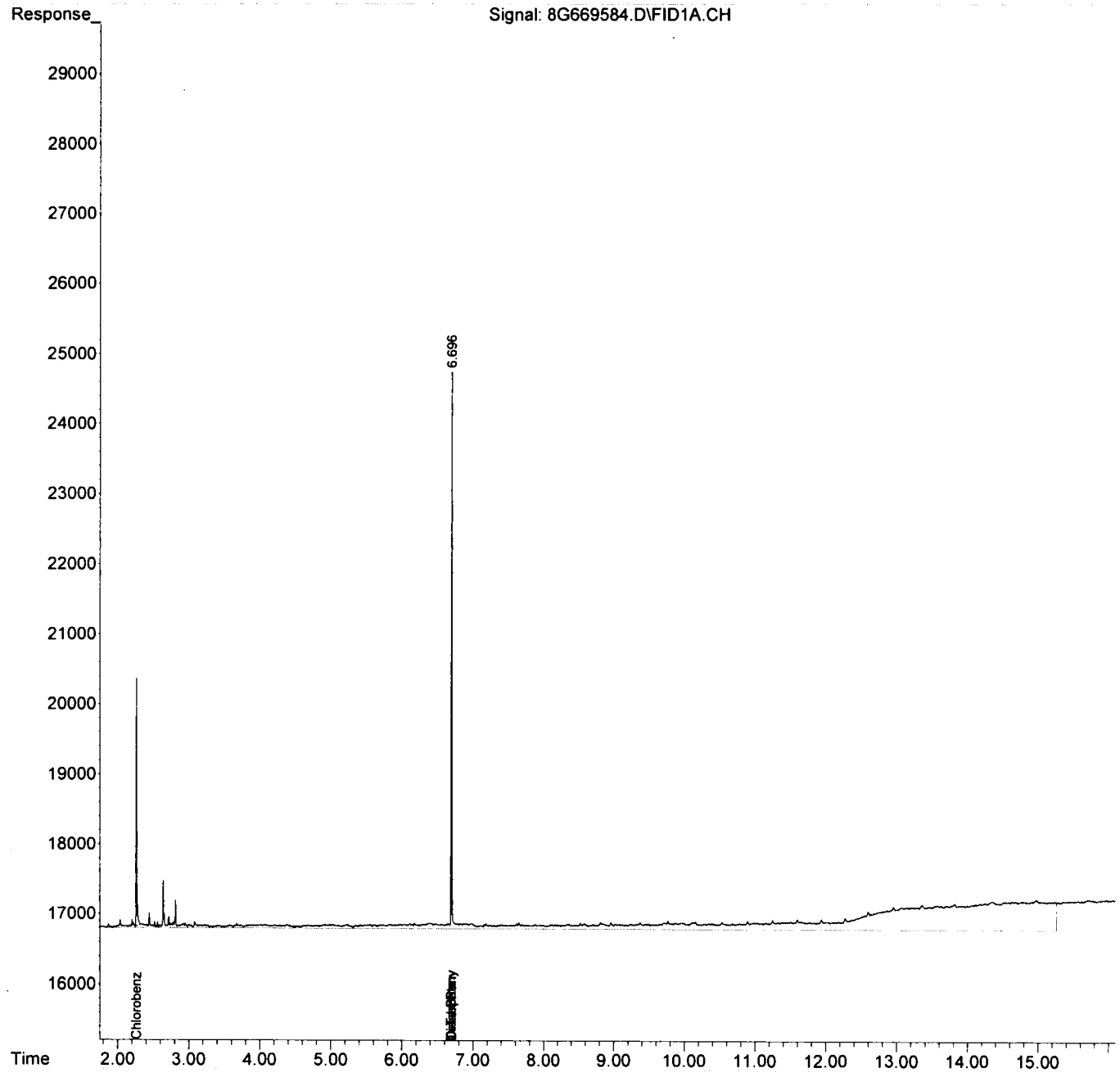
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669584.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:06:43
Operator : AH/ABM/RR/KT/JR
Sample : SMB103654
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 16:29:30 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669583.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 12:19:15
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 14:04:37 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	9.436f	92944	39.872		m
25)t	Total Petroleum Hydroca	12.082f	978233	429.264		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

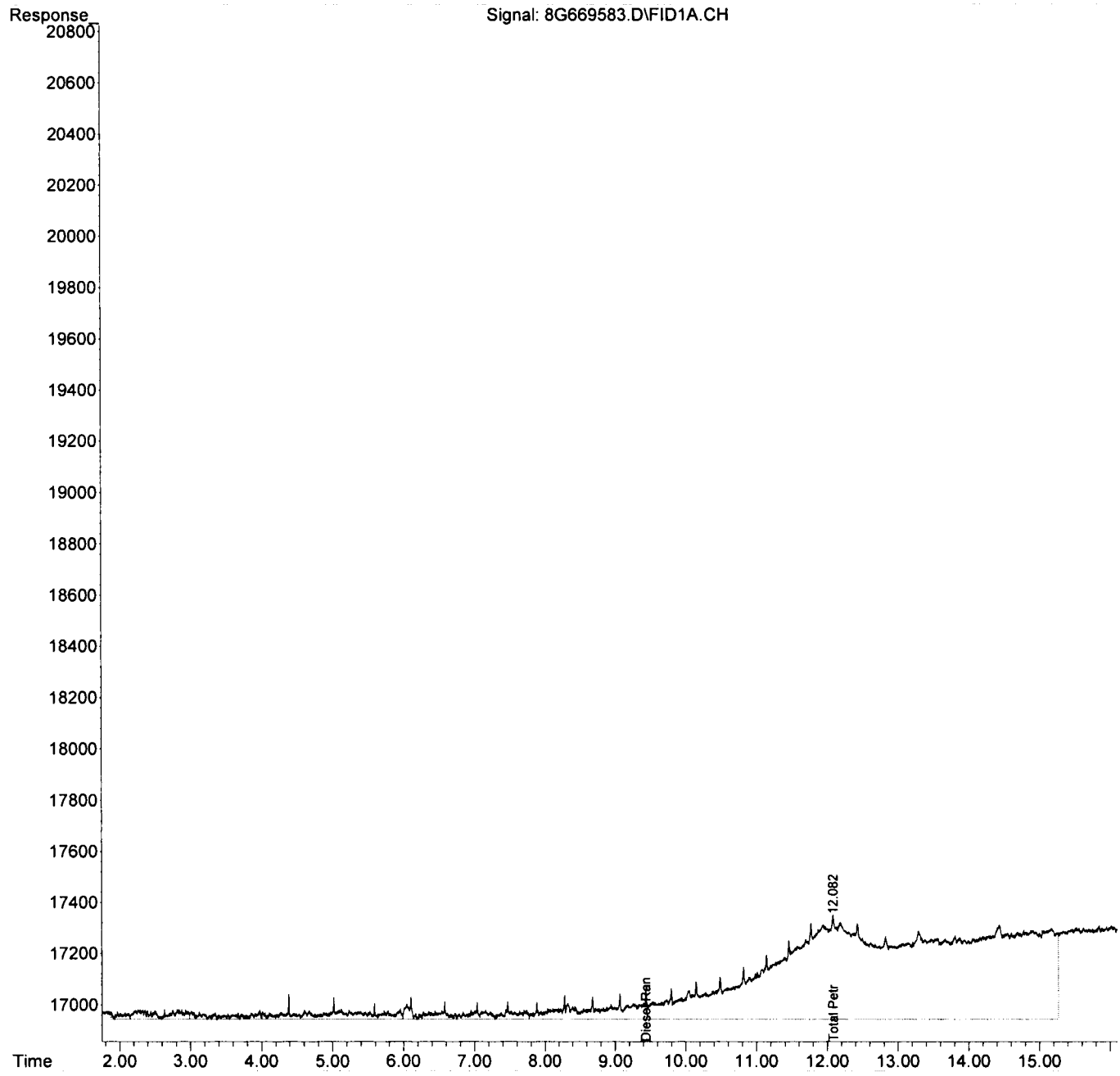
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669583.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 12:19:15
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 14:04:37 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669584.D	SMB103654	S	11/18/22 14:06	1		64	87				
8G669586.D	AD34490-001	S	11/18/22 14:57	1		52	78				
8G669587.D	AD34490-002	S	11/18/22 15:23	1		53	79				
8G669566.D	SMB103654(MS)	S	11/17/22 15:24	1		72	106				
8G669568.D	AD34426-001(MS)	S	11/17/22 16:09	1		63	80				
8G669569.D	AD34426-001(MSD)	S	11/17/22 16:31	1		69	102				
8G669593.D	AD34426-001(R)	S	11/21/22 09:43	1		47	73				
8G669607.D	SMB103688(MS)	S	11/22/22 12:50	1		38	88				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669566.D	SMB103654(MS)	11/17/2022 3:24:12 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2641.97	0	3000	88	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669568.D	AD34426-001(MS)	11/17/2022 4:09:14 PM
Non Spike(If applicable):	8G669593.D	AD34426-001(R)	11/21/2022 9:43:37 AM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2136.41	0	3000	71	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669569.D	AD34426-001(MSD)	11/17/2022 4:31:54 PM
Non Spike(If applicable):	8G669593.D	AD34426-001(R)	11/21/2022 9:43:37 AM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2688.21	0	3000	90	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669569.D	AD34426-001(MSD)	11/17/2022 4:31:54 PM
Duplicate(If applicable):	8G669568.D	AD34426-001(MS)	11/17/2022 4:09:14 PM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	2688.21	2136.41	23	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103688

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669607.D	SMB103688(MS)	11/22/2022 12:50:51 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2303.19	0	3000	77	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103654
Blank Data File: 8G669584.D
Matrix: Soil

Blank Analysis Date: 11/18/22 14:06
Blank Extraction Date: 11/17/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34490-001	8G669586.D	11/18/22 14:57
AD34490-002	8G669587.D	11/18/22 15:23
AD34426-001(MS)	8G669568.D	11/17/22 16:09
AD34426-001(MSD	8G669569.D	11/17/22 16:31
SMB103654(MS)	8G669566.D	11/17/22 15:24

FORM 4
Blank Summary

Blank Number: SMB103688
Blank Data File: 8G669592.D
Matrix: Soil

Blank Analysis Date: 11/21/22 09:21
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
SMB103688(MS)	8G669607.D	11/22/22 12:50
AD34426-001(R)	8G669593.D	11/21/22 09:43

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669147.D	INST BLK(MECL2)	10/10/22 08:56	Aqueous					
8G669148.D	TPH@20PPM	10/10/22 11:55	Aqueous					
8G669149.D	TPH@500PPM	10/10/22 12:39	Aqueous					
8G669150.D	CALTPH@100PPM	10/10/22 13:05	Aqueous	8G66915	6.5864	0.0623		
8G669151.D	CALTPH@40PPM	10/10/22 13:28	Aqueous	8G66915	6.5732	0.1383		
8G669152.D	TPH@20PPM	10/10/22 13:50	Aqueous	8G66915	6.5825	0.003		
8G669153.D	CALTPH@10PPM	10/10/22 14:13	Aqueous	8G66915	6.5752	0.1079		
8G669154.D	CALTPH@5PPM	10/10/22 14:36	Aqueous	8G66915	6.5823	0		
8G669155.D	CALTPH@500PPM	10/10/22 14:59	Aqueous	8G66915	6.5880	0.0866		
8G669156.D	CALTPH@20PPM	10/10/22 15:21	Aqueous	8G66915	6.5861	0.0577		
8G669157.D	ICVTPH@20PPM	10/10/22 15:44	Aqueous	8G66915	6.5818	0.0076		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669562.D	INST BLK	11/17/22 13:39	Aqueous					
8G669563.D	CALTPH@20PPM	11/17/22 14:02	Aqueous	8G66956	6.5672	0		
8G669564.D	INST BLK	11/17/22 14:39	Aqueous	8G66956	0.0000	200		
8G669565.D	SMB103654	11/17/22 15:01	Soil	8G66956	6.5442	0.3508		
8G669566.D	SMB103654(MS)	11/17/22 15:24	Soil	8G66956	6.5530	0.2165		
8G669567.D	AD34426-001	11/17/22 15:46	Soil	8G66956	6.5517	0.2363		
8G669568.D	AD34426-001(MS)	11/17/22 16:09	Soil	8G66956	6.5494	0.2714		
8G669569.D	AD34426-001(MSD)	11/17/22 16:31	Soil	8G66956	6.5414	0.3936		
8G669570.D	AD34426-002	11/17/22 16:54	Soil	8G66956	6.5349	0.4931		
8G669571.D	AD34426-003	11/17/22 17:17	Soil	8G66956	6.5263	0.6247		
8G669572.D	AD34426-004	11/17/22 17:39	Soil	8G66956	6.5243	0.6554		
8G669573.D	AD34426-005	11/17/22 18:02	Soil	8G66956	6.5442	0.3508		
8G669574.D	AD34426-006	11/17/22 18:24	Soil	8G66956	6.5380	0.4456		
8G669575.D	AD34488-001	11/17/22 18:47	Soil	8G66956	6.5371	0.4594		
8G669576.D	AD34488-002	11/17/22 19:10	Soil	8G66956	6.5323	0.5328		
8G669577.D	CAL TPH@20PPM	11/17/22 19:32	Soil	8G66956	6.5294	0.5773		
8G669578.D	CAL TPH@20PPM	11/17/22 19:55	Soil	8G66956	6.5267	0.6186		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669581.D	INST BLK	11/18/22 10:34	Aqueous					
8G669582.D	CALTPH@20PPM	11/18/22 11:40	Aqueous	8G66958	6.5313	0		
8G669583.D	INST BLK	11/18/22 12:19	Aqueous	8G66958	0.0000	200		
8G669584.D	SMB103654	11/18/22 14:06	Soil	8G66958	6.6963	2.4948		
8G669585.D	AD34453-001	11/18/22 14:31	Soil	8G66958	6.5536	0.3408		
8G669586.D	AD34490-001	11/18/22 14:57	Soil	8G66958	6.5546	0.3561		
8G669587.D	AD34490-002	11/18/22 15:23	Soil	8G66958	6.5487	0.2661		
8G669588.D	CALTPH@20PPM	11/18/22 16:33	Aqueous	8G66958	6.6583	1.9258		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669589.D	INST BLK	11/21/22 08:14	Aqueous					
8G669590.D	CALTPH@20PPM	11/21/22 08:36	Aqueous	8G66959	6.5579	0		
8G669591.D	INST BLK	11/21/22 08:58	Aqueous	8G66959	0.0000	200		
8G669592.D	SMB103688	11/21/22 09:21	Soil	8G66959	6.5473	0.1618		
8G669593.D	AD34426-001(R)	11/21/22 09:43	Soil	8G66959	6.5419	0.2443		
8G669594.D	AD34426-003(R)	11/21/22 10:06	Soil	8G66959	6.5448	0.2		
8G669595.D	AD34564-004(R)	11/21/22 10:28	Soil	8G66959	6.5511	0.1037		
8G669596.D	AD34613-001	11/21/22 10:50	Soil	8G66959	6.5357	0.3391		
8G669597.D	AD34613-002	11/21/22 11:13	Soil	8G66959	6.5358	0.3376		
8G669598.D	AD34613-003	11/21/22 11:35	Soil	8G66959	6.5339	0.3666		
8G669599.D	AD34613-004	11/21/22 11:58	Soil	8G66959	6.5410	0.258		
8G669600.D	AD34613-005	11/21/22 12:20	Soil	8G66959	6.5388	0.2917		
8G669601.D	AD34613-006	11/21/22 12:43	Soil	8G66959	6.5413	0.2535		
8G669602.D	CALTPH@20PPM	11/21/22 13:12	Soil	8G66959	6.5891	0.4746		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669603.D	INST BLK	11/22/22 09:02	Aqueous					
8G669604.D	CALTPH@20PPM	11/22/22 11:34	Aqueous	8G66960	6.5878	0		
8G669605.D	INST BLK	11/22/22 11:59	Aqueous	8G66960	0.0000	200		
8G669606.D	SMB103688	11/22/22 12:25	Soil	8G66960	6.5337	0.8246		
8G669607.D	SMB103688(MS)	11/22/22 12:50	Soil	8G66960	6.5266	0.9333		
8G669608.D	WMB103682	11/22/22 13:17	Aqueous	8G66960	6.5286	0.9027		
8G669609.D	WMB103682(MS)	11/22/22 13:42	Aqueous	8G66960	6.5262	0.9395		
8G669610.D	AD34533-001	11/22/22 14:08	Aqueous	8G66960	6.5301	0.8797		
8G669611.D	AD34533-002	11/22/22 14:34	Aqueous	8G66960	6.5262	0.9395		
8G669612.D	AD34533-001(MS)	11/22/22 14:59	Aqueous	8G66960	6.5427	0.687		
8G669613.D	AD34533-001(MSD)	11/22/22 15:47	Aqueous	8G66960	6.6246	0.5571		
8G669614.D	AD34593-001	11/22/22 16:12	Soil	8G66960	6.5607	0.4122		
8G669615.D	CALTPH@20PPM	11/22/22 16:38	Aqueous	8G66960	6.5530	0.5296		
8G669616.D	INST BLK	11/22/22 17:03	Aqueous	8G66961	0.0000	200		
8G669617.D	AD34609-003	11/22/22 17:29	Soil	8G66961	6.5456	0.113		
8G669618.D	AD34609-003(MS)	11/22/22 17:54	Soil	8G66961	6.5342	0.2873		
8G669619.D	AD34609-003(MSD)	11/22/22 18:20	Soil	8G66961	6.5285	0.3746		
8G669620.D	AD34609-004	11/22/22 18:45	Soil	8G66961	6.5365	0.2521		
8G669621.D	AD34609-005	11/22/22 19:10	Soil	8G66961	6.5231	0.4573		
8G669622.D	AD34609-006	11/22/22 19:36	Soil	8G66961	6.5258	0.4159		
8G669623.D	TEST	11/22/22 20:01	Aqueous	8G66961	0.0000	200		
8G669624.D	CALTPH@20PPM	11/22/22 20:26	Aqueous	8G66961	6.5217	0.4788		
8G669625.D	CALTPH@20PPM	11/22/22 20:52	Aqueous	8G66961	6.5127	0.6169		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

2111105 0068

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

2111105 0069

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669154.D	CALTPH@5PPM	10/10/22 14:36	2	8G669153.D	CALTPH@10PPM	10/10/22 14:13
3	8G669156.D	CALTPH@20PPM	10/10/22 15:21	4	8G669151.D	CALTPH@40PPM	10/10/22 13:28
5	8G669150.D	CALTPH@100PPM	10/10/22 13:05	6	8G669155.D	CALTPH@500PPM	10/10/22 14:59

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2114	0.2042	0.2260	0.2271	0.2282	0.2266	----	----	0.221	1.98	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.2240	0.2129	0.2394	0.2423	0.2436	0.2399	----	----	0.234	2.55	1.00	1.00	5.3	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2261	0.2159	0.2472	0.2495	0.2517	0.2463	----	----	0.240	3.09	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2391	0.2205	0.2650	0.2714	0.2715	0.2636	----	----	0.255	4.03	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.2460	0.2300	0.2752	0.2814	0.2820	0.2707	----	----	0.264	4.84	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2627	0.2384	0.2852	0.2907	0.2911	0.2774	----	----	0.274	5.55	0.999	1.00	7.5	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2852	0.2543	0.2933	0.3490	0.3280	0.3007	----	----	0.302	5.89	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2363	0.2172	0.2883	0.2886	0.2658	0.2437	----	----	0.257	5.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2799	0.2430	0.3031	0.3121	0.3129	0.2972	----	----	0.291	6.22	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2591	0.2170	0.2699	0.2743	0.2745	0.2580	----	----	0.259	6.25	0.999	1.00	8.4	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2897	0.2465	0.3103	0.3195	0.3201	0.3026	----	----	0.298	6.87	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2961	0.2511	0.3118	0.3243	0.3254	0.3073	----	----	0.303	7.50	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3020	0.2498	0.3205	0.3337	0.3333	0.3131	----	----	0.309	8.12	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3194	0.2453	0.3196	0.3346	0.3352	0.3140	----	----	0.311	8.72	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3124	0.2530	0.3236	0.3386	0.3384	0.3160	----	----	0.314	9.32	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.3229	0.2510	0.3281	0.3436	0.3421	0.3179	----	----	0.318	9.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3418	0.2598	0.3308	0.3523	0.3495	0.3206	----	----	0.326	10.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3248	0.2482	0.3267	0.3456	0.3402	0.3083	----	----	0.316	11.03	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3222	0.2441	0.3570	0.3373	0.3350	0.2980	----	----	0.316	11.58	0.996	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2742	0.2282	0.3477	0.3229	0.3143	0.2795	----	----	0.295	12.85	0.999	1.00	14	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1807	0.1729	0.1967	0.2011	0.2025	0.1940	----	----	0.191	2.28	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.3260	0.2729	0.3371	0.3440	0.3420	0.3255	----	----	0.325	6.59	1.00	1.00	8.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2734	0.2371	0.2933	0.3052	0.3023	0.2854	----	----	0.283	3.09	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2788	0.2365	0.2984	0.3069	0.3041	0.2851	----	----	0.285	1.98	1.00	1.00	9.2	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2828	0.2388	0.2997	0.3105	0.3078	0.2886	----	----	0.288	2.55	1.00	1.00	9.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.23 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669563.D			8G669577.D			8G669582.D			8G669588.D			8G669590.D				
Method:				8015			8015			8015			8015			8015				
Calibration Name:				CALTPH@20PPM			CAL TPH@20PPM			CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM				
Calibration Date/Time				11/17/22 14:02			11/17/22 19:32			11/18/22 11:40			11/18/22 16:33			11/21/22 08:36				
				Conc			Conc			Conc			Conc			Conc				
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff		
C8	20	1	0	22.67	20	13.4	20.89	20	4.4	22.74	20	13.7	22.62	20	13.1	21.05	20	5.2		
C9	20	1	0	21.92	20	9.6	20.01	20	0.1	21.5	20	7.5	21.18	20	5.9	20.27	20	1.4		
C10	20	1	0	21.34	20	6.7	19.48	20	2.6	20.9	20	4.5	20.38	20	1.9	19.35	20	3.2		
C12	20	1	0	20.63	20	3.1	18.67	20	6.6	20.58	20	2.9	20.54	20	2.7	19.12	20	4.4		
C14	20	1	0	20.55	20	2.7	18.95	20	5.2	21.16	20	5.8	20.78	20	3.9	18.82	20	5.9		
C16	20	1	0	20.02	20	0.1	18.38	20	8.1	20.95	20	4.8	21.44	20	7.2	18.95	20	5.2		
C17	20	1	0	18.79	20	6.0	18.05	20	9.8	22.82	20	14.1	20.18	20	0.9	17.72	20	11.4		
Pristane	20	1	0	21.43	20	7.2	19.22	20	3.9	21.75	20	8.8	20.29	20	1.5	21.95	20	9.8		
C18	20	1	0	19.88	20	0.6	17.92	20	10.4	20.14	20	0.7	19.97	20	0.2	17.74	20	11.3		
Phytane	20	1	0	20.3	20	1.5	19.29	20	3.5	22.34	20	11.7	22.01	20	10.1	20.12	20	0.6		
C20	20	1	0	19.66	20	1.7	18.12	20	9.4	20.99	20	4.9	21.08	20	5.4	18.17	20	9.2		
C22	20	1	0	19.36	20	3.2	17.97	20	10.2	21.06	20	5.3	21.11	20	5.6	18.17	20	9.2		
C24	20	1	0	19.35	20	3.2	17.87	20	10.7	20.59	20	3.0	21.54	20	7.7	18.06	20	9.7		
C26	20	1	0	19.14	20	4.3	17.39	20	13.1	21.17	20	5.9	21.56	20	7.8	17.5	20	12.5		
C28	20	1	0	18.82	20	5.9	17.18	20	14.1	21.18	20	5.9	21.21	20	6.0	17.36	20	13.2		
C30	20	1	0	18.86	20	5.7	16.97	20	15.2	21.77	20	8.9	21.4	20	7.0	16.89	20	15.6		
C32	20	1	0	18.18	20	9.1	15.85	20	20.8*	20.4	20	2.0	20.92	20	4.6	16.05	20	19.8		
C34	20	1	0	16.79	20	16.1	14.86	20	25.7*	20.47	20	2.3	20.59	20	3.0	14.67	20	26.7*		
C36	20	1	0	15.31	20	23.5*	13.51	20	32.5*	21.24	20	6.2	21.88	20	9.4	13.3	20	33.5*		
C40	20	1	0	15.87	20	20.7*	12.32	20	38.4*	19.64	20	1.8	21.57	20	7.8	11.84	20	40.8*		
Chlorobenzene	20	1	0	22.12	20	10.6	20.6	20	3.0	21.32	20	6.6	21.82	20	9.1	20.03	20	0.2		
O-Terphenyl	20	1	0	20.03	20	0.2	18.48	20	7.6	21.34	20	6.7	21.28	20	6.4	18.87	20	5.6		
Average Difference	20	1	0			7.0			11.6			5.9			5.6			11.6		

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669602.D			8G669604.D			8G669615.D									
Method:				8015			8015			8015									
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM									
Calibration Date/Time				11/21/22 13:12			11/22/22 11:34			11/22/22 16:38									
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	20.76	20	3.8	21.61	20	8.1	19.94	20	0.3						
C9	20	1	0	19.85	20	0.7	20.76	20	3.8	18.58	20	7.1						
C10	20	1	0	19.41	20	3.0	20.57	20	2.8	17.8	20	11.0						
C12	20	1	0	18.76	20	6.2	20.33	20	1.7	17.55	20	12.3						
C14	20	1	0	18.92	20	5.4	21.55	20	7.7	18.38	20	8.1						
C16	20	1	0	17.77	20	11.2	23.05	20	15.3	18.5	20	7.5						
C17	20	1	0	15.66	20	21.7*	19.31	20	3.5	21.54	20	7.7						
Pristane	20	1	0	20.2	20	1.0	19.43	20	2.8	16.88	20	15.6						
C18	20	1	0	17.16	20	14.2	21.29	20	6.5	17.45	20	12.8						
Phytane	20	1	0	19.75	20	1.3	20.54	20	2.7	20.57	20	2.8						
C20	20	1	0	18.12	20	9.4	22.3	20	11.5	19.13	20	4.4						
C22	20	1	0	17.75	20	11.3	22.77	20	13.9	19.02	20	4.9						
C24	20	1	0	17.66	20	11.7	22.19	20	11.0	19.19	20	4.0						
C26	20	1	0	17.16	20	14.2	22.09	20	10.5	19.88	20	0.6						
C28	20	1	0	17	20	15.0	21.84	20	9.2	19.7	20	1.5						
C30	20	1	0	16.66	20	16.7	21.61	20	8.1	19.99	20	0.1						
C32	20	1	0	15.79	20	21.1*	22.03	20	10.2	19.73	20	1.4						
C34	20	1	0	14.51	20	27.5*	20.53	20	2.7	19.41	20	3.0						
C36	20	1	0	13.19	20	34.1*	18.27	20	8.6	18.61	20	6.9						
C40	20	1	0	12.3	20	38.5*	16.34	20	18.3	16.98	20	15.1						
Chlorobenzene	20	1	0	20.15	20	0.7	20.72	20	3.6	18.56	20	7.2						
O-Terphenyl	20	1	0	18.71	20	6.5	20.4	20	2.0	19.1	20	4.5						
Average Difference	20	1	0			12.5			7.8			6.9						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
Chlorobenzene	1	0										
C44	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.58	(6.54 - 6.62)	6.57	(6.53 - 6.61)	6.53	(6.49 - 6.57)	6.56	(6.52 - 6.60)
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

Form7
RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
Chlorobenzene	1	0										
C44	1	0										
O-Terphenyl	1	0	6.59	(6.55 - 6.63)								
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD34490-001
Client Id: SB-69 (2-4')
Data File: 13M26144.D
Analysis Date: 11/11/22 19:45
Date Rec/Extracted: 11/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.82g:10ml
Final Vol: NA
Dilution: 85.9
Solids: 83

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	26	U				

Worksheet #: 666547

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26144.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 19:45
Operator : WP
Sample : AD34490-001
Misc : M,MEXT!3
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:09:46 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.688	4992	30.181		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

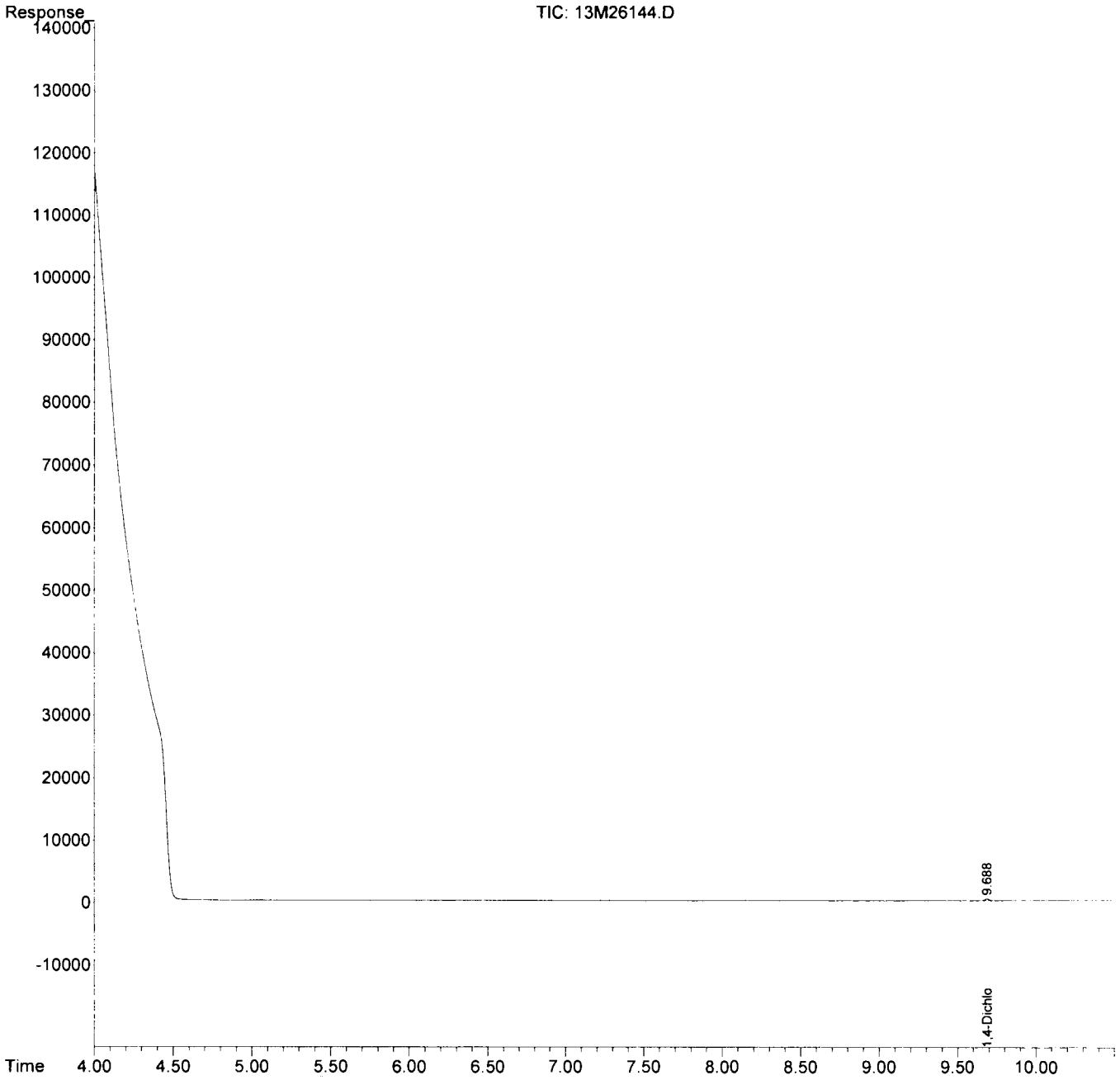
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26144.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 19:45
Operator : WP
Sample : AD34490-001
Misc : M,MEXT!3
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:09:46 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD34490-002
Client Id: SB-68 (6-8')
Data File: 13M26145.D
Analysis Date: 11/11/22 20:00
Date Rec/Extracted: 11/11/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.54g:10ml
Final Vol: NA
Dilution: 90.3
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	28	U				

Worksheet #: 666547

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26145.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 20:00
Operator : WP
Sample : AD34490-002
Misc : M,MEXT!3
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:15:16 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

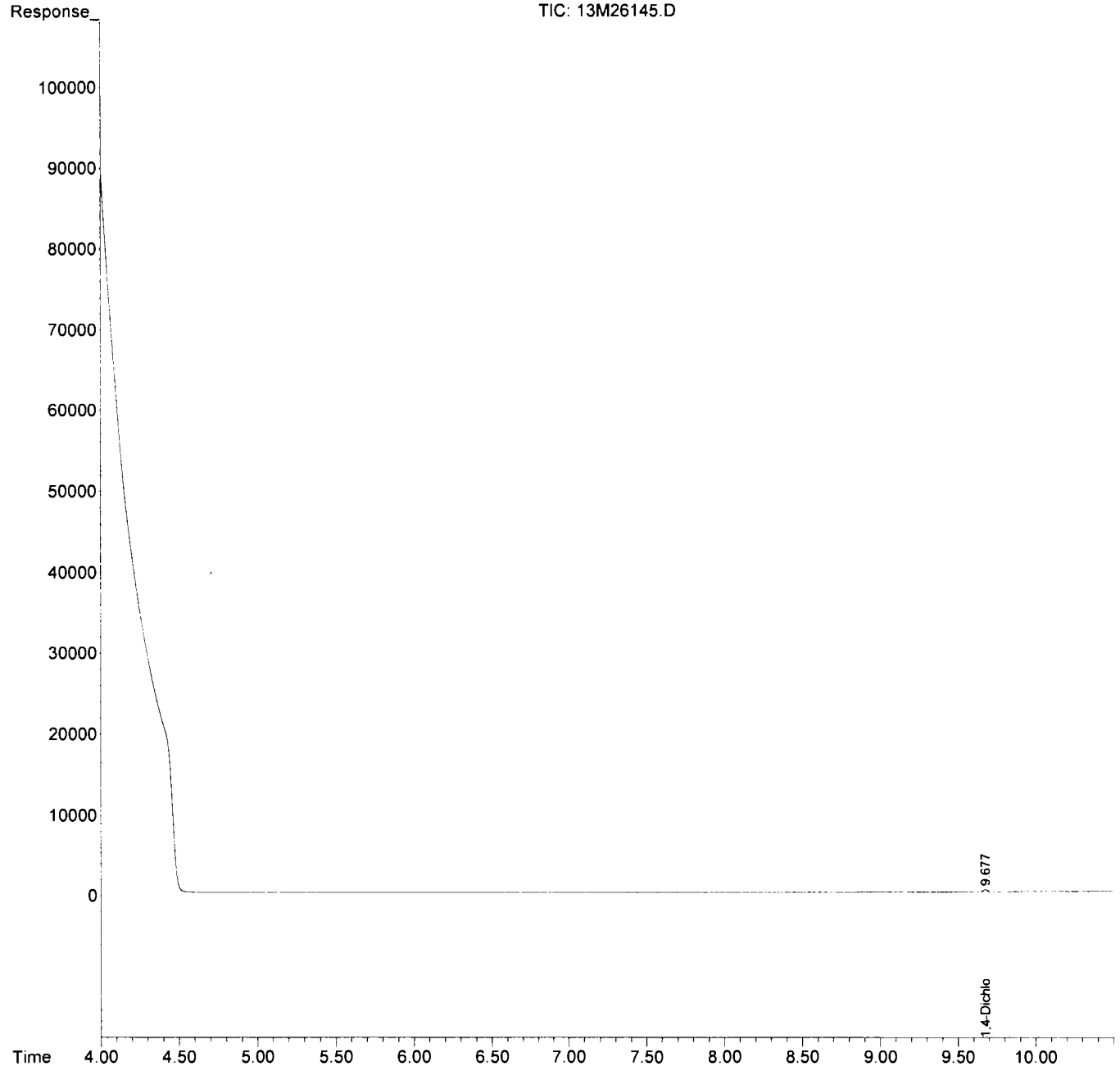
	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.677	5880	35.550		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26145.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 20:00
Operator : WP
Sample : AD34490-002
Misc : M,MEXT!3
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:15:16 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M26142.D
Analysis Date: 11/11/22 19:05
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 666547

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26142.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 19:05
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:09:05 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.686	2915	17.627		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

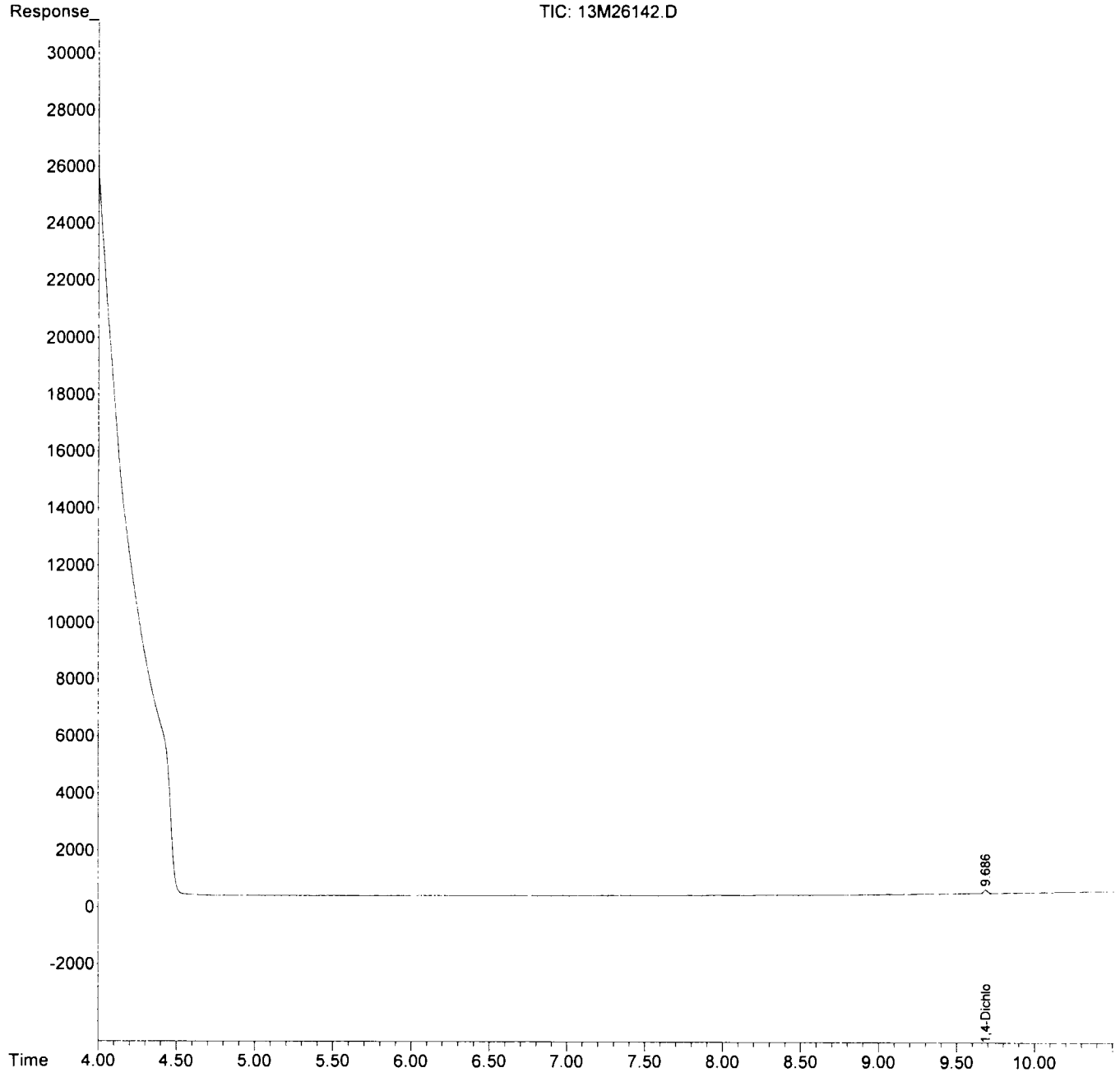
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26142.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 19:05
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:09:05 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M26142.D	DAILY BLANK	M	11/11/22 19:05	1		59					
13M26144.D	AD34490-001	M	11/11/22 19:45	1		101					
13M26145.D	AD34490-002	M	11/11/22 20:00	1		118					
13M26148.D	AD34490-001(MS)	M	11/11/22 20:46	1		141					
13M26149.D	AD34490-001(MSD)	M	11/11/22 21:01	1		125					
13M26156.D	MBS105221	M	11/11/22 22:51	1		129					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105221

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26156.D	MBS105221	11/11/2022 10:51:00 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1796.88**	**0**	**2000**	**90**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105221

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26148.D	AD34490-001(MS)	11/11/2022 8:46:00 PM
Non Spike(If applicable):	13M26144.D	AD34490-001	11/11/2022 7:45:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2157.91**	**0**	**2000**	**108**	**11**	**181**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26149.D	AD34490-001(MSD)	11/11/2022 9:01:00 PM
Non Spike(If applicable):	13M26144.D	AD34490-001	11/11/2022 7:45:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1950.21**	**0**	**2000**	**98**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105221

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26149.D	AD34490-001(MSD)	11/11/2022 9:01:00 PM
Duplicate(If applicable):	13M26148.D	AD34490-001(MS)	11/11/2022 8:46:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**1950.21**	**2157.91**	**10**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M26142.D
Matrix: Methanol

Blank Analysis Date: 11/11/22 19:05
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34490-001	13M26144.D	11/11/22 19:45
AD34490-002	13M26145.D	11/11/22 20:00
MBS105221	13M26156.D	11/11/22 22:51
AD34490-001(MSD	13M26149.D	11/11/22 21:01
AD34490-001(MS)	13M26148.D	11/11/22 20:46

Form 5

Method: EPA 8015D

Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26015.D	CAL@ 250 PPB	10/24/22 20:14	Aqueous	13M2602	9.6659	0.1675		
13M26016.D	CAL@ 500 PPB	10/24/22 20:29	Aqueous	13M2602	9.6742	0.0816		
13M26017.D	CAL@ 750 PPB	10/24/22 20:44	Aqueous	13M2602	9.6732	0.092		
13M26018.D	CAL@ 1000 PPB	10/24/22 21:05	Aqueous	13M2602	9.6742	0.0816		
13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	Aqueous	13M2602	9.6740	0.0837		
13M26020.D	CAL@ 2000 PPB	10/24/22 21:37	Aqueous	13M2602	9.6750	0.0734		
13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	Aqueous	13M2602	9.6821	0		
13M26022.D	6000 PPB	10/24/22 22:08	Aqueous	13M2602	9.6832	0.0114		
13M26025.D	ICV	10/24/22 23:06	Aqueous	13M2602	9.6821	0		
13M26026.D	CAL @ 2000 PPB	10/24/22 23:21	Aqueous	13M2602	9.6729	0.0951		
13M26028.D	DAILY BLANK	10/24/22 23:56	Methanol	13M2602	9.6806	0.0796		
13M26029.D	DAILY BLANK	10/25/22 00:47	Aqueous	13M2602	9.6808	0.0816		
13M26030.D	MDL @ 250 PPB	10/25/22 01:02	Aqueous	13M2602	9.6706	0.0238		
13M26031.D	MDL @ 250 PPB	10/25/22 01:17	Aqueous	13M2602	9.6710	0.0197		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26137.D	CAL @ 2000 PPB	11/11/22 17:43	Aqueous	13M2613	9.7060	0		
13M26140.D	BLK	11/11/22 18:30	Methanol	13M2613	9.6850	0.2166		
13M26141.D	DAILY BLANK	11/11/22 18:48	Aqueous	13M2613	9.6982	0.0804		
13M26142.D	DAILY BLANK	11/11/22 19:05	Methanol	13M2613	9.6857	0.2094		
13M26143.D	AD34453-001	11/11/22 19:25	Methanol	13M2613	9.6874	0.1918		
13M26144.D	AD34490-001	11/11/22 19:45	Methanol	13M2613	9.6879	0.1867		
13M26145.D	AD34490-002	11/11/22 20:00	Methanol	13M2613	9.6771	0.2982		
13M26146.D	AD34408-010	11/11/22 20:15	Methanol	13M2613	9.6784	0.2848		
13M26147.D	AD34408-009	11/11/22 20:30	Methanol	13M2613	9.6801	0.2672		
13M26148.D	AD34490-001(MS)	11/11/22 20:46	Methanol	13M2613	9.6825	0.2424		
13M26149.D	AD34490-001(MSD)	11/11/22 21:01	Methanol	13M2613	9.6790	0.2786		
13M26150.D	STD	11/11/22 21:16	Methanol	13M2613	9.6760	0.3096		
13M26151.D	MBS105212	11/11/22 21:31	Aqueous	13M2613	9.6751	0.3189		
13M26152.D	BLK	11/11/22 21:47	Aqueous	13M2613	0.0000	200		
13M26153.D	BLK	11/11/22 22:05	Aqueous	13M2613	0.0000	200		
13M26154.D	34014-004(10X)	11/11/22 22:21	Aqueous	13M2613	9.6772	0.2972		
13M26155.D	34201-003(80uL)	11/11/22 22:36	Methanol	13M2613	9.6816	0.2517		
13M26156.D	MBS105221	11/11/22 22:51	Methanol	13M2613	9.6779	0.2899		
13M26157.D	2000 PPB	11/11/22 23:08	Aqueous	13M2613	9.6868	0.198		
13M26158.D	AD34451-010	11/11/22 23:24	Methanol	13M2613	9.6788	0.2806		
13M26159.D	AD34451-011	11/11/22 23:39	Methanol	13M2613	9.6790	0.2786		
13M26160.D	AD34451-012	11/11/22 23:54	Methanol	13M2613	9.6759	0.3106		
13M26161.D	AD34451-013	11/12/22 00:10	Methanol	13M2613	9.6758	0.3116		
13M26162.D	AD34451-014	11/12/22 00:25	Methanol	13M2613	0.0000	200		
13M26163.D	AD34451-015	11/12/22 00:41	Methanol	13M2613	9.6805	0.2631		
13M26164.D	AD34451-016	11/12/22 00:56	Methanol	13M2613	9.6807	0.261		
13M26165.D	AD34451-017	11/12/22 01:13	Methanol	13M2613	9.6791	0.2775		
13M26167.D	CAL @ 2000 PPB	11/12/22 01:45	Aqueous	13M2613	9.6871	0.1949		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2111105 0091

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	2	13M26020.D	CAL@ 2000 PPB	10/24/22 21:37
3	13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	4	13M26018.D	CAL@ 1000 PPB	10/24/22 21:05
5	13M26017.D	CAL@ 750 PPB	10/24/22 20:44	6	13M26016.D	CAL@ 500 PPB	10/24/22 20:29
7	13M26015.D	CAL@ 250 PPB	10/24/22 20:14				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	----	0.0193	0.0169	0.0162	0.0133	0.0191	0.0141	----	0.0165	9.71	-1	-1	15		30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0003	0.0003	0.0004	0.0003	0.0002	0.0003	0.0004	----	0.000360	5.60	0.990	0.994	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1.2.4-Trimethylbenzene	1	0	Avg	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	----	0.000460	9.50	0.989	0.999	9.5	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0264	0.0251	0.0264	0.0279	0.0268	0.0309	0.0260	----	0.0271	8.72	0.998	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.09 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M26137.D			13M26167.D													
Method:			8015			8015													
Calibration Name:			CAL @ 2000 PPB			CAL @ 2000 PPB													
Calibration Date/Time			11/11/22 17:43			11/12/22 01:45													
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	2171	2000	8.6	1985	2000	0.8									

Flags/Notes: ** - Values outside of limits for this column/run*

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 2111105**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD34490-001	SB-69 (2-4')	Soil	1	83	Percent			11/14/22	11/11/22	11/10/22
AD34490-002	SB-68 (6-8')	Soil	1	80	Percent			11/14/22	11/11/22	11/10/22

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-14084

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD34486-001	88	87.99414	Percent	1.34	15.00	13.36	11/14/22	BEENA	0.8	5
Sample	AD34271-005	90	90.39735	Percent	1.34	10.40	9.53	11/14/22	BEENA		
Sample	AD34271-037	82	82.41546	Percent	1.34	11.69	9.87	11/14/22	BEENA		
Sample	AD34271-038	85	85.11628	Percent	1.33	12.08	10.48	11/14/22	BEENA		
Sample	AD34271-043	85	84.91189	Percent	1.34	10.42	9.05	11/14/22	BEENA		
Sample	AD34271-044	76	75.55310	Percent	1.34	10.38	8.17	11/14/22	BEENA		
Sample	AD34271-045	84	84.43114	Percent	1.32	13.01	11.19	11/14/22	BEENA		
Sample	AD34271-046	78	77.97553	Percent	1.32	10.31	8.33	11/14/22	BEENA		
Sample	AD34271-050	88	88.44743	Percent	1.32	17.68	15.79	11/14/22	BEENA		
Sample	AD34271-052	93	92.88591	Percent	1.32	16.22	15.16	11/14/22	BEENA		
Sample	AD34271-053	89	89.12255	Percent	1.32	15.11	13.61	11/14/22	BEENA		
Sample	AD34271-054	91	90.54966	Percent	1.31	11.68	10.70	11/14/22	BEENA		
Sample	AD34271-056	91	90.90090	Percent	1.33	12.43	11.42	11/14/22	BEENA		
Sample	AD34486-001	87	87.28876	Percent	1.33	14.94	13.21	11/14/22	BEENA		
Sample	AD34486-002	87	87.08731	Percent	1.33	14.96	13.20	11/14/22	BEENA		
Sample	AD34486-003	86	85.94378	Percent	1.33	16.27	14.17	11/14/22	BEENA		
Sample	AD34486-004	88	87.55262	Percent	1.33	17.96	15.89	11/14/22	BEENA		
Sample	AD34486-005	90	90.46794	Percent	1.33	18.64	16.99	11/14/22	BEENA		
Sample	AD34486-006	88	87.53953	Percent	1.34	17.15	15.18	11/14/22	BEENA		
Sample	AD34486-007	86	86.12975	Percent	1.33	14.74	12.88	11/14/22	BEENA		
Sample	AD34490-001	83	82.99758	Percent	1.33	13.74	11.63	11/14/22	BEENA		

* - Indicates Failed Rpd Criteria

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-14085

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD34490-002	78	77.79247	Percent	1.34	16.47	13.11	11/14/22	BEENA	3.1	5
Sample	AD34490-002	80	80.25316	Percent	1.33	13.18	10.84	11/14/22	BEENA		
Sample	AD34496-001	85	84.81848	Percent	1.33	10.42	9.04	11/14/22	BEENA		
Sample	AD34496-002	87	87.15084	Percent	1.33	15.65	13.81	11/14/22	BEENA		
Sample	AD34496-003	86	85.80542	Percent	1.36	13.90	12.12	11/14/22	BEENA		
Sample	AD34496-004	66	66.04167	Percent	1.36	10.96	7.70	11/14/22	BEENA		
Sample	AD34496-005	86	86.16162	Percent	1.35	11.25	9.88	11/14/22	BEENA		
Sample	AD34496-006	72	71.97861	Percent	1.35	10.70	8.07	11/14/22	BEENA		
Sample	AD34496-007	86	86.39562	Percent	1.32	14.11	12.37	11/14/22	BEENA		
Sample	AD34496-008	84	83.81265	Percent	1.33	13.50	11.53	11/14/22	BEENA		
Sample	AD34496-009	63	63.32538	Percent	1.32	13.89	9.29	11/14/22	BEENA		
Sample	AD34496-010	89	89.01390	Percent	1.33	16.44	14.78	11/14/22	BEENA		
Sample	AD34496-011	87	86.99764	Percent	1.31	14.00	12.35	11/14/22	BEENA		
Sample	AD34496-012	89	88.81579	Percent	1.32	16.52	14.82	11/14/22	BEENA		
Sample	AD34496-013	89	88.83968	Percent	1.32	12.61	11.35	11/14/22	BEENA		
Sample	AD34496-014	88	87.51472	Percent	1.32	9.81	8.75	11/14/22	BEENA		
Sample	AD34496-015	81	81.17647	Percent	1.31	8.96	7.52	11/14/22	BEENA		
Sample	AD34496-016	87	86.76103	Percent	1.32	13.33	11.74	11/14/22	BEENA		
Sample	AD34496-017	80	79.79334	Percent	1.32	10.03	8.28	11/14/22	BEENA		
Sample	AD34496-018	82	82.20109	Percent	1.30	8.66	7.35	11/14/22	BEENA		
Sample	AD34496-019	87	87.13952	Percent	1.31	14.14	12.49	11/14/22	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: WMATA NBG

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei/Jeff Martineau

Received Date: 11/10/2022

Report Date: 12/13/2022

Deliverables: MDE-R

Lab ID: AD34453

Lab Project No: 2111003

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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Hampton-Clarke
WBE/DBE/SBE 800-426-9992

Form 1 Sample Results

Inorganic Spreadsheet / QC Summary

Sample Summary

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111003

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD34453-001	SB-70 (6-8)	Soil	11/7/2022	11/10/2022

HC Case Narrative

Client: Intertek-PSI
Project: WMATA NBG

HC Project: 2111003

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

12/13/22
Date

HC Executive Summary

Client: Intertek-PSI

HC Project #: 2111003

Project: WMATA NBG

NO RESULTS FOUND

HC Report of Analysis

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111003

Sample ID: SB-70 (6-8)
Lab#: AD34453-001
Matrix: Soil

Collection Date: 11/7/2022
Receipt Date: 11/10/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	73	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	88.7	mg/kg	27	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	73	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111003

Lab#: AD34453-001 **Sample ID: SB-70 (6-8)**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	11/11/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/17/22 10:46	Lynda	EPA 8015D	11/18/22 14:31	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/11/22 19:25	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/17/22 10:46	Lynda	EPA 8015D	11/18/22 14:31	AH/ABM/RR/K

Chain of Custody

2111003 0008

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 2111003

Page _____ of _____

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other: _____		Other: _____

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek-PSI
Address: 2930 Eskridge Road
1b) Email/Cell/Fax/Ph: Jeff.Martineau@intertek.com
1c) Send Invoice to: "
1d) Send Report to: "

Project Information

2a) Project: WMATA - Northern Bus Garage
2b) Project Mgr: Jeff Martineau
2c) Project Location (City/State): Washington DC
2d) Quote/PO # (If Applicable): 044100

FOR LAB USE ONLY ↓

Batch # AD24453

===> Check If Contingent ===>

<=== Check If Contingent <===

Matrix Codes

DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	7) Analysis: TPH GRO	7) Analysis: TPH DRO	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other: ONB	9) Comments
001	SB-70(6-8)	S	11/7/22	11:10		G	X	X								1	

10) Relinquished by:

Relinquished by:	Accepted by:	Date	Time
Linda Hollingsworth	FEDEX		
FEDEX	[illegible]	11/10/22	10:00

11) Sampler (print name): Linda Hollingsworth Date: 11/9/22

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:

- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:

- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 3-1

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

PROJECT MODIFICATIONS

Client: INTERTEK-VA
Project: WMATA NBG

HC Project #: 2111003

---

csmith192.168.1.137
11/10/2022 4:41:18 PM

Per Jeff, Martineau, Analyze sample for TPH to C44, DRO and GRO.

CONDITION UPON RECEIPT

Batch Number AD34453 Entered By maxwell

Date Entered 11/10/2022 10:07:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 3 1
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	No	Are samples preserved correctly? Samples for VOA not collected as Encore/Terracore.
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD34453-001	11/10/22 10:00	MAXW	0	M	Received
AD34453-001	11/10/22 10:07	MAXW	0	M	Login
AD34453-001	11/10/22 15:25	R12	1	A	NONE
AD34453-001	11/10/22 23:25	R12	1	A	NONE
AD34453-001	11/10/22 23:25	PA	1	A	mx
AD34453-001	11/11/22 08:42	BCT	1	A	SOLIDS
AD34453-001	11/11/22 12:19	R12	1	A	NONE
AD34453-001	11/17/22 10:47	LV	1	A	TPH
AD34453-001	11/17/22 10:48	R12	1	A	NONE
AD34453-001	11/10/22 10:44	R30	2	M	NONE
AD34453-001	11/10/22 15:34	AB	2	A	VOA
AD34453-001	11/10/22 15:36	AB	2	A	GRO
AD34453-001	11/10/22 18:37	R30	2	A	NONE
AD34453-001	11/10/22 18:36	R31	4	A	NONE
AD34453-001	11/11/22 19:54	WP	4	M	GRO
AD34453-001	11/11/22 23:55	R31	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34453-001
Client Id: SB-70 (6-8)
Data File: 8G669585.D
Analysis Date: 11/18/22 14:31
Date Rec/Extracted: 11/10/22-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	73	U				

Worksheet #: 668953

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669585.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:31:47
Operator : AH/ABM/RR/KT/JR
Sample : AD34453-001
Misc : S.TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:26:28 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.261	18877	10.741		
23)	O-Terphenyl	6.554	47714	16.696		
24)d	Diesel Range Organics(T	6.553f	154951	66.473		m
25)t	Total Petroleum Hydroca	6.553f	1049744	460.644		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

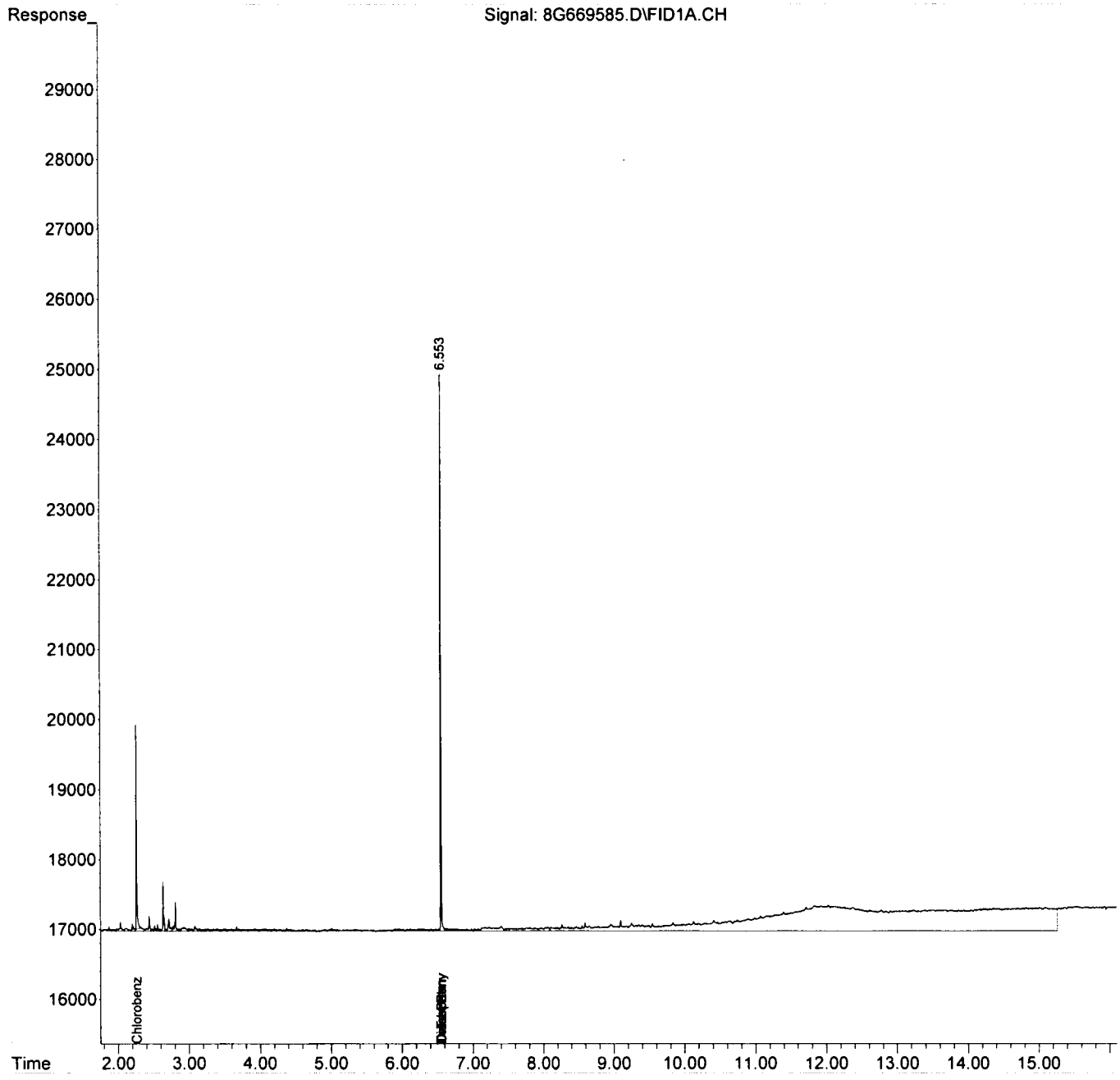
KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669585.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:31:47
Operator : AH/ABM/RR/KT/JR
Sample : AD34453-001
Misc : S.TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:26:28 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103654
Client Id:
Data File: 8G669584.D
Analysis Date: 11/18/22 14:06
Date Rec/Extracted: NA-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 668953

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669584.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:06:43
Operator : AH/ABM/RR/KT/JR
Sample : SMB103654
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 16:29:30 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	22444	12.770		
23)	O-Terphenyl	6.696f	49965	17.483		
24)d	Diesel Range Organics(T	6.696f	236042	101.260		m
25)t	Total Petroleum Hydroca	6.696f	1032520	453.086		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

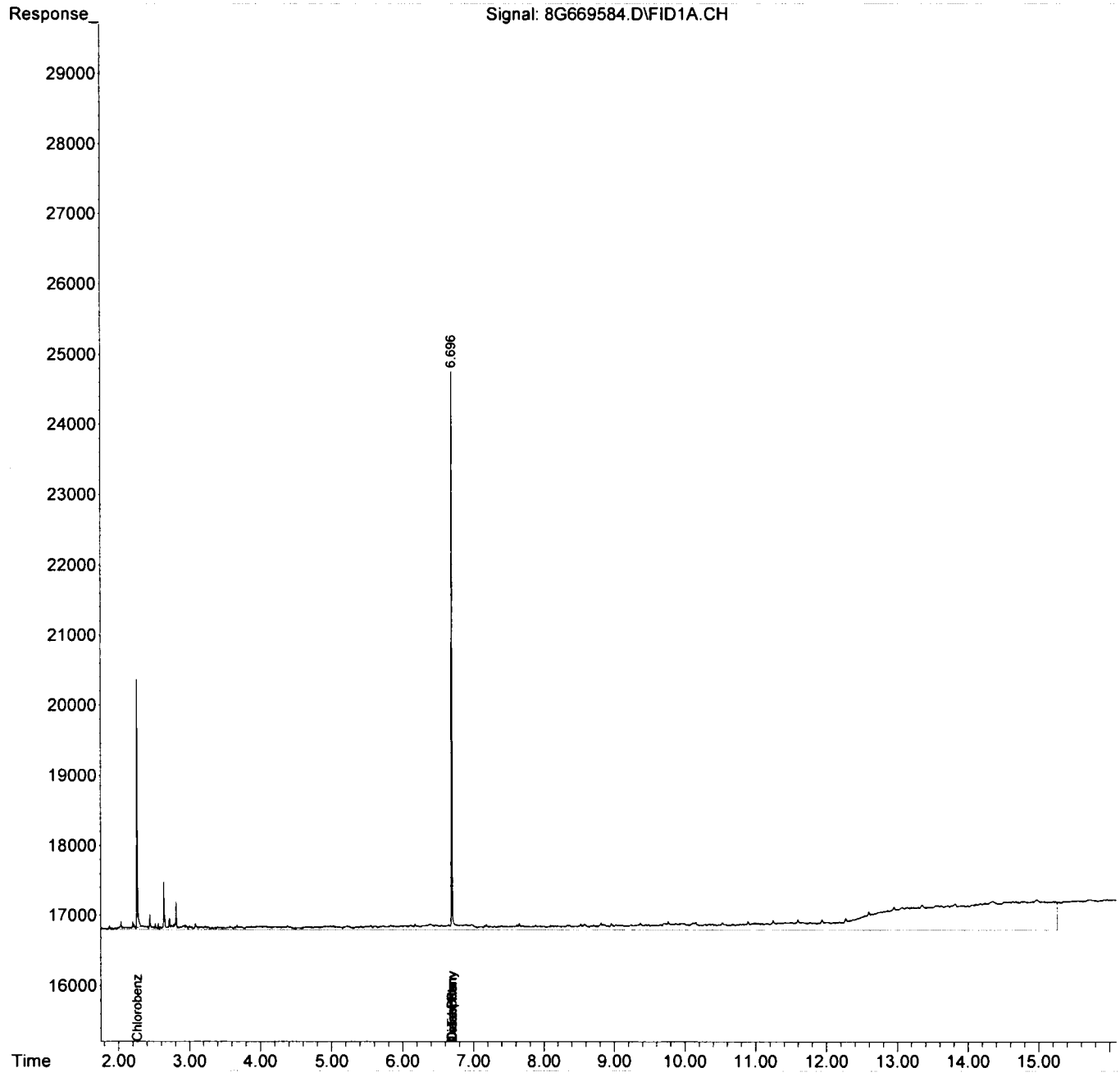
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669584.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:06:43
Operator : AH/ABM/RR/KT/JR
Sample : SMB103654
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 16:29:30 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669583.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 12:19:15
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 14:04:37 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	9.436f	92944	39.872		m
25)t	Total Petroleum Hydroca	12.082f	978233	429.264		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

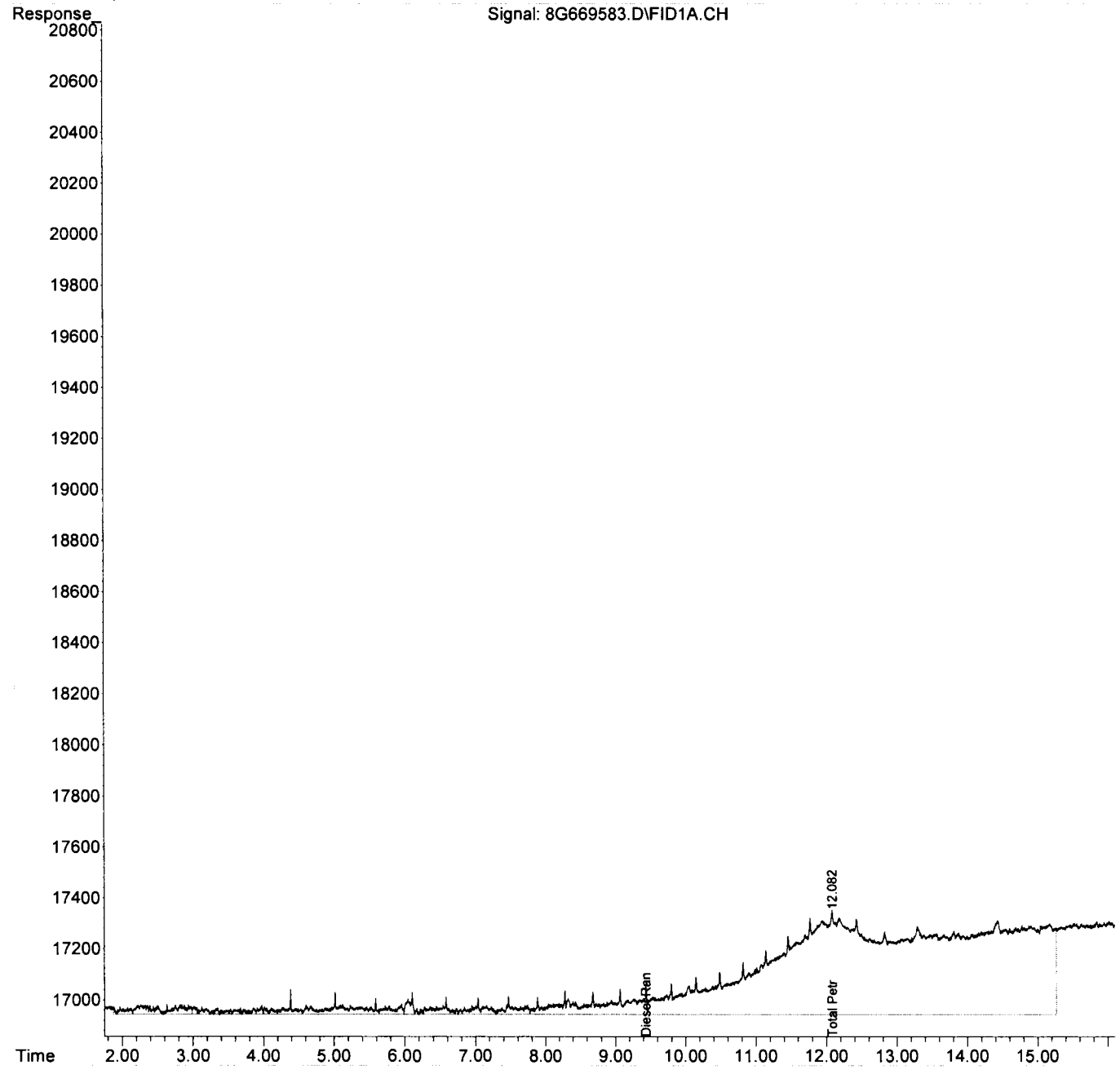
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669583.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 12:19:15
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 14:04:37 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669584.D	SMB103654	S	11/18/22 14:06	1		64	87				
8G669606.D	SMB103688	S	11/22/22 12:25	1		35	62				
8G669585.D	AD34453-001	S	11/18/22 14:31	1		54	84				
8G669566.D	SMB103654(MS)	S	11/17/22 15:24	1		72	106				
8G669568.D	AD34426-001(MS)	S	11/17/22 16:09	1		63	80				
8G669569.D	AD34426-001(MSD)	S	11/17/22 16:31	1		69	102				
8G669593.D	AD34426-001(R)	S	11/21/22 09:43	1		47	73				
8G669607.D	SMB103688(MS)	S	11/22/22 12:50	1		38	88				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669566.D	SMB103654(MS)	11/17/2022 3:24:12 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2641.97	0	3000	88	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669568.D	AD34426-001(MS)	11/17/2022 4:09:14 PM
Non Spike(If applicable):	8G669593.D	AD34426-001(R)	11/21/2022 9:43:37 AM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2136.41	0	3000	71	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669569.D	AD34426-001(MSD)	11/17/2022 4:31:54 PM
Non Spike(If applicable):	8G669593.D	AD34426-001(R)	11/21/2022 9:43:37 AM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2688.21	0	3000	90	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669569.D	AD34426-001(MSD)	11/17/2022 4:31:54 PM
Duplicate(If applicable):	8G669568.D	AD34426-001(MS)	11/17/2022 4:09:14 PM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	2688.21	2136.41	23	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103688

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669607.D	SMB103688(MS)	11/22/2022 12:50:51 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2303.19	0	3000	77	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103654
Blank Data File: 8G669584.D
Matrix: Soil

Blank Analysis Date: 11/18/22 14:06
Blank Extraction Date: 11/17/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34453-001	8G669585.D	11/18/22 14:31
AD34426-001(MSD	8G669569.D	11/17/22 16:31
AD34426-001(MS)	8G669568.D	11/17/22 16:09
SMB103654(MS)	8G669566.D	11/17/22 15:24

FORM 4
Blank Summary

Blank Number: SMB103688
Blank Data File: 8G669606.D
Matrix: Soil

Blank Analysis Date: 11/22/22 12:25
Blank Extraction Date: 11/20/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
SMB103688(MS)	8G669607.D	11/22/22 12:50
AD34426-001(R)	8G669593.D	11/21/22 09:43

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669147.D	INST BLK(MECL2)	10/10/22 08:56	Aqueous					
8G669148.D	TPH@20PPM	10/10/22 11:55	Aqueous					
8G669149.D	TPH@500PPM	10/10/22 12:39	Aqueous					
8G669150.D	CALTPH@100PPM	10/10/22 13:05	Aqueous	8G66915	6.5864	0.0623		
8G669151.D	CALTPH@40PPM	10/10/22 13:28	Aqueous	8G66915	6.5732	0.1383		
8G669152.D	TPH@20PPM	10/10/22 13:50	Aqueous	8G66915	6.5825	0.003		
8G669153.D	CALTPH@10PPM	10/10/22 14:13	Aqueous	8G66915	6.5752	0.1079		
8G669154.D	CALTPH@5PPM	10/10/22 14:36	Aqueous	8G66915	6.5823	0		
8G669155.D	CALTPH@500PPM	10/10/22 14:59	Aqueous	8G66915	6.5880	0.0866		
8G669156.D	CALTPH@20PPM	10/10/22 15:21	Aqueous	8G66915	6.5861	0.0577		
8G669157.D	ICVTPH@20PPM	10/10/22 15:44	Aqueous	8G66915	6.5818	0.0076		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669562.D	INST BLK	11/17/22 13:39	Aqueous					
8G669563.D	CALTPH@20PPM	11/17/22 14:02	Aqueous	8G66956	6.5672	0		
8G669564.D	INST BLK	11/17/22 14:39	Aqueous	8G66956	0.0000	200		
8G669565.D	SMB103654	11/17/22 15:01	Soil	8G66956	6.5442	0.3508		
8G669566.D	SMB103654(MS)	11/17/22 15:24	Soil	8G66956	6.5530	0.2165		
8G669567.D	AD34426-001	11/17/22 15:46	Soil	8G66956	6.5517	0.2363		
8G669568.D	AD34426-001(MS)	11/17/22 16:09	Soil	8G66956	6.5494	0.2714		
8G669569.D	AD34426-001(MSD)	11/17/22 16:31	Soil	8G66956	6.5414	0.3936		
8G669570.D	AD34426-002	11/17/22 16:54	Soil	8G66956	6.5349	0.4931		
8G669571.D	AD34426-003	11/17/22 17:17	Soil	8G66956	6.5263	0.6247		
8G669572.D	AD34426-004	11/17/22 17:39	Soil	8G66956	6.5243	0.6554		
8G669573.D	AD34426-005	11/17/22 18:02	Soil	8G66956	6.5442	0.3508		
8G669574.D	AD34426-006	11/17/22 18:24	Soil	8G66956	6.5380	0.4456		
8G669575.D	AD34488-001	11/17/22 18:47	Soil	8G66956	6.5371	0.4594		
8G669576.D	AD34488-002	11/17/22 19:10	Soil	8G66956	6.5323	0.5328		
8G669577.D	CAL TPH@20PPM	11/17/22 19:32	Soil	8G66956	6.5294	0.5773		
8G669578.D	CAL TPH@20PPM	11/17/22 19:55	Soil	8G66956	6.5267	0.6186		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669581.D	INST BLK	11/18/22 10:34	Aqueous					
8G669582.D	CALTPH@20PPM	11/18/22 11:40	Aqueous	8G66958	6.5313	0		
8G669583.D	INST BLK	11/18/22 12:19	Aqueous	8G66958	0.0000	200		
8G669584.D	SMB103654	11/18/22 14:06	Soil	8G66958	6.6963	2.4948		
8G669585.D	AD34453-001	11/18/22 14:31	Soil	8G66958	6.5536	0.3408		
8G669586.D	AD34490-001	11/18/22 14:57	Soil	8G66958	6.5546	0.3561		
8G669587.D	AD34490-002	11/18/22 15:23	Soil	8G66958	6.5487	0.2661		
8G669588.D	CALTPH@20PPM	11/18/22 16:33	Aqueous	8G66958	6.6583	1.9258		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669589.D	INST BLK	11/21/22 08:14	Aqueous					
8G669590.D	CALTPH@20PPM	11/21/22 08:36	Aqueous	8G66959	6.5579	0		
8G669591.D	INST BLK	11/21/22 08:58	Aqueous	8G66959	0.0000	200		
8G669592.D	SMB103688	11/21/22 09:21	Soil	8G66959	6.5473	0.1618		
8G669593.D	AD34426-001(R)	11/21/22 09:43	Soil	8G66959	6.5419	0.2443		
8G669594.D	AD34426-003(R)	11/21/22 10:06	Soil	8G66959	6.5448	0.2		
8G669595.D	AD34564-004(R)	11/21/22 10:28	Soil	8G66959	6.5511	0.1037		
8G669596.D	AD34613-001	11/21/22 10:50	Soil	8G66959	6.5357	0.3391		
8G669597.D	AD34613-002	11/21/22 11:13	Soil	8G66959	6.5358	0.3376		
8G669598.D	AD34613-003	11/21/22 11:35	Soil	8G66959	6.5339	0.3666		
8G669599.D	AD34613-004	11/21/22 11:58	Soil	8G66959	6.5410	0.258		
8G669600.D	AD34613-005	11/21/22 12:20	Soil	8G66959	6.5388	0.2917		
8G669601.D	AD34613-006	11/21/22 12:43	Soil	8G66959	6.5413	0.2535		
8G669602.D	CALTPH@20PPM	11/21/22 13:12	Soil	8G66959	6.5891	0.4746		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669603.D	INST BLK	11/22/22 09:02	Aqueous					
8G669604.D	CALTPH@20PPM	11/22/22 11:34	Aqueous	8G66960	6.5878	0		
8G669605.D	INST BLK	11/22/22 11:59	Aqueous	8G66960	0.0000	200		
8G669606.D	SMB103688	11/22/22 12:25	Soil	8G66960	6.5337	0.8246		
8G669607.D	SMB103688(MS)	11/22/22 12:50	Soil	8G66960	6.5266	0.9333		
8G669608.D	WMB103682	11/22/22 13:17	Aqueous	8G66960	6.5286	0.9027		
8G669609.D	WMB103682(MS)	11/22/22 13:42	Aqueous	8G66960	6.5262	0.9395		
8G669610.D	AD34533-001	11/22/22 14:08	Aqueous	8G66960	6.5301	0.8797		
8G669611.D	AD34533-002	11/22/22 14:34	Aqueous	8G66960	6.5262	0.9395		
8G669612.D	AD34533-001(MS)	11/22/22 14:59	Aqueous	8G66960	6.5427	0.687		
8G669613.D	AD34533-001(MSD)	11/22/22 15:47	Aqueous	8G66960	6.6246	0.5571		
8G669614.D	AD34593-001	11/22/22 16:12	Soil	8G66960	6.5607	0.4122		
8G669615.D	CALTPH@20PPM	11/22/22 16:38	Aqueous	8G66960	6.5530	0.5296		
8G669616.D	INST BLK	11/22/22 17:03	Aqueous	8G66961	0.0000	200		
8G669617.D	AD34609-003	11/22/22 17:29	Soil	8G66961	6.5456	0.113		
8G669618.D	AD34609-003(MS)	11/22/22 17:54	Soil	8G66961	6.5342	0.2873		
8G669619.D	AD34609-003(MSD)	11/22/22 18:20	Soil	8G66961	6.5285	0.3746		
8G669620.D	AD34609-004	11/22/22 18:45	Soil	8G66961	6.5365	0.2521		
8G669621.D	AD34609-005	11/22/22 19:10	Soil	8G66961	6.5231	0.4573		
8G669622.D	AD34609-006	11/22/22 19:36	Soil	8G66961	6.5258	0.4159		
8G669623.D	TEST	11/22/22 20:01	Aqueous	8G66961	0.0000	200		
8G669624.D	CALTPH@20PPM	11/22/22 20:26	Aqueous	8G66961	6.5217	0.4788		
8G669625.D	CALTPH@20PPM	11/22/22 20:52	Aqueous	8G66961	6.5127	0.6169		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2111003 0034

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

2111003 0035

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669154.D	CALTPH@5PPM	10/10/22 14:36	2	8G669153.D	CALTPH@10PPM	10/10/22 14:13
3	8G669156.D	CALTPH@20PPM	10/10/22 15:21	4	8G669151.D	CALTPH@40PPM	10/10/22 13:28
5	8G669150.D	CALTPH@100PPM	10/10/22 13:05	6	8G669155.D	CALTPH@500PPM	10/10/22 14:59

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2114	0.2042	0.2260	0.2271	0.2282	0.2266	----	----	0.221	1.98	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.2240	0.2129	0.2394	0.2423	0.2436	0.2399	----	----	0.234	2.55	1.00	1.00	5.3	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2261	0.2159	0.2472	0.2495	0.2517	0.2463	----	----	0.240	3.09	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2391	0.2205	0.2650	0.2714	0.2715	0.2636	----	----	0.255	4.03	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.2460	0.2300	0.2752	0.2814	0.2820	0.2707	----	----	0.264	4.84	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2627	0.2384	0.2852	0.2907	0.2911	0.2774	----	----	0.274	5.55	0.999	1.00	7.5	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2852	0.2543	0.2933	0.3490	0.3280	0.3007	----	----	0.302	5.89	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2363	0.2172	0.2883	0.2886	0.2658	0.2437	----	----	0.257	5.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2799	0.2430	0.3031	0.3121	0.3129	0.2972	----	----	0.291	6.22	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2591	0.2170	0.2699	0.2743	0.2745	0.2580	----	----	0.259	6.25	0.999	1.00	8.4	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2897	0.2465	0.3103	0.3195	0.3201	0.3026	----	----	0.298	6.87	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2961	0.2511	0.3118	0.3243	0.3254	0.3073	----	----	0.303	7.50	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3020	0.2498	0.3205	0.3337	0.3333	0.3131	----	----	0.309	8.12	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3194	0.2453	0.3196	0.3346	0.3352	0.3140	----	----	0.311	8.72	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3124	0.2530	0.3236	0.3386	0.3384	0.3160	----	----	0.314	9.32	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.3229	0.2510	0.3281	0.3436	0.3421	0.3179	----	----	0.318	9.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3418	0.2598	0.3308	0.3523	0.3495	0.3206	----	----	0.326	10.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3248	0.2482	0.3267	0.3456	0.3402	0.3083	----	----	0.316	11.03	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3222	0.2441	0.3570	0.3373	0.3350	0.2980	----	----	0.316	11.58	0.996	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2742	0.2282	0.3477	0.3229	0.3143	0.2795	----	----	0.295	12.85	0.999	1.00	14	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1807	0.1729	0.1967	0.2011	0.2025	0.1940	----	----	0.191	2.28	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.3260	0.2729	0.3371	0.3440	0.3420	0.3255	----	----	0.325	6.59	1.00	1.00	8.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2734	0.2371	0.2933	0.3052	0.3023	0.2854	----	----	0.283	3.09	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2788	0.2365	0.2984	0.3069	0.3041	0.2851	----	----	0.285	1.98	1.00	1.00	9.2	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2828	0.2388	0.2997	0.3105	0.3078	0.2886	----	----	0.288	2.55	1.00	1.00	9.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.23 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669563.D			8G669577.D			8G669582.D			8G669588.D			8G669590.D		
Method:				8015			8015			8015			8015			8015		
Calibration Name:				CALTPH@20PPM			CAL TPH@20PPM			CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM		
Calibration Date/Time				11/17/22 14:02			11/17/22 19:32			11/18/22 11:40			11/18/22 16:33			11/21/22 08:36		
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	22.67	20	13.4	20.89	20	4.4	22.74	20	13.7	22.62	20	13.1	21.05	20	5.2
C9	20	1	0	21.92	20	9.6	20.01	20	0.1	21.5	20	7.5	21.18	20	5.9	20.27	20	1.4
C10	20	1	0	21.34	20	6.7	19.48	20	2.6	20.9	20	4.5	20.38	20	1.9	19.35	20	3.2
C12	20	1	0	20.63	20	3.1	18.67	20	6.6	20.58	20	2.9	20.54	20	2.7	19.12	20	4.4
C14	20	1	0	20.55	20	2.7	18.95	20	5.2	21.16	20	5.8	20.78	20	3.9	18.82	20	5.9
C16	20	1	0	20.02	20	0.1	18.38	20	8.1	20.95	20	4.8	21.44	20	7.2	18.95	20	5.2
C17	20	1	0	18.79	20	6.0	18.05	20	9.8	22.82	20	14.1	20.18	20	0.9	17.72	20	11.4
Pristane	20	1	0	21.43	20	7.2	19.22	20	3.9	21.75	20	8.8	20.29	20	1.5	21.95	20	9.8
C18	20	1	0	19.88	20	0.6	17.92	20	10.4	20.14	20	0.7	19.97	20	0.2	17.74	20	11.3
Phytane	20	1	0	20.3	20	1.5	19.29	20	3.5	22.34	20	11.7	22.01	20	10.1	20.12	20	0.6
C20	20	1	0	19.66	20	1.7	18.12	20	9.4	20.99	20	4.9	21.08	20	5.4	18.17	20	9.2
C22	20	1	0	19.36	20	3.2	17.97	20	10.2	21.06	20	5.3	21.11	20	5.6	18.17	20	9.2
C24	20	1	0	19.35	20	3.2	17.87	20	10.7	20.59	20	3.0	21.54	20	7.7	18.06	20	9.7
C26	20	1	0	19.14	20	4.3	17.39	20	13.1	21.17	20	5.9	21.56	20	7.8	17.5	20	12.5
C28	20	1	0	18.82	20	5.9	17.18	20	14.1	21.18	20	5.9	21.21	20	6.0	17.36	20	13.2
C30	20	1	0	18.86	20	5.7	16.97	20	15.2	21.77	20	8.9	21.4	20	7.0	16.89	20	15.6
C32	20	1	0	18.18	20	9.1	15.85	20	20.8*	20.4	20	2.0	20.92	20	4.6	16.05	20	19.8
C34	20	1	0	16.79	20	16.1	14.86	20	25.7*	20.47	20	2.3	20.59	20	3.0	14.67	20	26.7*
C36	20	1	0	15.31	20	23.5*	13.51	20	32.5*	21.24	20	6.2	21.88	20	9.4	13.3	20	33.5*
C40	20	1	0	15.87	20	20.7*	12.32	20	38.4*	19.64	20	1.8	21.57	20	7.8	11.84	20	40.8*
Chlorobenzene	20	1	0	22.12	20	10.6	20.6	20	3.0	21.32	20	6.6	21.82	20	9.1	20.03	20	0.2
O-Terphenyl	20	1	0	20.03	20	0.2	18.48	20	7.6	21.34	20	6.7	21.28	20	6.4	18.87	20	5.6
Average Difference	20	1	0			7.0			11.6			5.9			5.6			11.6

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669602.D			8G669604.D			8G669615.D									
Method:				8015			8015			8015									
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM									
Calibration Date/Time				11/21/22 13:12			11/22/22 11:34			11/22/22 16:38									
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
C8	20	1	0	20.76	20	3.8	21.61	20	8.1	19.94	20	0.3						
C9	20	1	0	19.85	20	0.7	20.76	20	3.8	18.58	20	7.1						
C10	20	1	0	19.41	20	3.0	20.57	20	2.8	17.8	20	11.0						
C12	20	1	0	18.76	20	6.2	20.33	20	1.7	17.55	20	12.3						
C14	20	1	0	18.92	20	5.4	21.55	20	7.7	18.38	20	8.1						
C16	20	1	0	17.77	20	11.2	23.05	20	15.3	18.5	20	7.5						
C17	20	1	0	15.66	20	21.7*	19.31	20	3.5	21.54	20	7.7						
Pristane	20	1	0	20.2	20	1.0	19.43	20	2.8	16.88	20	15.6						
C18	20	1	0	17.16	20	14.2	21.29	20	6.5	17.45	20	12.8						
Phytane	20	1	0	19.75	20	1.3	20.54	20	2.7	20.57	20	2.8						
C20	20	1	0	18.12	20	9.4	22.3	20	11.5	19.13	20	4.4						
C22	20	1	0	17.75	20	11.3	22.77	20	13.9	19.02	20	4.9						
C24	20	1	0	17.66	20	11.7	22.19	20	11.0	19.19	20	4.0						
C26	20	1	0	17.16	20	14.2	22.09	20	10.5	19.88	20	0.6						
C28	20	1	0	17	20	15.0	21.84	20	9.2	19.7	20	1.5						
C30	20	1	0	16.66	20	16.7	21.61	20	8.1	19.99	20	0.1						
C32	20	1	0	15.79	20	21.1*	22.03	20	10.2	19.73	20	1.4						
C34	20	1	0	14.51	20	27.5*	20.53	20	2.7	19.41	20	3.0						
C36	20	1	0	13.19	20	34.1*	18.27	20	8.6	18.61	20	6.9						
C40	20	1	0	12.3	20	38.5*	16.34	20	18.3	16.98	20	15.1						
Chlorobenzene	20	1	0	20.15	20	0.7	20.72	20	3.6	18.56	20	7.2						
O-Terphenyl	20	1	0	18.71	20	6.5	20.4	20	2.0	19.1	20	4.5						
Average Difference	20	1	0			12.5			7.8			6.9						

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.58	(6.54 - 6.62)	6.57	(6.53 - 6.61)	6.53	(6.49 - 6.57)	6.56	(6.52 - 6.60)
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.59	(6.55 - 6.63)								
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34453-001
Client Id: SB-70 (6-8)
Data File: 8G669585.D
Analysis Date: 11/18/22 14:31
Date Rec/Extracted: 11/10/22-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	73	U				

Worksheet #: 666507

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669585.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:31:47
Operator : AH/ABM/RR/KT/JR
Sample : AD34453-001
Misc : S.TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:26:28 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.261	18877	10.741		
23)	O-Terphenyl	6.554	47714	16.696		
24)d	Diesel Range Organics(T	6.553f	154951	66.473		m
25)t	Total Petroleum Hydroca	6.553f	1049744	460.644		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

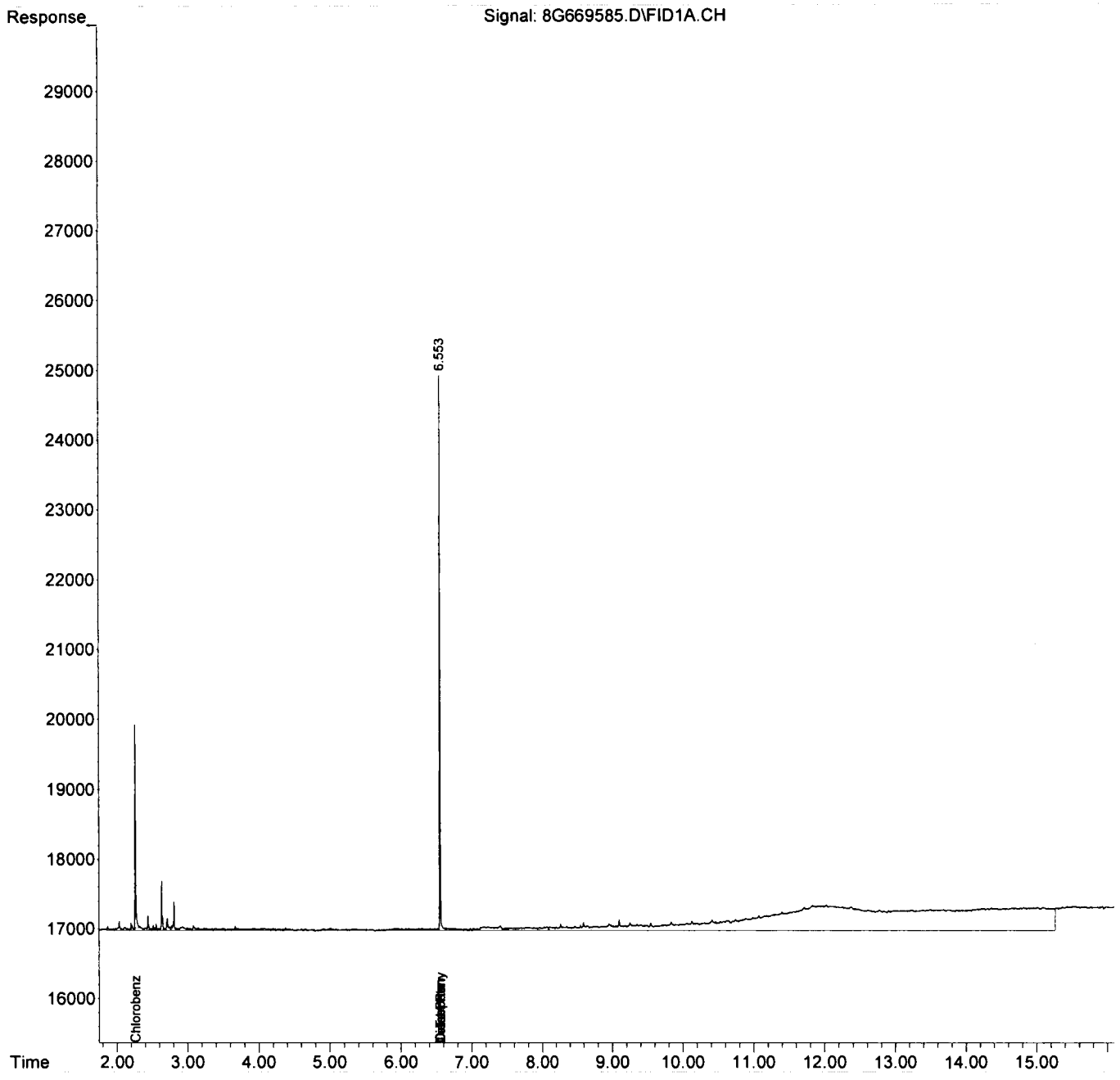
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669585.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:31:47
Operator : AH/ABM/RR/KT/JR
Sample : AD34453-001
Misc : S.TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:26:28 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103654
Client Id:
Data File: 8G669584.D
Analysis Date: 11/18/22 14:06
Date Rec/Extracted: NA-11/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 666507

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669584.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:06:43
Operator : AH/ABM/RR/KT/JR
Sample : SMB103654
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 16:29:30 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)mt	C8	0.000	0	N.D.	d
2)mte	C9	0.000	0	N.D.	d
3)mdte	C10	0.000	0	N.D.	d
4)mdte	C12	0.000	0	N.D.	d
5)mdte	C14	0.000	0	N.D.	d
6)dte	C16	0.000	0	N.D.	d
7)dte	C17	0.000	0	N.D.	d
8)dte	Pristane	0.000	0	N.D.	d
9)dte	C18	0.000	0	N.D.	d
10)dte	Phytane	0.000	0	N.D.	d
11)dte	C20	0.000	0	N.D.	d
12)dte	C22	0.000	0	N.D.	d
13)dte	C24	0.000	0	N.D.	d
14)dte	C26	0.000	0	N.D.	d
15)dte	C28	0.000	0	N.D.	d
16)te	C30	0.000	0	N.D.	d
17)te	C32	0.000	0	N.D.	d
18)te	C34	0.000	0	N.D.	d
19)te	C36	0.000	0	N.D.	d
20)t	C40	0.000	0	N.D.	d
21)t	C44	0.000	0	N.D.	d
22)	Chlorobenzene	2.263	22444	12.770	
23)	O-Terphenyl	6.696f	49965	17.483	
24)d	Diesel Range Organics(T	6.696f	236042	101.260	m
25)t	Total Petroleum Hydroca	6.696f	1032520	453.086	m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.	d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.	d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.	d

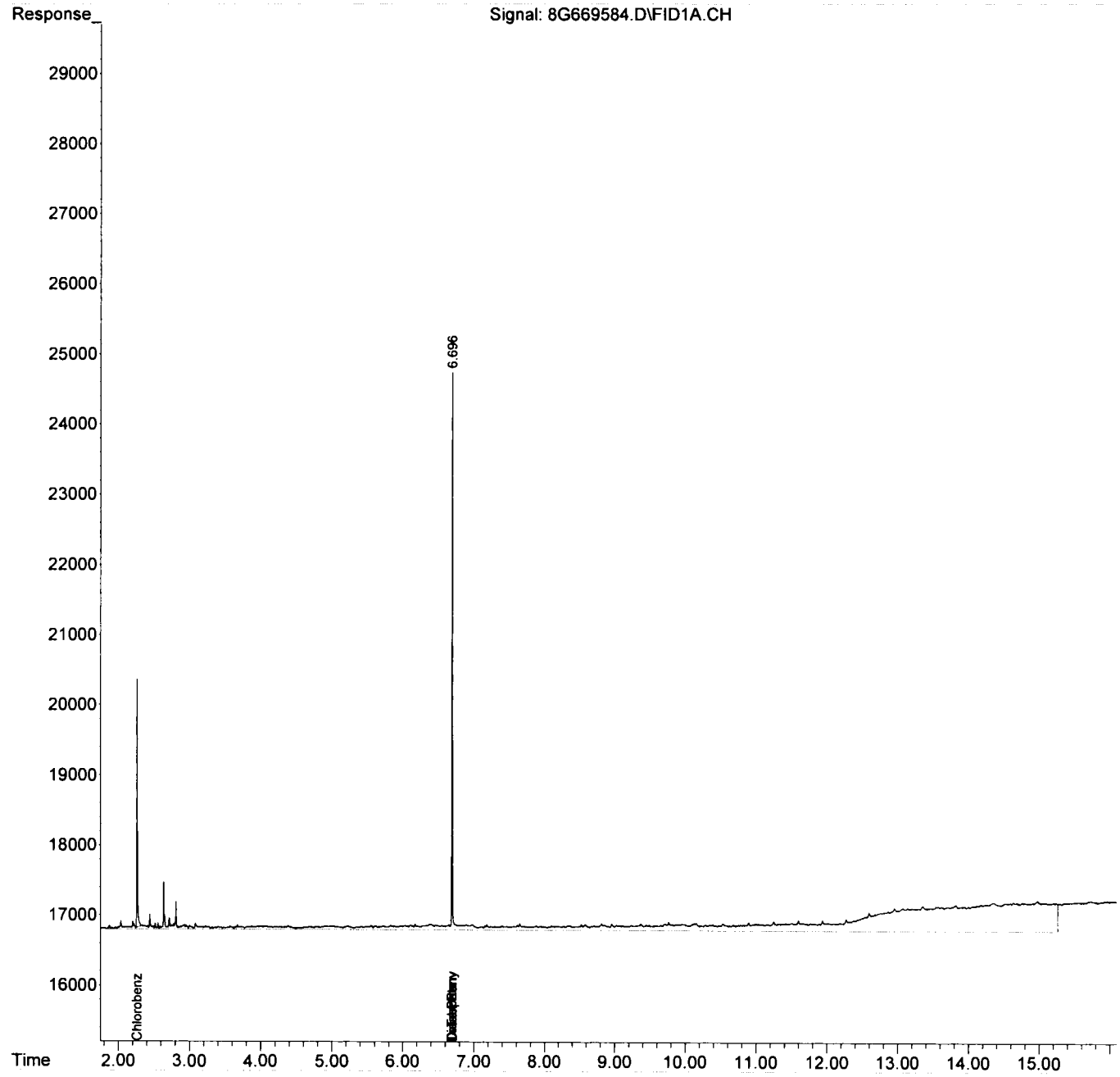
(f)=RT Delta > 1/2 Window (m)=manual int. PG

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669584.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 14:06:43
Operator : AH/ABM/RR/KT/JR
Sample : SMB103654
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 16:29:30 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669583.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 12:19:15
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 14:04:37 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	9.436f	92944	39.872		m
25)t	Total Petroleum Hydroca	12.082f	978233	429.264		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

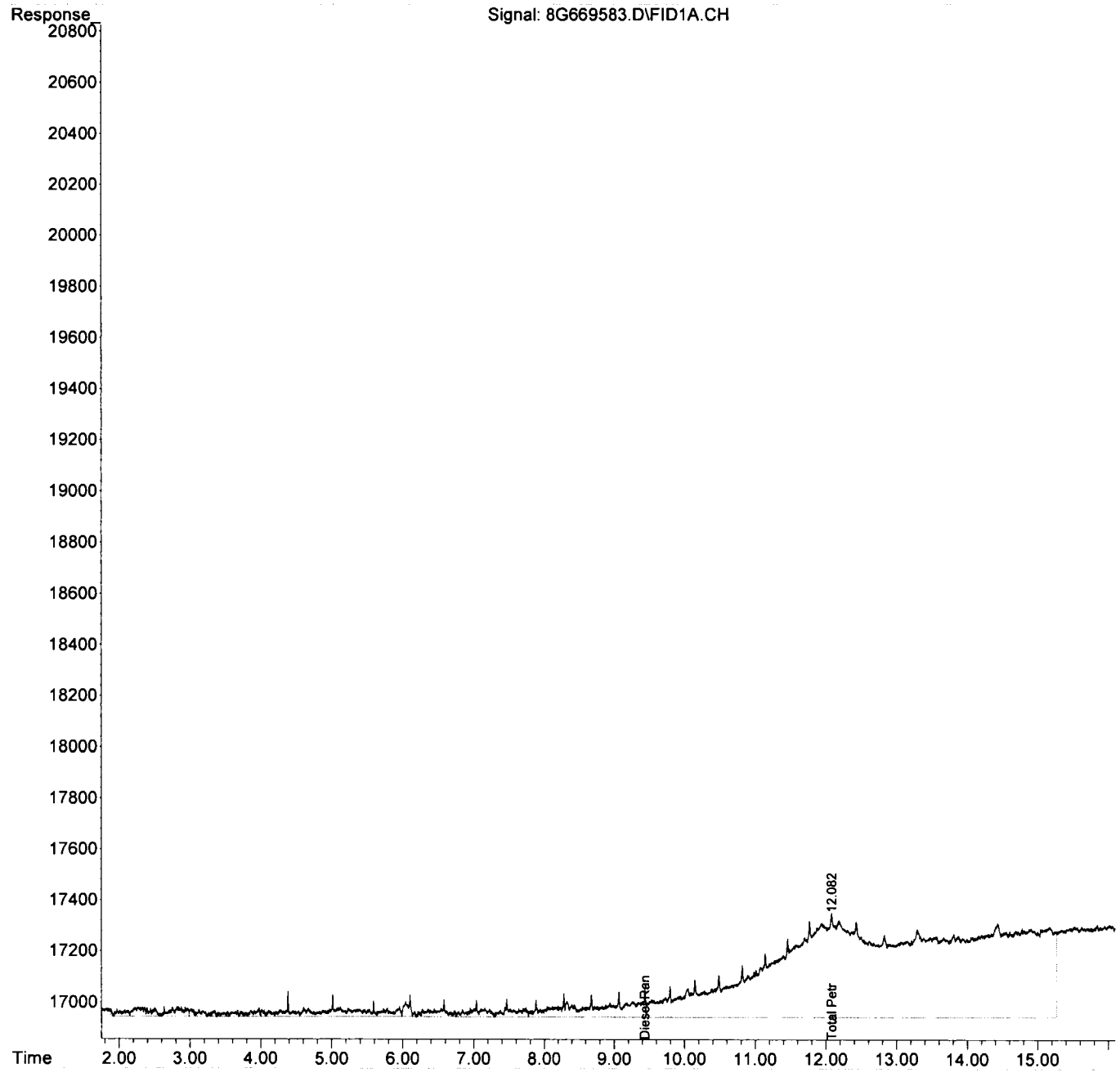
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-18-22\
Data File : 8G669583.D
Signal(s) : FID1A.CH
Acq On : 18-Nov-22, 12:19:15
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 18 14:04:37 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669584.D	SMB103654	S	11/18/22 14:06	1		64	87				
8G669606.D	SMB103688	S	11/22/22 12:25	1		35	62				
8G669585.D	AD34453-001	S	11/18/22 14:31	1		54	84				
8G669566.D	SMB103654(MS)	S	11/17/22 15:24	1		72	106				
8G669568.D	AD34426-001(MS)	S	11/17/22 16:09	1		63	80				
8G669569.D	AD34426-001(MSD)	S	11/17/22 16:31	1		69	102				
8G669593.D	AD34426-001(R)	S	11/21/22 09:43	1		47	73				
8G669607.D	SMB103688(MS)	S	11/22/22 12:50	1		38	88				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669566.D	SMB103654(MS)	11/17/2022 3:24:12 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2641.97**	**0**	**3000**	**88**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669568.D	AD34426-001(MS)	11/17/2022 4:09:14 PM
Non Spike(If applicable):	8G669593.D	AD34426-001(R)	11/21/2022 9:43:37 AM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2136.41**	**0**	**3000**	**71**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669569.D	AD34426-001(MSD)	11/17/2022 4:31:54 PM
Non Spike(If applicable):	8G669593.D	AD34426-001(R)	11/21/2022 9:43:37 AM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2688.21**	**0**	**3000**	**90**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103654

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669569.D	AD34426-001(MSD)	11/17/2022 4:31:54 PM
Duplicate(If applicable):	8G669568.D	AD34426-001(MS)	11/17/2022 4:09:14 PM
Inst Blank(If applicable):	8G669564.D	INST BLK	11/17/2022 2:39:12 PM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**2688.21**	**2136.41**	**23**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103688

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669607.D	SMB103688(MS)	11/22/2022 12:50:51 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2303.19**	**0**	**3000**	**77**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103654
Blank Data File: 8G669584.D
Matrix: Soil

Blank Analysis Date: 11/18/22 14:06
Blank Extraction Date: 11/17/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34453-001	8G669585.D	11/18/22 14:31
AD34426-001(MS)	8G669568.D	11/17/22 16:09
SMB103654(MS)	8G669566.D	11/17/22 15:24
AD34426-001(MSD	8G669569.D	11/17/22 16:31

FORM 4
Blank Summary

Blank Number: SMB103688
Blank Data File: 8G669606.D
Matrix: Soil

Blank Analysis Date: 11/22/22 12:25
Blank Extraction Date: 11/20/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
SMB103688(MS)	8G669607.D	11/22/22 12:50
AD34426-001(R)	8G669593.D	11/21/22 09:43

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669147.D	INST BLK(MECL2)	10/10/22 08:56	Aqueous					
8G669148.D	TPH@20PPM	10/10/22 11:55	Aqueous					
8G669149.D	TPH@500PPM	10/10/22 12:39	Aqueous					
8G669150.D	CALTPH@100PPM	10/10/22 13:05	Aqueous	8G66915	6.5864	0.0623		
8G669151.D	CALTPH@40PPM	10/10/22 13:28	Aqueous	8G66915	6.5732	0.1383		
8G669152.D	TPH@20PPM	10/10/22 13:50	Aqueous	8G66915	6.5825	0.003		
8G669153.D	CALTPH@10PPM	10/10/22 14:13	Aqueous	8G66915	6.5752	0.1079		
8G669154.D	CALTPH@5PPM	10/10/22 14:36	Aqueous	8G66915	6.5823	0		
8G669155.D	CALTPH@500PPM	10/10/22 14:59	Aqueous	8G66915	6.5880	0.0866		
8G669156.D	CALTPH@20PPM	10/10/22 15:21	Aqueous	8G66915	6.5861	0.0577		
8G669157.D	ICVTPH@20PPM	10/10/22 15:44	Aqueous	8G66915	6.5818	0.0076		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669562.D	INST BLK	11/17/22 13:39	Aqueous					
8G669563.D	CALTPH@20PPM	11/17/22 14:02	Aqueous	8G66956	6.5672	0		
8G669564.D	INST BLK	11/17/22 14:39	Aqueous	8G66956	0.0000	200		
8G669565.D	SMB103654	11/17/22 15:01	Soil	8G66956	6.5442	0.3508		
8G669566.D	SMB103654(MS)	11/17/22 15:24	Soil	8G66956	6.5530	0.2165		
8G669567.D	AD34426-001	11/17/22 15:46	Soil	8G66956	6.5517	0.2363		
8G669568.D	AD34426-001(MS)	11/17/22 16:09	Soil	8G66956	6.5494	0.2714		
8G669569.D	AD34426-001(MSD)	11/17/22 16:31	Soil	8G66956	6.5414	0.3936		
8G669570.D	AD34426-002	11/17/22 16:54	Soil	8G66956	6.5349	0.4931		
8G669571.D	AD34426-003	11/17/22 17:17	Soil	8G66956	6.5263	0.6247		
8G669572.D	AD34426-004	11/17/22 17:39	Soil	8G66956	6.5243	0.6554		
8G669573.D	AD34426-005	11/17/22 18:02	Soil	8G66956	6.5442	0.3508		
8G669574.D	AD34426-006	11/17/22 18:24	Soil	8G66956	6.5380	0.4456		
8G669575.D	AD34488-001	11/17/22 18:47	Soil	8G66956	6.5371	0.4594		
8G669576.D	AD34488-002	11/17/22 19:10	Soil	8G66956	6.5323	0.5328		
8G669577.D	CAL TPH@20PPM	11/17/22 19:32	Soil	8G66956	6.5294	0.5773		
8G669578.D	CAL TPH@20PPM	11/17/22 19:55	Soil	8G66956	6.5267	0.6186		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669581.D	INST BLK	11/18/22 10:34	Aqueous					
8G669582.D	CALTPH@20PPM	11/18/22 11:40	Aqueous	8G66958	6.5313	0		
8G669583.D	INST BLK	11/18/22 12:19	Aqueous	8G66958	0.0000	200		
8G669584.D	SMB103654	11/18/22 14:06	Soil	8G66958	6.6963	2.4948		
8G669585.D	AD34453-001	11/18/22 14:31	Soil	8G66958	6.5536	0.3408		
8G669586.D	AD34490-001	11/18/22 14:57	Soil	8G66958	6.5546	0.3561		
8G669587.D	AD34490-002	11/18/22 15:23	Soil	8G66958	6.5487	0.2661		
8G669588.D	CALTPH@20PPM	11/18/22 16:33	Aqueous	8G66958	6.6583	1.9258		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669589.D	INST BLK	11/21/22 08:14	Aqueous					
8G669590.D	CALTPH@20PPM	11/21/22 08:36	Aqueous	8G66959	6.5579	0		
8G669591.D	INST BLK	11/21/22 08:58	Aqueous	8G66959	0.0000	200		
8G669592.D	SMB103688	11/21/22 09:21	Soil	8G66959	6.5473	0.1618		
8G669593.D	AD34426-001(R)	11/21/22 09:43	Soil	8G66959	6.5419	0.2443		
8G669594.D	AD34426-003(R)	11/21/22 10:06	Soil	8G66959	6.5448	0.2		
8G669595.D	AD34564-004(R)	11/21/22 10:28	Soil	8G66959	6.5511	0.1037		
8G669596.D	AD34613-001	11/21/22 10:50	Soil	8G66959	6.5357	0.3391		
8G669597.D	AD34613-002	11/21/22 11:13	Soil	8G66959	6.5358	0.3376		
8G669598.D	AD34613-003	11/21/22 11:35	Soil	8G66959	6.5339	0.3666		
8G669599.D	AD34613-004	11/21/22 11:58	Soil	8G66959	6.5410	0.258		
8G669600.D	AD34613-005	11/21/22 12:20	Soil	8G66959	6.5388	0.2917		
8G669601.D	AD34613-006	11/21/22 12:43	Soil	8G66959	6.5413	0.2535		
8G669602.D	CALTPH@20PPM	11/21/22 13:12	Soil	8G66959	6.5891	0.4746		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669603.D	INST BLK	11/22/22 09:02	Aqueous					
8G669604.D	CALTPH@20PPM	11/22/22 11:34	Aqueous	8G66960	6.5878	0		
8G669605.D	INST BLK	11/22/22 11:59	Aqueous	8G66960	0.0000	200		
8G669606.D	SMB103688	11/22/22 12:25	Soil	8G66960	6.5337	0.8246		
8G669607.D	SMB103688(MS)	11/22/22 12:50	Soil	8G66960	6.5266	0.9333		
8G669608.D	WMB103682	11/22/22 13:17	Aqueous	8G66960	6.5286	0.9027		
8G669609.D	WMB103682(MS)	11/22/22 13:42	Aqueous	8G66960	6.5262	0.9395		
8G669610.D	AD34533-001	11/22/22 14:08	Aqueous	8G66960	6.5301	0.8797		
8G669611.D	AD34533-002	11/22/22 14:34	Aqueous	8G66960	6.5262	0.9395		
8G669612.D	AD34533-001(MS)	11/22/22 14:59	Aqueous	8G66960	6.5427	0.687		
8G669613.D	AD34533-001(MSD)	11/22/22 15:47	Aqueous	8G66960	6.6246	0.5571		
8G669614.D	AD34593-001	11/22/22 16:12	Soil	8G66960	6.5607	0.4122		
8G669615.D	CALTPH@20PPM	11/22/22 16:38	Aqueous	8G66960	6.5530	0.5296		
8G669616.D	INST BLK	11/22/22 17:03	Aqueous	8G66961	0.0000	200		
8G669617.D	AD34609-003	11/22/22 17:29	Soil	8G66961	6.5456	0.113		
8G669618.D	AD34609-003(MS)	11/22/22 17:54	Soil	8G66961	6.5342	0.2873		
8G669619.D	AD34609-003(MSD)	11/22/22 18:20	Soil	8G66961	6.5285	0.3746		
8G669620.D	AD34609-004	11/22/22 18:45	Soil	8G66961	6.5365	0.2521		
8G669621.D	AD34609-005	11/22/22 19:10	Soil	8G66961	6.5231	0.4573		
8G669622.D	AD34609-006	11/22/22 19:36	Soil	8G66961	6.5258	0.4159		
8G669623.D	TEST	11/22/22 20:01	Aqueous	8G66961	0.0000	200		
8G669624.D	CALTPH@20PPM	11/22/22 20:26	Aqueous	8G66961	6.5217	0.4788		
8G669625.D	CALTPH@20PPM	11/22/22 20:52	Aqueous	8G66961	6.5127	0.6169		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2111003 0062

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

2111003 0063

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669154.D	CALTPH@5PPM	10/10/22 14:36	2	8G669153.D	CALTPH@10PPM	10/10/22 14:13
3	8G669156.D	CALTPH@20PPM	10/10/22 15:21	4	8G669151.D	CALTPH@40PPM	10/10/22 13:28
5	8G669150.D	CALTPH@100PPM	10/10/22 13:05	6	8G669155.D	CALTPH@500PPM	10/10/22 14:59

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.2114	0.2042	0.2260	0.2271	0.2282	0.2266	----	----	0.221	1.98	1.00	1.00	4.6	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.2240	0.2129	0.2394	0.2423	0.2436	0.2399	----	----	0.234	2.55	1.00	1.00	5.3	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2261	0.2159	0.2472	0.2495	0.2517	0.2463	----	----	0.240	3.09	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2391	0.2205	0.2650	0.2714	0.2715	0.2636	----	----	0.255	4.03	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.2460	0.2300	0.2752	0.2814	0.2820	0.2707	----	----	0.264	4.84	1.00	1.00	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2627	0.2384	0.2852	0.2907	0.2911	0.2774	----	----	0.274	5.55	0.999	1.00	7.5	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2852	0.2543	0.2933	0.3490	0.3280	0.3007	----	----	0.302	5.89	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2363	0.2172	0.2883	0.2886	0.2658	0.2437	----	----	0.257	5.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2799	0.2430	0.3031	0.3121	0.3129	0.2972	----	----	0.291	6.22	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2591	0.2170	0.2699	0.2743	0.2745	0.2580	----	----	0.259	6.25	0.999	1.00	8.4	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2897	0.2465	0.3103	0.3195	0.3201	0.3026	----	----	0.298	6.87	1.00	1.00	9.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2961	0.2511	0.3118	0.3243	0.3254	0.3073	----	----	0.303	7.50	1.00	1.00	9.1	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.3020	0.2498	0.3205	0.3337	0.3333	0.3131	----	----	0.309	8.12	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.3194	0.2453	0.3196	0.3346	0.3352	0.3140	----	----	0.311	8.72	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.3124	0.2530	0.3236	0.3386	0.3384	0.3160	----	----	0.314	9.32	1.00	1.00	10	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.3229	0.2510	0.3281	0.3436	0.3421	0.3179	----	----	0.318	9.90	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.3418	0.2598	0.3308	0.3523	0.3495	0.3206	----	----	0.326	10.47	1.00	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.3248	0.2482	0.3267	0.3456	0.3402	0.3083	----	----	0.316	11.03	0.999	1.00	11	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.3222	0.2441	0.3570	0.3373	0.3350	0.2980	----	----	0.316	11.58	0.996	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2742	0.2282	0.3477	0.3229	0.3143	0.2795	----	----	0.295	12.85	0.999	1.00	14	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1807	0.1729	0.1967	0.2011	0.2025	0.1940	----	----	0.191	2.28	1.00	1.00	6.2	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.3260	0.2729	0.3371	0.3440	0.3420	0.3255	----	----	0.325	6.59	1.00	1.00	8.2	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2734	0.2371	0.2933	0.3052	0.3023	0.2854	----	----	0.283	3.09	1.00	1.00	8.9	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2788	0.2365	0.2984	0.3069	0.3041	0.2851	----	----	0.285	1.98	1.00	1.00	9.2	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2828	0.2388	0.2997	0.3105	0.3078	0.2886	----	----	0.288	2.55	1.00	1.00	9.2	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.2293	0.2167	0.2506	0.2544	0.2554	0.2494	----	----	0.243	2.03	1.00	1.00	6.5	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.23 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq
Corr 2 = Correlation Coefficient for quad Eq

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669563.D			8G669577.D			8G669582.D			8G669588.D			8G669590.D		
Method:				8015			8015			8015			8015			8015		
Calibration Name:				CALTPH@20PPM			CAL TPH@20PPM			CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM		
Calibration Date/Time				11/17/22 14:02			11/17/22 19:32			11/18/22 11:40			11/18/22 16:33			11/21/22 08:36		
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
C8	20	1	0	22.67	20	13.4	20.89	20	4.4	22.74	20	13.7	22.62	20	13.1	21.05	20	5.2
C9	20	1	0	21.92	20	9.6	20.01	20	0.1	21.5	20	7.5	21.18	20	5.9	20.27	20	1.4
C10	20	1	0	21.34	20	6.7	19.48	20	2.6	20.9	20	4.5	20.38	20	1.9	19.35	20	3.2
C12	20	1	0	20.63	20	3.1	18.67	20	6.6	20.58	20	2.9	20.54	20	2.7	19.12	20	4.4
C14	20	1	0	20.55	20	2.7	18.95	20	5.2	21.16	20	5.8	20.78	20	3.9	18.82	20	5.9
C16	20	1	0	20.02	20	0.1	18.38	20	8.1	20.95	20	4.8	21.44	20	7.2	18.95	20	5.2
C17	20	1	0	18.79	20	6.0	18.05	20	9.8	22.82	20	14.1	20.18	20	0.9	17.72	20	11.4
Pristane	20	1	0	21.43	20	7.2	19.22	20	3.9	21.75	20	8.8	20.29	20	1.5	21.95	20	9.8
C18	20	1	0	19.88	20	0.6	17.92	20	10.4	20.14	20	0.7	19.97	20	0.2	17.74	20	11.3
Phytane	20	1	0	20.3	20	1.5	19.29	20	3.5	22.34	20	11.7	22.01	20	10.1	20.12	20	0.6
C20	20	1	0	19.66	20	1.7	18.12	20	9.4	20.99	20	4.9	21.08	20	5.4	18.17	20	9.2
C22	20	1	0	19.36	20	3.2	17.97	20	10.2	21.06	20	5.3	21.11	20	5.6	18.17	20	9.2
C24	20	1	0	19.35	20	3.2	17.87	20	10.7	20.59	20	3.0	21.54	20	7.7	18.06	20	9.7
C26	20	1	0	19.14	20	4.3	17.39	20	13.1	21.17	20	5.9	21.56	20	7.8	17.5	20	12.5
C28	20	1	0	18.82	20	5.9	17.18	20	14.1	21.18	20	5.9	21.21	20	6.0	17.36	20	13.2
C30	20	1	0	18.86	20	5.7	16.97	20	15.2	21.77	20	8.9	21.4	20	7.0	16.89	20	15.6
C32	20	1	0	18.18	20	9.1	15.85	20	20.8*	20.4	20	2.0	20.92	20	4.6	16.05	20	19.8
C34	20	1	0	16.79	20	16.1	14.86	20	25.7*	20.47	20	2.3	20.59	20	3.0	14.67	20	26.7*
C36	20	1	0	15.31	20	23.5*	13.51	20	32.5*	21.24	20	6.2	21.88	20	9.4	13.3	20	33.5*
C40	20	1	0	15.87	20	20.7*	12.32	20	38.4*	19.64	20	1.8	21.57	20	7.8	11.84	20	40.8*
Chlorobenzene	20	1	0	22.12	20	10.6	20.6	20	3.0	21.32	20	6.6	21.82	20	9.1	20.03	20	0.2
O-Terphenyl	20	1	0	20.03	20	0.2	18.48	20	7.6	21.34	20	6.7	21.28	20	6.4	18.87	20	5.6
Average Difference	20	1	0			7.0			11.6			5.9			5.6			11.6

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669602.D			8G669604.D			8G669615.D									
Method:				8015			8015			8015									
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM									
Calibration Date/Time				11/21/22 13:12			11/22/22 11:34			11/22/22 16:38									
				Conc			Conc			Conc			Conc			Conc			
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	
C8	20	1	0	20.76	20	3.8	21.61	20	8.1	19.94	20	0.3							
C9	20	1	0	19.85	20	0.7	20.76	20	3.8	18.58	20	7.1							
C10	20	1	0	19.41	20	3.0	20.57	20	2.8	17.8	20	11.0							
C12	20	1	0	18.76	20	6.2	20.33	20	1.7	17.55	20	12.3							
C14	20	1	0	18.92	20	5.4	21.55	20	7.7	18.38	20	8.1							
C16	20	1	0	17.77	20	11.2	23.05	20	15.3	18.5	20	7.5							
C17	20	1	0	15.66	20	21.7*	19.31	20	3.5	21.54	20	7.7							
Pristane	20	1	0	20.2	20	1.0	19.43	20	2.8	16.88	20	15.6							
C18	20	1	0	17.16	20	14.2	21.29	20	6.5	17.45	20	12.8							
Phytane	20	1	0	19.75	20	1.3	20.54	20	2.7	20.57	20	2.8							
C20	20	1	0	18.12	20	9.4	22.3	20	11.5	19.13	20	4.4							
C22	20	1	0	17.75	20	11.3	22.77	20	13.9	19.02	20	4.9							
C24	20	1	0	17.66	20	11.7	22.19	20	11.0	19.19	20	4.0							
C26	20	1	0	17.16	20	14.2	22.09	20	10.5	19.88	20	0.6							
C28	20	1	0	17	20	15.0	21.84	20	9.2	19.7	20	1.5							
C30	20	1	0	16.66	20	16.7	21.61	20	8.1	19.99	20	0.1							
C32	20	1	0	15.79	20	21.1*	22.03	20	10.2	19.73	20	1.4							
C34	20	1	0	14.51	20	27.5*	20.53	20	2.7	19.41	20	3.0							
C36	20	1	0	13.19	20	34.1*	18.27	20	8.6	18.61	20	6.9							
C40	20	1	0	12.3	20	38.5*	16.34	20	18.3	16.98	20	15.1							
Chlorobenzene	20	1	0	20.15	20	0.7	20.72	20	3.6	18.56	20	7.2							
O-Terphenyl	20	1	0	18.71	20	6.5	20.4	20	2.0	19.1	20	4.5							
Average Difference	20	1	0			12.5			7.8			6.9							

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.58	(6.54 - 6.62)	6.57	(6.53 - 6.61)	6.53	(6.49 - 6.57)	6.56	(6.52 - 6.60)
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
Chlorobenzene	1	0										
C44	1	0										
O-Terphenyl	1	0	6.59	(6.55 - 6.63)								
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD34453-001
Client Id: SB-70 (6-8)
Data File: 13M26143.D
Analysis Date: 11/11/22 19:25
Date Rec/Extracted: 11/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.64g:10ml
Final Vol: NA
Dilution: 88.7
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	27	U				

Worksheet #: 666398

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26143.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 19:25
Operator : WP
Sample : AD34453-001
Misc : M,MEXT!4
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:09:25 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.687	4526	27.365		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L	

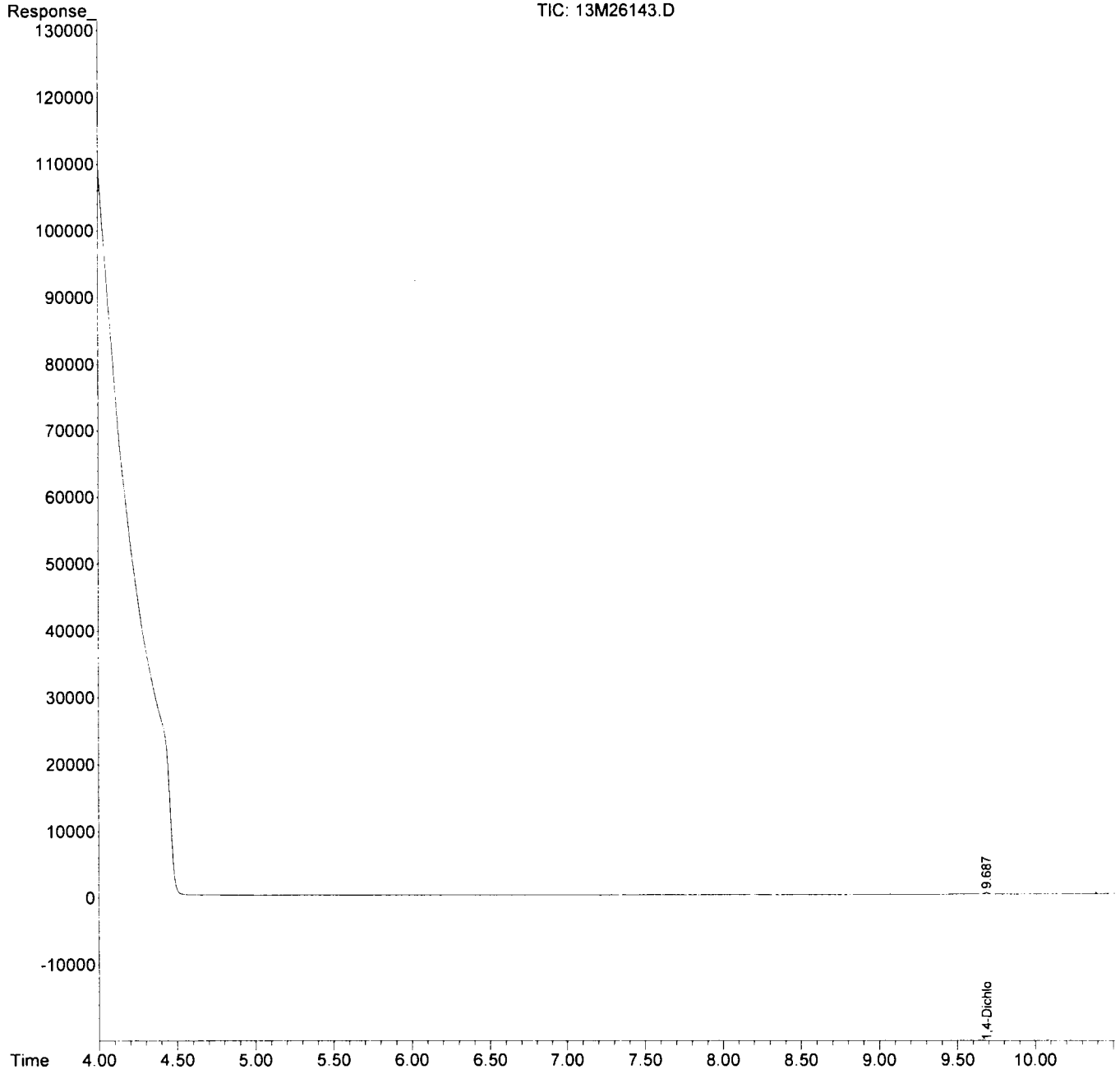
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26143.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 19:25
Operator : WP
Sample : AD34453-001
Misc : M,MEXT!4
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:09:25 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M26142.D
Analysis Date: 11/11/22 19:05
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 666398

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26142.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 19:05
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:09:05 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.686	2915	17.627	m
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L

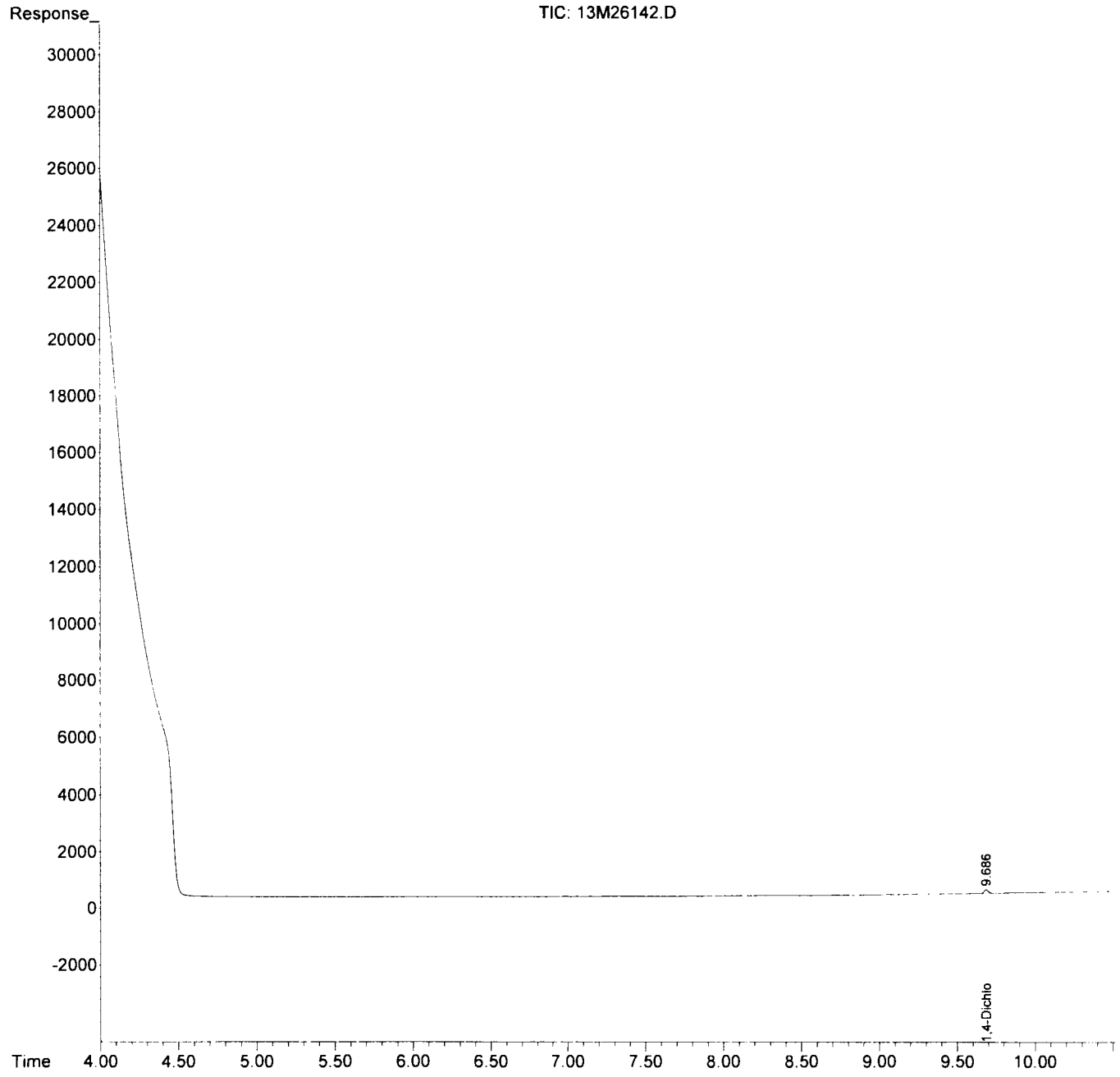
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-11-22\
Data File : 13M26142.D
Signal(s) : FID1A.CH
Acq On : 11 Nov 2022 19:05
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 11 20:09:05 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M26142.D	DAILY BLANK	M	11/11/22 19:05	1		59					
13M26143.D	AD34453-001	M	11/11/22 19:25	1		91					
13M26144.D	AD34490-001	M	11/11/22 19:45	1		101					
13M26148.D	AD34490-001(MS)	M	11/11/22 20:46	1		141					
13M26149.D	AD34490-001(MSD)	M	11/11/22 21:01	1		125					
13M26156.D	MBS105221	M	11/11/22 22:51	1		129					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105221

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26156.D	MBS105221	11/11/2022 10:51:00 P
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1796.88**	**0**	**2000**	**90**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105221

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26148.D	AD34490-001(MS)	11/11/2022 8:46:00 PM
Non Spike(If applicable):	13M26144.D	AD34490-001	11/11/2022 7:45:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	2157.91	0	2000	108	11	181

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26149.D	AD34490-001(MSD)	11/11/2022 9:01:00 PM
Non Spike(If applicable):	13M26144.D	AD34490-001	11/11/2022 7:45:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	1950.21	0	2000	98	11	181

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105221

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26149.D	AD34490-001(MSD)	11/11/2022 9:01:00 PM
Duplicate(If applicable):	13M26148.D	AD34490-001(MS)	11/11/2022 8:46:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**1950.21**	**2157.91**	**10**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M26142.D
Matrix: Methanol

Blank Analysis Date: 11/11/22 19:05
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34453-001	13M26143.D	11/11/22 19:25
MBS105221	13M26156.D	11/11/22 22:51
AD34490-001(MSD	13M26149.D	11/11/22 21:01
AD34490-001(MS)	13M26148.D	11/11/22 20:46
AD34490-001	13M26144.D	11/11/22 19:45

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26015.D	CAL@ 250 PPB	10/24/22 20:14	Aqueous	13M2602	9.6659	0.1675		
13M26016.D	CAL@ 500 PPB	10/24/22 20:29	Aqueous	13M2602	9.6742	0.0816		
13M26017.D	CAL@ 750 PPB	10/24/22 20:44	Aqueous	13M2602	9.6732	0.092		
13M26018.D	CAL@ 1000 PPB	10/24/22 21:05	Aqueous	13M2602	9.6742	0.0816		
13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	Aqueous	13M2602	9.6740	0.0837		
13M26020.D	CAL@ 2000 PPB	10/24/22 21:37	Aqueous	13M2602	9.6750	0.0734		
13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	Aqueous	13M2602	9.6821	0		
13M26022.D	6000 PPB	10/24/22 22:08	Aqueous	13M2602	9.6832	0.0114		
13M26025.D	ICV	10/24/22 23:06	Aqueous	13M2602	9.6821	0		
13M26026.D	CAL @ 2000 PPB	10/24/22 23:21	Aqueous	13M2602	9.6729	0.0951		
13M26028.D	DAILY BLANK	10/24/22 23:56	Methanol	13M2602	9.6806	0.0796		
13M26029.D	DAILY BLANK	10/25/22 00:47	Aqueous	13M2602	9.6808	0.0816		
13M26030.D	MDL @ 250 PPB	10/25/22 01:02	Aqueous	13M2602	9.6706	0.0238		
13M26031.D	MDL @ 250 PPB	10/25/22 01:17	Aqueous	13M2602	9.6710	0.0197		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_13

Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26137.D	CAL @ 2000 PPB	11/11/22 17:43	Aqueous	13M2613	9.7060	0		
13M26140.D	BLK	11/11/22 18:30	Methanol	13M2613	9.6850	0.2166		
13M26141.D	DAILY BLANK	11/11/22 18:48	Aqueous	13M2613	9.6982	0.0804		
13M26142.D	DAILY BLANK	11/11/22 19:05	Methanol	13M2613	9.6857	0.2094		
13M26143.D	AD34453-001	11/11/22 19:25	Methanol	13M2613	9.6874	0.1918		
13M26144.D	AD34490-001	11/11/22 19:45	Methanol	13M2613	9.6879	0.1867		
13M26145.D	AD34490-002	11/11/22 20:00	Methanol	13M2613	9.6771	0.2982		
13M26146.D	AD34408-010	11/11/22 20:15	Methanol	13M2613	9.6784	0.2848		
13M26147.D	AD34408-009	11/11/22 20:30	Methanol	13M2613	9.6801	0.2672		
13M26148.D	AD34490-001(MS)	11/11/22 20:46	Methanol	13M2613	9.6825	0.2424		
13M26149.D	AD34490-001(MSD)	11/11/22 21:01	Methanol	13M2613	9.6790	0.2786		
13M26150.D	STD	11/11/22 21:16	Methanol	13M2613	9.6760	0.3096		
13M26151.D	MBS105212	11/11/22 21:31	Aqueous	13M2613	9.6751	0.3189		
13M26152.D	BLK	11/11/22 21:47	Aqueous	13M2613	0.0000	200		
13M26153.D	BLK	11/11/22 22:05	Aqueous	13M2613	0.0000	200		
13M26154.D	34014-004(10X)	11/11/22 22:21	Aqueous	13M2613	9.6772	0.2972		
13M26155.D	34201-003(80uL)	11/11/22 22:36	Methanol	13M2613	9.6816	0.2517		
13M26156.D	MBS105221	11/11/22 22:51	Methanol	13M2613	9.6779	0.2899		
13M26157.D	2000 PPB	11/11/22 23:08	Aqueous	13M2613	9.6868	0.198		
13M26158.D	AD34451-010	11/11/22 23:24	Methanol	13M2613	9.6788	0.2806		
13M26159.D	AD34451-011	11/11/22 23:39	Methanol	13M2613	9.6790	0.2786		
13M26160.D	AD34451-012	11/11/22 23:54	Methanol	13M2613	9.6759	0.3106		
13M26161.D	AD34451-013	11/12/22 00:10	Methanol	13M2613	9.6758	0.3116		
13M26162.D	AD34451-014	11/12/22 00:25	Methanol	13M2613	0.0000	200		
13M26163.D	AD34451-015	11/12/22 00:41	Methanol	13M2613	9.6805	0.2631		
13M26164.D	AD34451-016	11/12/22 00:56	Methanol	13M2613	9.6807	0.261		
13M26165.D	AD34451-017	11/12/22 01:13	Methanol	13M2613	9.6791	0.2775		
13M26167.D	CAL @ 2000 PPB	11/12/22 01:45	Aqueous	13M2613	9.6871	0.1949		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2111003 0082

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	2	13M26020.D	CAL@ 2000 PPB	10/24/22 21:37
3	13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	4	13M26018.D	CAL@ 1000 PPB	10/24/22 21:05
5	13M26017.D	CAL@ 750 PPB	10/24/22 20:44	6	13M26016.D	CAL@ 500 PPB	10/24/22 20:29
7	13M26015.D	CAL@ 250 PPB	10/24/22 20:14				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	----	0.0193	0.0169	0.0162	0.0133	0.0191	0.0141	----	0.0165	9.71	-1	-1	15		30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0003	0.0003	0.0004	0.0003	0.0002	0.0003	0.0004	----	0.000360	5.60	0.990	0.994	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1.2.4-Trimethylbenzene	1	0	Avg	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	----	0.000460	9.50	0.989	0.999	9.5	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0264	0.0251	0.0264	0.0279	0.0268	0.0309	0.0260	----	0.0271	8.72	0.998	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.09 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whehter Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:	13M26137.D	13M26167.D
Method:	8015	8015
Calibration Name:	CAL @ 2000 PPB	CAL @ 2000 PPB
Calibration Date/Time	11/11/22 17:43	11/12/22 01:45

Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
Gasoline Range Orga	20	1	0	2171	2000	8.6	1985	2000	0.8									

Flags/Notes: **** - Values outside of limits for this column/run***

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 2111003**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD34453-001	SB-70 (6-8)	Soil	1	82	Percent			11/11/22	11/10/22	11/07/22

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-14079

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD34451-021	87	87.16667	Percent	1.34	13.34	11.80	11/11/22	BEENA	1.2	5
Sample	AD34451-021	88	88.18011	Percent	1.34	12.00	10.74	11/11/22	BEENA		
Sample	AD34451-022	92	91.54691	Percent	1.33	13.16	12.16	11/11/22	BEENA		
Sample	AD34451-023	92	91.80188	Percent	1.34	13.05	12.09	11/11/22	BEENA		
Sample	AD34451-024	91	91.35308	Percent	1.35	13.84	12.76	11/11/22	BEENA		
Sample	AD34451-025	89	89.44147	Percent	1.33	14.40	13.02	11/11/22	BEENA		
Sample	AD34451-026	90	90.16522	Percent	1.33	14.04	12.79	11/11/22	BEENA		
Sample	AD34451-027	92	91.84581	Percent	1.34	14.83	13.73	11/11/22	BEENA		
Sample	AD34451-028	87	86.52424	Percent	1.35	13.52	11.88	11/11/22	BEENA		
Sample	AD34451-029	93	93.49195	Percent	1.34	15.63	14.70	11/11/22	BEENA		
Sample	AD34451-030	92	92.17516	Percent	1.33	15.26	14.17	11/11/22	BEENA		
Sample	AD34451-031	87	87.04082	Percent	1.32	11.12	9.85	11/11/22	BEENA		
Sample	AD34451-032	89	88.52596	Percent	1.33	13.27	11.91	11/11/22	BEENA		
Sample	AD34451-033	88	88.21376	Percent	1.34	15.00	13.40	11/11/22	BEENA		
Sample	AD34451-034	91	90.71661	Percent	1.34	13.62	12.48	11/11/22	BEENA		
Sample	AD34451-035	91	90.65934	Percent	1.35	19.55	17.85	11/11/22	BEENA		
Sample	AD34451-036	87	86.66667	Percent	1.35	15.90	13.96	11/11/22	BEENA		
Sample	AD34453-001	82	82.38289	Percent	1.34	20.98	17.52	11/11/22	BEENA		
Sample	AD34455-001	8.1	8.10811	Percent	1.33	12.06	2.20	11/11/22	BEENA		
Sample	AD34469-001	89	88.72802	Percent	1.34	11.01	9.92	11/11/22	BEENA		
Sample	AD34469-002	90	89.98935	Percent	1.34	10.73	9.79	11/11/22	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

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Project: WMATA

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Env. Srvs Building & Constuction
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Attn: Rinzova Renthlei/Jeff Martineau

Received Date: 10/10/2022

Report Date: 10/28/2022

Deliverables: MDE-R

Lab ID: AD33806

Lab Project No: 2101107

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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Form 1 Sample Results

Inorganic Spreadsheet / QC Summary

Sample Summary

Client: Intertek-PSI
Project: WMATA

HC Project #: 2101107

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD33806-001	SB-62SS(6')	Soil	10/10/2022	10/10/2022
AD33806-002	SB-62SS(14'-16')	Soil	10/10/2022	10/10/2022
AD33806-003	SB-63SS(6')	Soil	10/10/2022	10/10/2022
AD33806-004	SB-63SS(14')	Soil	10/10/2022	10/10/2022
AD33806-005	SB-64SS(6')	Soil	10/10/2022	10/10/2022
AD33806-006	SB-64SS(14-15')	Soil	10/10/2022	10/10/2022
AD33806-007	SB-67AS(8-10')	Soil	10/10/2022	10/10/2022

HC Case Narrative

Client: Intertek-PSI **HC Project:** 2101107
Project: WMATA

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 103329 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The Matrix Spike and/or Matrix Spike Duplicate for batch 103329 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD33806-004 had one or more surrogates outside QC limits. Please refer to the applicable Form 2 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

There is no surrogate recovery data for sample AD33806-006 due to high sample dilution. Please refer to the applicable Form 2 for the recoveries.

Diesel Range Organics Analysis:

There is no surrogate recovery data for sample AD33806-006 due to high sample dilution. Please refer to the applicable Form 2 for the recoveries.

Gasoline Range Organics Analysis:

The MSD RPD for batch 105010 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Sample AD33806-007 had one or more surrogate recoveries outside QC limits. The sample was reanalyzed confirming recoveries outside QC limits due to matrix interference. The initial analysis is reported. Please refer to the applicable Form 2 for the recoveries.

Data conforms to method requirements.

Wet Chemistry Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

10/28/22
Date

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2101107

Project: WMATA

Lab#: AD33806-001 **Sample ID: SB-62SS(6')**

Analyte	Units	RL	Result	Analytical Method
Anthracene	mg/kg	0.035	0.041	EPA 8270E
Benzo[a]anthracene	mg/kg	0.035	0.13	EPA 8270E
Benzo[a]pyrene	mg/kg	0.035	0.12	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.035	0.19	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.035	0.10	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.035	0.047	EPA 8270E
Chrysene	mg/kg	0.035	0.13	EPA 8270E
Dibenzofuran	mg/kg	0.0092	0.0094	EPA 8270E
Fluoranthene	mg/kg	0.035	0.25	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.035	0.085	EPA 8270E
Naphthalene	mg/kg	0.0089	0.011	EPA 8270E
Phenanthrene	mg/kg	0.035	0.16	EPA 8270E
Pyrene	mg/kg	0.035	0.23	EPA 8270E

Lab#: AD33806-002 **Sample ID: SB-62SS(14'-16')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	73	140	EPA 8015D
Gasoline Range Organics	mg/kg	27	260	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	73	270	EPA 8015D
Acenaphthene	mg/kg	0.041	0.092	EPA 8270E
Acenaphthylene	mg/kg	0.041	0.087	EPA 8270E
Anthracene	mg/kg	0.041	0.39	EPA 8270E
Benzo[a]anthracene	mg/kg	0.041	1.7	EPA 8270E
Benzo[a]pyrene	mg/kg	0.041	1.6	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.041	2.1	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.041	0.94	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.041	0.69	EPA 8270E
Carbazole	mg/kg	0.041	0.095	EPA 8270E
Chrysene	mg/kg	0.041	1.6	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.041	0.27	EPA 8270E
Dibenzofuran	mg/kg	0.011	0.057	EPA 8270E
Fluoranthene	mg/kg	0.041	2.9	EPA 8270E
Fluorene	mg/kg	0.041	0.14	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.041	0.91	EPA 8270E
Naphthalene	mg/kg	0.010	0.024	EPA 8270E
Phenanthrene	mg/kg	0.041	1.1	EPA 8270E
Pyrene	mg/kg	0.041	2.5	EPA 8270E

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2101107

Project: WMATA

Lab#: AD33806-003 **Sample ID: SB-63SS(6')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	77	140	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	77	420	EPA 8015D
Acenaphthylene	mg/kg	0.043	0.048	EPA 8270E
Anthracene	mg/kg	0.043	0.14	EPA 8270E
Benzo[a]anthracene	mg/kg	0.043	0.46	EPA 8270E
Benzo[a]pyrene	mg/kg	0.043	0.43	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.043	0.56	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.043	0.35	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.043	0.22	EPA 8270E
Chrysene	mg/kg	0.043	0.47	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.043	0.081	EPA 8270E
Dibenzofuran	mg/kg	0.011	0.022	EPA 8270E
Fluoranthene	mg/kg	0.043	0.81	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.043	0.29	EPA 8270E
Naphthalene	mg/kg	0.011	0.019	EPA 8270E
Phenanthrene	mg/kg	0.043	0.47	EPA 8270E
Pyrene	mg/kg	0.043	0.79	EPA 8270E

Lab#: AD33806-004 **Sample ID: SB-63SS(14')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	230	2800	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	230	4300	EPA 8015D
Acenaphthene	mg/kg	0.13	0.17	EPA 8270E
Acenaphthylene	mg/kg	0.13	0.24	EPA 8270E
Anthracene	mg/kg	0.13	0.52	EPA 8270E
Benzo[a]anthracene	mg/kg	0.13	1.8	EPA 8270E
Benzo[a]pyrene	mg/kg	0.13	1.7	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.13	2.7	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.13	0.99	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.13	0.74	EPA 8270E
Chrysene	mg/kg	0.13	1.7	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.13	0.27	EPA 8270E
Dibenzofuran	mg/kg	0.034	0.12	EPA 8270E
Fluoranthene	mg/kg	0.13	3.1	EPA 8270E
Fluorene	mg/kg	0.13	0.27	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.13	0.91	EPA 8270E
Naphthalene	mg/kg	0.032	0.054	EPA 8270E
Phenanthrene	mg/kg	0.13	1.4	EPA 8270E
Pyrene	mg/kg	0.13	2.7	EPA 8270E

HC Executive Summary

Client: Intertek-PSI **HC Project #:** 2101107

Project: WMATA

Lab#: AD33806-005 **Sample ID: SB-64SS(6')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	70	190	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	70	540	EPA 8015D
2-Methylnaphthalene	mg/kg	0.039	0.042	EPA 8270E
Acenaphthene	mg/kg	0.039	0.18	EPA 8270E
Acenaphthylene	mg/kg	0.039	0.061	EPA 8270E
Anthracene	mg/kg	0.039	0.31	EPA 8270E
Benzo[a]anthracene	mg/kg	0.039	0.87	EPA 8270E
Benzo[a]pyrene	mg/kg	0.039	0.74	EPA 8270E
Benzo[b]fluoranthene	mg/kg	0.039	1.1	EPA 8270E
Benzo[g,h,i]perylene	mg/kg	0.039	0.41	EPA 8270E
Benzo[k]fluoranthene	mg/kg	0.039	0.27	EPA 8270E
Carbazole	mg/kg	0.039	0.20	EPA 8270E
Chrysene	mg/kg	0.039	0.80	EPA 8270E
Dibenzo[a,h]anthracene	mg/kg	0.039	0.11	EPA 8270E
Dibenzofuran	mg/kg	0.010	0.12	EPA 8270E
Fluoranthene	mg/kg	0.039	1.7	EPA 8270E
Fluorene	mg/kg	0.039	0.20	EPA 8270E
Indeno[1,2,3-cd]pyrene	mg/kg	0.039	0.39	EPA 8270E
Naphthalene	mg/kg	0.0097	0.085	EPA 8270E
Phenanthrene	mg/kg	0.039	1.5	EPA 8270E
Pyrene	mg/kg	0.039	1.5	EPA 8270E

Lab#: AD33806-006 **Sample ID: SB-64SS(14-15')**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	mg/kg	750	8300	EPA 8015D
Gasoline Range Organics	mg/kg	1100	5700	EPA 8015D
Total Petroleum Hydrocarbons	mg/kg	750	15000	EPA 8015D
2-Methylnaphthalene	mg/kg	1.2	12	EPA 8270E
Benzo[b]fluoranthene	mg/kg	1.2	1.3	EPA 8270E
Dibenzofuran	mg/kg	0.32	0.59	EPA 8270E
Fluoranthene	mg/kg	1.2	2.2	EPA 8270E
Phenanthrene	mg/kg	1.2	1.8	EPA 8270E
Pyrene	mg/kg	1.2	2.7	EPA 8270E

Lab#: AD33806-007 **Sample ID: SB-67AS(8-10')**

Analyte	Units	RL	Result	Analytical Method
Total Petroleum Hydrocarbons	mg/kg	77	140	EPA 8015D
Benzo[b]fluoranthene	mg/kg	0.043	0.054	EPA 8270E
Fluoranthene	mg/kg	0.043	0.056	EPA 8270E
Naphthalene	mg/kg	0.011	0.021	EPA 8270E
Pyrene	mg/kg	0.043	0.049	EPA 8270E

HC Report of Analysis

Client: Intertek-PSI
Project: WMATA

HC Project #: 2101107

Sample ID: SB-62SS(6')
Lab#: AD33806-001
Matrix: Soil

Collection Date: 10/10/2022
Receipt Date: 10/10/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**94**

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	64	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	100	mg/kg	27	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.035	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.035	ND
1,2-Diphenylhydrazine	1	mg/kg	0.035	ND
1,4-Dioxane	1	mg/kg	0.010	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.035	ND
2,4,5-Trichlorophenol	1	mg/kg	0.035	ND
2,4,6-Trichlorophenol	1	mg/kg	0.035	ND
2,4-Dichlorophenol	1	mg/kg	0.011	ND
2,4-Dimethylphenol	1	mg/kg	0.020	ND
2,4-Dinitrophenol	1	mg/kg	0.18	ND
2,4-Dinitrotoluene	1	mg/kg	0.035	ND
2,6-Dinitrotoluene	1	mg/kg	0.035	ND
2-Chloronaphthalene	1	mg/kg	0.035	ND
2-Chlorophenol	1	mg/kg	0.035	ND
2-Methylnaphthalene	1	mg/kg	0.035	ND
2-Methylphenol	1	mg/kg	0.011	ND
2-Nitroaniline	1	mg/kg	0.035	ND
2-Nitrophenol	1	mg/kg	0.035	ND
3&4-Methylphenol	1	mg/kg	0.012	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.035	ND
3-Nitroaniline	1	mg/kg	0.035	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.18	ND
4-Bromophenyl-phenylether	1	mg/kg	0.035	ND
4-Chloro-3-methylphenol	1	mg/kg	0.035	ND
4-Chloroaniline	1	mg/kg	0.012	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.035	ND
4-Nitroaniline	1	mg/kg	0.035	ND
4-Nitrophenol	1	mg/kg	0.035	ND
Acenaphthene	1	mg/kg	0.035	ND
Acenaphthylene	1	mg/kg	0.035	ND
Acetophenone	1	mg/kg	0.035	ND
Anthracene	**1**	**mg/kg**	**0.035**	**0.041**
Atrazine	1	mg/kg	0.035	ND
Benzaldehyde	1	mg/kg	0.035	ND
Benzidine	1	mg/kg	0.10	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.035**	**0.13**

Sample ID: SB-62SS(6') **Collection Date:** 10/10/2022
Lab#: AD33806-001 **Receipt Date:** 10/10/2022
Matrix: Soil

Benzo[a]pyrene	**1**	**mg/kg**	**0.035**	**0.12**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.035**	**0.19**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.035**	**0.10**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.035**	**0.047**
Benzyl alcohol	1	mg/kg	0.035	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.035	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.011	ND
bis(2-Chloroisopropyl)ether	1	mg/kg	0.035	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.32	ND
Butylbenzylphthalate	1	mg/kg	0.035	ND
Caprolactam	1	mg/kg	0.035	ND
Carbazole	1	mg/kg	0.035	ND
Chrysene	**1**	**mg/kg**	**0.035**	**0.13**
Dibenzo[a,h]anthracene	1	mg/kg	0.035	ND
Dibenzofuran	**1**	**mg/kg**	**0.0092**	**0.0094**
Diethylphthalate	1	mg/kg	0.63	ND
Dimethylphthalate	1	mg/kg	0.035	ND
Di-n-butylphthalate	1	mg/kg	0.85	ND
Di-n-octylphthalate	1	mg/kg	0.035	ND
Fluoranthene	**1**	**mg/kg**	**0.035**	**0.25**
Fluorene	1	mg/kg	0.035	ND
Hexachlorobenzene	1	mg/kg	0.035	ND
Hexachlorobutadiene	1	mg/kg	0.035	ND
Hexachlorocyclopentadiene	1	mg/kg	0.12	ND
Hexachloroethane	1	mg/kg	0.035	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.035**	**0.085**
Isophorone	1	mg/kg	0.035	ND
Naphthalene	**1**	**mg/kg**	**0.0089**	**0.011**
Nitrobenzene	1	mg/kg	0.035	ND
N-Nitrosodimethylamine	1	mg/kg	0.035	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.0091	ND
N-Nitrosodiphenylamine	1	mg/kg	0.035	ND
Pentachlorophenol	1	mg/kg	0.18	ND
Phenanthrene	**1**	**mg/kg**	**0.035**	**0.16**
Phenol	1	mg/kg	0.035	ND
Pyrene	**1**	**mg/kg**	**0.035**	**0.23**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	mg/kg	64	ND

Sample ID: SB-62SS(14'-16')
Lab#: AD33806-002
Matrix: Soil

Collection Date: 10/10/2022
Receipt Date: 10/10/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	73	140

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	88.8	mg/kg	27	260

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.041	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.041	ND
1,2-Diphenylhydrazine	1	mg/kg	0.041	ND
1,4-Dioxane	1	mg/kg	0.012	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.041	ND
2,4,5-Trichlorophenol	1	mg/kg	0.041	ND
2,4,6-Trichlorophenol	1	mg/kg	0.041	ND
2,4-Dichlorophenol	1	mg/kg	0.013	ND
2,4-Dimethylphenol	1	mg/kg	0.023	ND
2,4-Dinitrophenol	1	mg/kg	0.20	ND
2,4-Dinitrotoluene	1	mg/kg	0.041	ND
2,6-Dinitrotoluene	1	mg/kg	0.041	ND
2-Chloronaphthalene	1	mg/kg	0.041	ND
2-Chlorophenol	1	mg/kg	0.041	ND
2-Methylnaphthalene	1	mg/kg	0.041	ND
2-Methylphenol	1	mg/kg	0.013	ND
2-Nitroaniline	1	mg/kg	0.041	ND
2-Nitrophenol	1	mg/kg	0.041	ND
3&4-Methylphenol	1	mg/kg	0.013	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.041	ND
3-Nitroaniline	1	mg/kg	0.041	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.20	ND
4-Bromophenyl-phenylether	1	mg/kg	0.041	ND
4-Chloro-3-methylphenol	1	mg/kg	0.041	ND
4-Chloroaniline	1	mg/kg	0.014	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.041	ND
4-Nitroaniline	1	mg/kg	0.041	ND
4-Nitrophenol	1	mg/kg	0.041	ND
Acenaphthene	**1**	**mg/kg**	**0.041**	**0.092**
Acenaphthylene	**1**	**mg/kg**	**0.041**	**0.087**
Acetophenone	1	mg/kg	0.041	ND
Anthracene	**1**	**mg/kg**	**0.041**	**0.39**
Atrazine	1	mg/kg	0.041	ND
Benzaldehyde	1	mg/kg	0.041	ND
Benzidine	1	mg/kg	0.12	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.041**	**1.7**
Benzo[a]pyrene	**1**	**mg/kg**	**0.041**	**1.6**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.041**	**2.1**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.041**	**0.94**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.041**	**0.69**
Benzyl alcohol	1	mg/kg	0.041	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.041	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.013	ND

Sample ID: SB-62SS(14'-16') **Collection Date:** 10/10/2022
Lab#: AD33806-002 **Receipt Date:** 10/10/2022
Matrix: Soil

bis(2-Chloroisopropyl)ether	1	mg/kg	0.041	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.37	ND
Butylbenzylphthalate	1	mg/kg	0.041	ND
Caprolactam	1	mg/kg	0.041	ND
Carbazole	**1**	**mg/kg**	**0.041**	**0.095**
Chrysene	**1**	**mg/kg**	**0.041**	**1.6**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.041**	**0.27**
Dibenzofuran	**1**	**mg/kg**	**0.011**	**0.057**
Diethylphthalate	1	mg/kg	0.72	ND
Dimethylphthalate	1	mg/kg	0.041	ND
Di-n-butylphthalate	1	mg/kg	0.97	ND
Di-n-octylphthalate	1	mg/kg	0.041	ND
Fluoranthene	**1**	**mg/kg**	**0.041**	**2.9**
Fluorene	**1**	**mg/kg**	**0.041**	**0.14**
Hexachlorobenzene	1	mg/kg	0.041	ND
Hexachlorobutadiene	1	mg/kg	0.041	ND
Hexachlorocyclopentadiene	1	mg/kg	0.14	ND
Hexachloroethane	1	mg/kg	0.041	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.041**	**0.91**
Isophorone	1	mg/kg	0.041	ND
Naphthalene	**1**	**mg/kg**	**0.010**	**0.024**
Nitrobenzene	1	mg/kg	0.041	ND
N-Nitrosodimethylamine	1	mg/kg	0.041	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.010	ND
N-Nitrosodiphenylamine	1	mg/kg	0.041	ND
Pentachlorophenol	1	mg/kg	0.20	ND
Phenanthrene	**1**	**mg/kg**	**0.041**	**1.1**
Phenol	1	mg/kg	0.041	ND
Pyrene	**1**	**mg/kg**	**0.041**	**2.5**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**73**	**270**

Sample ID: SB-63SS(6') **Collection Date:** 10/10/2022
Lab#: AD33806-003 **Receipt Date:** 10/10/2022
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		78

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	77	140

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	90.1	mg/kg	29	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.043	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.043	ND
1,2-Diphenylhydrazine	1	mg/kg	0.043	ND
1,4-Dioxane	1	mg/kg	0.012	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.043	ND
2,4,5-Trichlorophenol	1	mg/kg	0.043	ND
2,4,6-Trichlorophenol	1	mg/kg	0.043	ND
2,4-Dichlorophenol	1	mg/kg	0.014	ND
2,4-Dimethylphenol	1	mg/kg	0.024	ND
2,4-Dinitrophenol	1	mg/kg	0.21	ND
2,4-Dinitrotoluene	1	mg/kg	0.043	ND
2,6-Dinitrotoluene	1	mg/kg	0.043	ND
2-Chloronaphthalene	1	mg/kg	0.043	ND
2-Chlorophenol	1	mg/kg	0.043	ND
2-Methylnaphthalene	1	mg/kg	0.043	ND
2-Methylphenol	1	mg/kg	0.013	ND
2-Nitroaniline	1	mg/kg	0.043	ND
2-Nitrophenol	1	mg/kg	0.043	ND
3&4-Methylphenol	1	mg/kg	0.014	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.043	ND
3-Nitroaniline	1	mg/kg	0.043	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.21	ND
4-Bromophenyl-phenylether	1	mg/kg	0.043	ND
4-Chloro-3-methylphenol	1	mg/kg	0.043	ND
4-Chloroaniline	1	mg/kg	0.015	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.043	ND
4-Nitroaniline	1	mg/kg	0.043	ND
4-Nitrophenol	1	mg/kg	0.043	ND
Acenaphthene	1	mg/kg	0.043	ND
Acenaphthylene	**1**	**mg/kg**	**0.043**	**0.048**
Acetophenone	1	mg/kg	0.043	ND
Anthracene	**1**	**mg/kg**	**0.043**	**0.14**
Atrazine	1	mg/kg	0.043	ND
Benzaldehyde	1	mg/kg	0.043	ND
Benzidine	1	mg/kg	0.12	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.043**	**0.46**
Benzo[a]pyrene	**1**	**mg/kg**	**0.043**	**0.43**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.043**	**0.56**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.043**	**0.35**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.043**	**0.22**
Benzyl alcohol	1	mg/kg	0.043	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.043	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.014	ND

Sample ID: SB-63SS(6') **Collection Date:** 10/10/2022
Lab#: AD33806-003 **Receipt Date:** 10/10/2022
Matrix: Soil

	bis(2-Chloroisopropyl)ether	1	mg/kg	0.043	ND
	bis(2-Ethylhexyl)phthalate	1	mg/kg	0.39	ND
	Butylbenzylphthalate	1	mg/kg	0.043	ND
	Caprolactam	1	mg/kg	0.043	ND
	Carbazole	1	mg/kg	0.043	ND
	Chrysene	**1**	**mg/kg**	**0.043**	**0.47**
	Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.043**	**0.081**
	Dibenzofuran	**1**	**mg/kg**	**0.011**	**0.022**
	Diethylphthalate	1	mg/kg	0.76	ND
	Dimethylphthalate	1	mg/kg	0.043	ND
	Di-n-butylphthalate	1	mg/kg	1.0	ND
	Di-n-octylphthalate	1	mg/kg	0.043	ND
	Fluoranthene	**1**	**mg/kg**	**0.043**	**0.81**
	Fluorene	1	mg/kg	0.043	ND
	Hexachlorobenzene	1	mg/kg	0.043	ND
	Hexachlorobutadiene	1	mg/kg	0.043	ND
	Hexachlorocyclopentadiene	1	mg/kg	0.14	ND
	Hexachloroethane	1	mg/kg	0.043	ND
	Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.043**	**0.29**
	Isophorone	1	mg/kg	0.043	ND
	Naphthalene	**1**	**mg/kg**	**0.011**	**0.019**
	Nitrobenzene	1	mg/kg	0.043	ND
	N-Nitrosodimethylamine	1	mg/kg	0.043	ND
	N-Nitroso-di-n-propylamine	1	mg/kg	0.011	ND
	N-Nitrosodiphenylamine	1	mg/kg	0.043	ND
	Pentachlorophenol	1	mg/kg	0.21	ND
	Phenanthrene	**1**	**mg/kg**	**0.043**	**0.47**
	Phenol	1	mg/kg	0.043	ND
	Pyrene	**1**	**mg/kg**	**0.043**	**0.79**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**77**	**420**

Sample ID: SB-63SS(14') **Collection Date:** 10/10/2022
Lab#: AD33806-004 **Receipt Date:** 10/10/2022
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		77

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	3	mg/kg	230	2800

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	94.2	mg/kg	31	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	3	mg/kg	0.13	ND
1,2,4,5-Tetrachlorobenzene	3	mg/kg	0.13	ND
1,2-Diphenylhydrazine	3	mg/kg	0.13	ND
1,4-Dioxane	3	mg/kg	0.037	ND
2,3,4,6-Tetrachlorophenol	3	mg/kg	0.13	ND
2,4,5-Trichlorophenol	3	mg/kg	0.13	ND
2,4,6-Trichlorophenol	3	mg/kg	0.13	ND
2,4-Dichlorophenol	3	mg/kg	0.042	ND
2,4-Dimethylphenol	3	mg/kg	0.073	ND
2,4-Dinitrophenol	3	mg/kg	0.65	ND
2,4-Dinitrotoluene	3	mg/kg	0.13	ND
2,6-Dinitrotoluene	3	mg/kg	0.13	ND
2-Chloronaphthalene	3	mg/kg	0.13	ND
2-Chlorophenol	3	mg/kg	0.13	ND
2-Methylnaphthalene	3	mg/kg	0.13	ND
2-Methylphenol	3	mg/kg	0.040	ND
2-Nitroaniline	3	mg/kg	0.13	ND
2-Nitrophenol	3	mg/kg	0.13	ND
3&4-Methylphenol	3	mg/kg	0.043	ND
3,3'-Dichlorobenzidine	3	mg/kg	0.13	ND
3-Nitroaniline	3	mg/kg	0.13	ND
4,6-Dinitro-2-methylphenol	3	mg/kg	0.65	ND
4-Bromophenyl-phenylether	3	mg/kg	0.13	ND
4-Chloro-3-methylphenol	3	mg/kg	0.13	ND
4-Chloroaniline	3	mg/kg	0.044	ND
4-Chlorophenyl-phenylether	3	mg/kg	0.13	ND
4-Nitroaniline	3	mg/kg	0.13	ND
4-Nitrophenol	3	mg/kg	0.13	ND
Acenaphthene	**3**	**mg/kg**	**0.13**	**0.17**
Acenaphthylene	**3**	**mg/kg**	**0.13**	**0.24**
Acetophenone	3	mg/kg	0.13	ND
Anthracene	**3**	**mg/kg**	**0.13**	**0.52**
Atrazine	3	mg/kg	0.13	ND
Benzaldehyde	3	mg/kg	0.13	ND
Benzidine	3	mg/kg	0.37	ND
Benzo[a]anthracene	**3**	**mg/kg**	**0.13**	**1.8**
Benzo[a]pyrene	**3**	**mg/kg**	**0.13**	**1.7**
Benzo[b]fluoranthene	**3**	**mg/kg**	**0.13**	**2.7**
Benzo[g,h,i]perylene	**3**	**mg/kg**	**0.13**	**0.99**
Benzo[k]fluoranthene	**3**	**mg/kg**	**0.13**	**0.74**
Benzyl alcohol	3	mg/kg	0.13	ND
bis(2-Chloroethoxy)methane	3	mg/kg	0.13	ND
bis(2-Chloroethyl)ether	3	mg/kg	0.041	ND

Sample ID: SB-63SS(14') **Collection Date:** 10/10/2022
Lab#: AD33806-004 **Receipt Date:** 10/10/2022
Matrix: Soil

bis(2-Chloroisopropyl)ether	3	mg/kg	0.13	ND
bis(2-Ethylhexyl)phthalate	3	mg/kg	1.2	ND
Butylbenzylphthalate	3	mg/kg	0.13	ND
Caprolactam	3	mg/kg	0.13	ND
Carbazole	3	mg/kg	0.13	ND
Chrysene	**3**	**mg/kg**	**0.13**	**1.7**
Dibenzo[a,h]anthracene	**3**	**mg/kg**	**0.13**	**0.27**
Dibenzofuran	**3**	**mg/kg**	**0.034**	**0.12**
Diethylphthalate	3	mg/kg	2.3	ND
Dimethylphthalate	3	mg/kg	0.13	ND
Di-n-butylphthalate	3	mg/kg	3.1	ND
Di-n-octylphthalate	3	mg/kg	0.13	ND
Fluoranthene	**3**	**mg/kg**	**0.13**	**3.1**
Fluorene	**3**	**mg/kg**	**0.13**	**0.27**
Hexachlorobenzene	3	mg/kg	0.13	ND
Hexachlorobutadiene	3	mg/kg	0.13	ND
Hexachlorocyclopentadiene	3	mg/kg	0.43	ND
Hexachloroethane	3	mg/kg	0.13	ND
Indeno[1,2,3-cd]pyrene	**3**	**mg/kg**	**0.13**	**0.91**
Isophorone	3	mg/kg	0.13	ND
Naphthalene	**3**	**mg/kg**	**0.032**	**0.054**
Nitrobenzene	3	mg/kg	0.13	ND
N-Nitrosodimethylamine	3	mg/kg	0.13	ND
N-Nitroso-di-n-propylamine	3	mg/kg	0.033	ND
N-Nitrosodiphenylamine	3	mg/kg	0.13	ND
Pentachlorophenol	3	mg/kg	0.65	ND
Phenanthrene	**3**	**mg/kg**	**0.13**	**1.4**
Phenol	3	mg/kg	0.13	ND
Pyrene	**3**	**mg/kg**	**0.13**	**2.7**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**3**	**mg/kg**	**230**	**4300**

Sample ID: SB-64SS(6') **Collection Date:** 10/10/2022
Lab#: AD33806-005 **Receipt Date:** 10/10/2022
Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	70	190

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	96.5	mg/kg	28	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.039	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.039	ND
1,2-Diphenylhydrazine	1	mg/kg	0.039	ND
1,4-Dioxane	1	mg/kg	0.011	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.039	ND
2,4,5-Trichlorophenol	1	mg/kg	0.039	ND
2,4,6-Trichlorophenol	1	mg/kg	0.039	ND
2,4-Dichlorophenol	1	mg/kg	0.013	ND
2,4-Dimethylphenol	1	mg/kg	0.022	ND
2,4-Dinitrophenol	1	mg/kg	0.19	ND
2,4-Dinitrotoluene	1	mg/kg	0.039	ND
2,6-Dinitrotoluene	1	mg/kg	0.039	ND
2-Chloronaphthalene	1	mg/kg	0.039	ND
2-Chlorophenol	1	mg/kg	0.039	ND
2-Methylnaphthalene	**1**	**mg/kg**	**0.039**	**0.042**
2-Methylphenol	1	mg/kg	0.012	ND
2-Nitroaniline	1	mg/kg	0.039	ND
2-Nitrophenol	1	mg/kg	0.039	ND
3&4-Methylphenol	1	mg/kg	0.013	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.039	ND
3-Nitroaniline	1	mg/kg	0.039	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.19	ND
4-Bromophenyl-phenylether	1	mg/kg	0.039	ND
4-Chloro-3-methylphenol	1	mg/kg	0.039	ND
4-Chloroaniline	1	mg/kg	0.013	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.039	ND
4-Nitroaniline	1	mg/kg	0.039	ND
4-Nitrophenol	1	mg/kg	0.039	ND
Acenaphthene	**1**	**mg/kg**	**0.039**	**0.18**
Acenaphthylene	**1**	**mg/kg**	**0.039**	**0.061**
Acetophenone	1	mg/kg	0.039	ND
Anthracene	**1**	**mg/kg**	**0.039**	**0.31**
Atrazine	1	mg/kg	0.039	ND
Benzaldehyde	1	mg/kg	0.039	ND
Benzidine	1	mg/kg	0.11	ND
Benzo[a]anthracene	**1**	**mg/kg**	**0.039**	**0.87**
Benzo[a]pyrene	**1**	**mg/kg**	**0.039**	**0.74**
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.039**	**1.1**
Benzo[g,h,i]perylene	**1**	**mg/kg**	**0.039**	**0.41**
Benzo[k]fluoranthene	**1**	**mg/kg**	**0.039**	**0.27**
Benzyl alcohol	1	mg/kg	0.039	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.039	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.012	ND

Sample ID: SB-64SS(6') **Collection Date:** 10/10/2022
Lab#: AD33806-005 **Receipt Date:** 10/10/2022
Matrix: Soil

bis(2-Chloroisopropyl)ether	1	mg/kg	0.039	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.35	ND
Butylbenzylphthalate	1	mg/kg	0.039	ND
Caprolactam	1	mg/kg	0.039	ND
Carbazole	**1**	**mg/kg**	**0.039**	**0.20**
Chrysene	**1**	**mg/kg**	**0.039**	**0.80**
Dibenzo[a,h]anthracene	**1**	**mg/kg**	**0.039**	**0.11**
Dibenzofuran	**1**	**mg/kg**	**0.010**	**0.12**
Diethylphthalate	1	mg/kg	0.69	ND
Dimethylphthalate	1	mg/kg	0.039	ND
Di-n-butylphthalate	1	mg/kg	0.93	ND
Di-n-octylphthalate	1	mg/kg	0.039	ND
Fluoranthene	**1**	**mg/kg**	**0.039**	**1.7**
Fluorene	**1**	**mg/kg**	**0.039**	**0.20**
Hexachlorobenzene	1	mg/kg	0.039	ND
Hexachlorobutadiene	1	mg/kg	0.039	ND
Hexachlorocyclopentadiene	1	mg/kg	0.13	ND
Hexachloroethane	1	mg/kg	0.039	ND
Indeno[1,2,3-cd]pyrene	**1**	**mg/kg**	**0.039**	**0.39**
Isophorone	1	mg/kg	0.039	ND
Naphthalene	**1**	**mg/kg**	**0.0097**	**0.085**
Nitrobenzene	1	mg/kg	0.039	ND
N-Nitrosodimethylamine	1	mg/kg	0.039	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.010	ND
N-Nitrosodiphenylamine	1	mg/kg	0.039	ND
Pentachlorophenol	1	mg/kg	0.19	ND
Phenanthrene	**1**	**mg/kg**	**0.039**	**1.5**
Phenol	1	mg/kg	0.039	ND
Pyrene	**1**	**mg/kg**	**0.039**	**1.5**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**70**	**540**

Sample ID: SB-64SS(14-15')
Lab#: AD33806-006
Matrix: Soil
Collection Date: 10/10/2022
Receipt Date: 10/10/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		80

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	10	mg/kg	750	8300

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	3520	mg/kg	1100	5700

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	10	mg/kg	1.2	ND
1,2,4,5-Tetrachlorobenzene	10	mg/kg	1.2	ND
1,2-Diphenylhydrazine	10	mg/kg	1.2	ND
1,4-Dioxane	10	mg/kg	0.36	ND
2,3,4,6-Tetrachlorophenol	10	mg/kg	1.2	ND
2,4,5-Trichlorophenol	10	mg/kg	1.2	ND
2,4,6-Trichlorophenol	10	mg/kg	1.2	ND
2,4-Dichlorophenol	10	mg/kg	0.40	ND
2,4-Dimethylphenol	10	mg/kg	0.70	ND
2,4-Dinitrophenol	10	mg/kg	6.2	ND
2,4-Dinitrotoluene	10	mg/kg	1.2	ND
2,6-Dinitrotoluene	10	mg/kg	1.2	ND
2-Chloronaphthalene	10	mg/kg	1.2	ND
2-Chlorophenol	10	mg/kg	1.2	ND
2-Methylnaphthalene	**10**	**mg/kg**	**1.2**	**12**
2-Methylphenol	10	mg/kg	0.39	ND
2-Nitroaniline	10	mg/kg	1.2	ND
2-Nitrophenol	10	mg/kg	1.2	ND
3&4-Methylphenol	10	mg/kg	0.41	ND
3,3'-Dichlorobenzidine	10	mg/kg	1.2	ND
3-Nitroaniline	10	mg/kg	1.2	ND
4,6-Dinitro-2-methylphenol	10	mg/kg	6.2	ND
4-Bromophenyl-phenylether	10	mg/kg	1.2	ND
4-Chloro-3-methylphenol	10	mg/kg	1.2	ND
4-Chloroaniline	10	mg/kg	0.43	ND
4-Chlorophenyl-phenylether	10	mg/kg	1.2	ND
4-Nitroaniline	10	mg/kg	1.2	ND
4-Nitrophenol	10	mg/kg	1.2	ND
Acenaphthene	10	mg/kg	1.2	ND
Acenaphthylene	10	mg/kg	1.2	ND
Acetophenone	10	mg/kg	1.2	ND
Anthracene	10	mg/kg	1.2	ND
Atrazine	10	mg/kg	1.2	ND
Benzaldehyde	10	mg/kg	1.2	ND
Benzidine	10	mg/kg	3.6	ND
Benzo[a]anthracene	10	mg/kg	1.2	ND
Benzo[a]pyrene	10	mg/kg	1.2	ND
Benzo[b]fluoranthene	**10**	**mg/kg**	**1.2**	**1.3**
Benzo[g,h,i]perylene	10	mg/kg	1.2	ND
Benzo[k]fluoranthene	10	mg/kg	1.2	ND
Benzyl alcohol	10	mg/kg	1.2	ND
bis(2-Chloroethoxy)methane	10	mg/kg	1.2	ND
bis(2-Chloroethyl)ether	10	mg/kg	0.40	ND

Sample ID: SB-64SS(14-15') **Collection Date:** 10/10/2022
Lab#: AD33806-006 **Receipt Date:** 10/10/2022
Matrix: Soil

	bis(2-Chloroisopropyl)ether	10	mg/kg	1.2	ND
	bis(2-Ethylhexyl)phthalate	10	mg/kg	11	ND
	Butylbenzylphthalate	10	mg/kg	1.2	ND
	Caprolactam	10	mg/kg	1.2	ND
	Carbazole	10	mg/kg	1.2	ND
	Chrysene	10	mg/kg	1.2	ND
	Dibenzo[a,h]anthracene	10	mg/kg	1.2	ND
	Dibenzofuran	**10**	**mg/kg**	**0.32**	**0.59**
	Diethylphthalate	10	mg/kg	22	ND
	Dimethylphthalate	10	mg/kg	1.2	ND
	Di-n-butylphthalate	10	mg/kg	30	ND
	Di-n-octylphthalate	10	mg/kg	1.2	ND
	Fluoranthene	**10**	**mg/kg**	**1.2**	**2.2**
	Fluorene	10	mg/kg	1.2	ND
	Hexachlorobenzene	10	mg/kg	1.2	ND
	Hexachlorobutadiene	10	mg/kg	1.2	ND
	Hexachlorocyclopentadiene	10	mg/kg	4.2	ND
	Hexachloroethane	10	mg/kg	1.2	ND
	Indeno[1,2,3-cd]pyrene	10	mg/kg	1.2	ND
	Isophorone	10	mg/kg	1.2	ND
	Naphthalene	10	mg/kg	0.31	ND
	Nitrobenzene	10	mg/kg	1.2	ND
	N-Nitrosodimethylamine	10	mg/kg	1.2	ND
	N-Nitroso-di-n-propylamine	10	mg/kg	0.32	ND
	N-Nitrosodiphenylamine	10	mg/kg	1.2	ND
	Pentachlorophenol	10	mg/kg	6.2	ND
	Phenanthrene	**10**	**mg/kg**	**1.2**	**1.8**
	Phenol	10	mg/kg	1.2	ND
	Pyrene	**10**	**mg/kg**	**1.2**	**2.7**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**10**	**mg/kg**	**750**	**15000**

Sample ID: SB-67AS(8-10')
Lab#: AD33806-007
Matrix: Soil

Collection Date: 10/10/2022
Receipt Date: 10/10/2022

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	**1**	**percent**		**78**

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	mg/kg	77	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	100	mg/kg	32	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	mg/kg	0.043	ND
1,2,4,5-Tetrachlorobenzene	1	mg/kg	0.043	ND
1,2-Diphenylhydrazine	1	mg/kg	0.043	ND
1,4-Dioxane	1	mg/kg	0.012	ND
2,3,4,6-Tetrachlorophenol	1	mg/kg	0.043	ND
2,4,5-Trichlorophenol	1	mg/kg	0.043	ND
2,4,6-Trichlorophenol	1	mg/kg	0.043	ND
2,4-Dichlorophenol	1	mg/kg	0.014	ND
2,4-Dimethylphenol	1	mg/kg	0.024	ND
2,4-Dinitrophenol	1	mg/kg	0.21	ND
2,4-Dinitrotoluene	1	mg/kg	0.043	ND
2,6-Dinitrotoluene	1	mg/kg	0.043	ND
2-Chloronaphthalene	1	mg/kg	0.043	ND
2-Chlorophenol	1	mg/kg	0.043	ND
2-Methylnaphthalene	1	mg/kg	0.043	ND
2-Methylphenol	1	mg/kg	0.013	ND
2-Nitroaniline	1	mg/kg	0.043	ND
2-Nitrophenol	1	mg/kg	0.043	ND
3&4-Methylphenol	1	mg/kg	0.014	ND
3,3'-Dichlorobenzidine	1	mg/kg	0.043	ND
3-Nitroaniline	1	mg/kg	0.043	ND
4,6-Dinitro-2-methylphenol	1	mg/kg	0.21	ND
4-Bromophenyl-phenylether	1	mg/kg	0.043	ND
4-Chloro-3-methylphenol	1	mg/kg	0.043	ND
4-Chloroaniline	1	mg/kg	0.015	ND
4-Chlorophenyl-phenylether	1	mg/kg	0.043	ND
4-Nitroaniline	1	mg/kg	0.043	ND
4-Nitrophenol	1	mg/kg	0.043	ND
Acenaphthene	1	mg/kg	0.043	ND
Acenaphthylene	1	mg/kg	0.043	ND
Acetophenone	1	mg/kg	0.043	ND
Anthracene	1	mg/kg	0.043	ND
Atrazine	1	mg/kg	0.043	ND
Benzaldehyde	1	mg/kg	0.043	ND
Benzidine	1	mg/kg	0.12	ND
Benzo[a]anthracene	1	mg/kg	0.043	ND
Benzo[a]pyrene	1	mg/kg	0.043	ND
Benzo[b]fluoranthene	**1**	**mg/kg**	**0.043**	**0.054**
Benzo[g,h,i]perylene	1	mg/kg	0.043	ND
Benzo[k]fluoranthene	1	mg/kg	0.043	ND
Benzyl alcohol	1	mg/kg	0.043	ND
bis(2-Chloroethoxy)methane	1	mg/kg	0.043	ND
bis(2-Chloroethyl)ether	1	mg/kg	0.014	ND

Sample ID: SB-67AS(8-10') **Collection Date:** 10/10/2022
Lab#: AD33806-007 **Receipt Date:** 10/10/2022
Matrix: Soil

bis(2-Chloroisopropyl)ether	1	mg/kg	0.043	ND
bis(2-Ethylhexyl)phthalate	1	mg/kg	0.39	ND
Butylbenzylphthalate	1	mg/kg	0.043	ND
Caprolactam	1	mg/kg	0.043	ND
Carbazole	1	mg/kg	0.043	ND
Chrysene	1	mg/kg	0.043	ND
Dibenzo[a,h]anthracene	1	mg/kg	0.043	ND
Dibenzofuran	1	mg/kg	0.011	ND
Diethylphthalate	1	mg/kg	0.76	ND
Dimethylphthalate	1	mg/kg	0.043	ND
Di-n-butylphthalate	1	mg/kg	1.0	ND
Di-n-octylphthalate	1	mg/kg	0.043	ND
Fluoranthene	**1**	**mg/kg**	**0.043**	**0.056**
Fluorene	1	mg/kg	0.043	ND
Hexachlorobenzene	1	mg/kg	0.043	ND
Hexachlorobutadiene	1	mg/kg	0.043	ND
Hexachlorocyclopentadiene	1	mg/kg	0.14	ND
Hexachloroethane	1	mg/kg	0.043	ND
Indeno[1,2,3-cd]pyrene	1	mg/kg	0.043	ND
Isophorone	1	mg/kg	0.043	ND
Naphthalene	**1**	**mg/kg**	**0.011**	**0.021**
Nitrobenzene	1	mg/kg	0.043	ND
N-Nitrosodimethylamine	1	mg/kg	0.043	ND
N-Nitroso-di-n-propylamine	1	mg/kg	0.011	ND
N-Nitrosodiphenylamine	1	mg/kg	0.043	ND
Pentachlorophenol	1	mg/kg	0.21	ND
Phenanthrene	1	mg/kg	0.043	ND
Phenol	1	mg/kg	0.043	ND
Pyrene	**1**	**mg/kg**	**0.043**	**0.049**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**mg/kg**	**77**	**140**

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI **HC Project #:** 2101107

Project: WMATA

Lab#: AD33806-001 **Sample ID: SB-62SS(6')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/12/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 09:49	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/14/22 23:51	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/17/22 19:49	CN	EPA 8270E	10/18/22 15:19	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 09:49	AH/ABM/RR/K

Lab#: AD33806-002 **Sample ID: SB-62SS(14'-16')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/12/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 10:15	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/15/22 00:07	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/17/22 19:49	CN	EPA 8270E	10/18/22 17:19	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 10:15	AH/ABM/RR/K

Lab#: AD33806-003 **Sample ID: SB-63SS(6')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/12/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 10:41	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/17/22 18:33	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/17/22 19:49	CN	EPA 8270E	10/18/22 16:31	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 10:41	AH/ABM/RR/K

Lab#: AD33806-004 **Sample ID: SB-63SS(14')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/12/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 12:50	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/15/22 00:40	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/17/22 19:49	CN	EPA 8270E	10/19/22 19:58	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 12:50	AH/ABM/RR/K

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA

HC Project #: 2101107

Lab#: AD33806-005 **Sample ID: SB-64SS(6')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/12/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 11:32	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/15/22 01:02	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/17/22 19:49	CN	EPA 8270E	10/18/22 16:55	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 11:32	AH/ABM/RR/K

Lab#: AD33806-006 **Sample ID: SB-64SS(14-15')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/12/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 12:24	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/17/22 19:38	WP
Semivolatile Organics (no search) 8270	3510C/3550C	10/17/22 19:49	CN	EPA 8270E	10/18/22 18:07	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 12:24	AH/ABM/RR/K

Lab#: AD33806-007 **Sample ID: SB-67AS(8-10')**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
% Solids SM2540G				SM 2540G	10/12/22 00:00	BEENA
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 11:58	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	10/14/22 21:20	AB
Semivolatile Organics (no search) 8270	3510C/3550C	10/17/22 19:49	CN	EPA 8270E	10/18/22 14:28	AH/JB
TPH 8015D (C8-C44)	Mod. Shaker	10/19/22 16:36	CN	EPA 8015D	10/20/22 11:58	AH/ABM/RR/K

Chain of Custody

2101107 0024

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 US Highway 46, STE D and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787
Service Center: 137-C Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

CHAIN OF CUSTODY RECORD

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Project# (Lab Use Only): 210107

Page _____ of _____

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other: _____		Other: _____

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Intertek - PSI
Address: 2930 Eskridge Road, Fairfax VA
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: JEFF.MARTINEAU@INTERTEK.COM
1d) Send Report to: JEFF + RINZOVA.RENTHLEI@INTERTEK

Project Information

2a) Project: WMATA
2b) Project Mgr: JEFF
2c) Project Location (City/State): WASHINGTON DC
2d) Quote/PO # (If Applicable):

FOR LAB USE ONLY ↓

Batch # AD383806

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	SVOC	TPH-DRO/GRO/ORO	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	SB-62SS [redacted](6')	S	10/19/22	1055		X	X	X	1								
002	SB-62SS (14'-16')	S		1055		X	X	X	1								
003	SB-63SS [redacted](6')	S		1120		X	X	X	1								
004	SB-63SS [redacted](14')	S		1120		X	X	X	1								
005	SB-64SS (6')	S		1150		X	X	X	1								
006	SB-64SS (14-15)	S		1150		X	X	X	1								
007	SB-67AS (8-10)	S	↓	12:00		X	X	X	1								

10) Relinquished by:	Accepted by:	Date	Time
[signature]	Shantel Rabbe	10/19/22	1350

11) Sampler (print name): Date:

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.7

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD33806 Entered By: srobles

Date Entered 10/11/2022 10:37:00 A

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	No	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.7
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD33806-001	10/10/22 13:50	SROB	0	M	Received
AD33806-001	10/11/22 10:37	SROB	0	M	Login
AD33806-001	10/12/22 12:10	R30	1	A	NONE
AD33806-001	10/12/22 16:51	AB	1	A	VOA
AD33806-001	10/12/22 18:13	R30	1	A	NONE
AD33806-001	10/14/22 18:31	AB	1	A	CRO
AD33806-001	10/14/22 18:33	R30	1	A	NONE
AD33806-001	10/11/22 13:48	R12	2	A	NONE
AD33806-001	10/11/22 23:45	PA	2	A	mx
AD33806-001	10/11/22 23:46	R12	2	A	NONE
AD33806-001	10/12/22 08:35	BCT	2	A	SOLIDS
AD33806-001	10/12/22 10:48	R12	2	A	NONE
AD33806-001	10/17/22 19:49	CN	2	A	BNA-SOIL
AD33806-001	10/17/22 19:50	R12	2	A	NONE
AD33806-001	10/19/22 16:36	CN	2	A	TPH-SOIL
AD33806-001	10/19/22 16:37	R12	2	A	NONE
AD33806-001	10/14/22 17:51	R31	9	A	NONE
AD33806-002	10/10/22 13:50	SROB	0	M	Received
AD33806-002	10/11/22 10:37	SROB	0	M	Login
AD33806-002	10/12/22 12:10	R30	1	A	NONE
AD33806-002	10/12/22 16:51	AB	1	A	VOA
AD33806-002	10/12/22 18:13	R30	1	A	NONE
AD33806-002	10/14/22 18:31	AB	1	A	CRO
AD33806-002	10/14/22 18:33	R30	1	A	NONE
AD33806-002	10/11/22 13:48	R12	2	A	NONE
AD33806-002	10/11/22 23:45	PA	2	A	mx
AD33806-002	10/11/22 23:46	R12	2	A	NONE
AD33806-002	10/12/22 08:35	BCT	2	A	SOLIDS
AD33806-002	10/12/22 10:48	R12	2	A	NONE
AD33806-002	10/17/22 19:49	CN	2	A	BNA-SOIL
AD33806-002	10/17/22 19:50	R12	2	A	NONE
AD33806-002	10/19/22 16:36	CN	2	A	TPH-SOIL
AD33806-002	10/19/22 16:37	R12	2	A	NONE
AD33806-002	10/14/22 17:51	R31	7	A	NONE
AD33806-003	10/10/22 13:50	SROB	0	M	Received
AD33806-003	10/11/22 10:37	SROB	0	M	Login
AD33806-003	10/12/22 12:10	R30	1	A	NONE
AD33806-003	10/12/22 16:51	AB	1	A	VOA
AD33806-003	10/12/22 18:13	R30	1	A	NONE
AD33806-003	10/14/22 18:31	AB	1	A	CRO
AD33806-003	10/14/22 18:33	R30	1	A	NONE
AD33806-003	10/11/22 13:48	R12	2	A	NONE
AD33806-003	10/11/22 23:45	PA	2	A	mx
AD33806-003	10/11/22 23:46	R12	2	A	NONE
AD33806-003	10/12/22 08:35	BCT	2	A	SOLIDS
AD33806-003	10/12/22 10:48	R12	2	A	NONE
AD33806-003	10/17/22 19:49	CN	2	A	BNA-SOIL
AD33806-003	10/17/22 19:50	R12	2	A	NONE
AD33806-003	10/19/22 16:36	CN	2	A	TPH-SOIL
AD33806-003	10/19/22 16:37	R12	2	A	NONE
AD33806-003	10/14/22 17:51	R31	9	A	NONE
AD33806-003	10/17/22 18:00	WP	9	M	GRO
AD33806-003	10/18/22 02:21	R31	9	A	NONE
AD33806-004	10/10/22 13:50	SROB	0	M	Received
AD33806-004	10/11/22 10:37	SROB	0	M	Login
AD33806-004	10/12/22 12:10	R30	1	A	NONE
AD33806-004	10/12/22 16:51	AB	1	A	VOA
AD33806-004	10/12/22 18:13	R30	1	A	NONE
AD33806-004	10/14/22 18:31	AB	1	A	CRO
AD33806-004	10/14/22 18:33	R30	1	A	NONE
AD33806-004	10/11/22 13:48	R12	2	A	NONE
AD33806-004	10/11/22 23:45	PA	2	A	mx
AD33806-004	10/11/22 23:46	R12	2	A	NONE
AD33806-004	10/12/22 08:35	BCT	2	A	SOLIDS
AD33806-004	10/12/22 10:48	R12	2	A	NONE
AD33806-004	10/17/22 19:49	CN	2	A	BNA-SOIL
AD33806-004	10/17/22 19:50	R12	2	A	NONE
AD33806-004	10/19/22 16:36	CN	2	A	TPH-SOIL
AD33806-004	10/19/22 16:37	R12	2	A	NONE
AD33806-004	10/14/22 17:51	R31	9	A	NONE
AD33806-004	10/17/22 18:00	WP	9	M	GRO
AD33806-004	10/18/22 02:21	R31	9	A	NONE
AD33806-005	10/10/22 13:50	SROB	0	M	Received
AD33806-005	10/11/22 10:37	SROB	0	M	Login
AD33806-005	10/12/22 12:10	R30	1	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD33806-005	10/12/22 16:51	AB	1	A	VOA
AD33806-005	10/12/22 18:13	R30	1	A	NONE
AD33806-005	10/14/22 18:31	AB	1	A	CRO
AD33806-005	10/14/22 18:33	R30	1	A	NONE
AD33806-005	10/11/22 13:48	R12	2	A	NONE
AD33806-005	10/11/22 23:45	PA	2	A	mx
AD33806-005	10/11/22 23:46	R12	2	A	NONE
AD33806-005	10/12/22 08:35	BCT	2	A	SOLIDS
AD33806-005	10/12/22 10:48	R12	2	A	NONE
AD33806-005	10/17/22 19:49	CN	2	A	BNA-SOIL
AD33806-005	10/17/22 19:50	R12	2	A	NONE
AD33806-005	10/19/22 16:46	R12	2	A	NONE
AD33806-005	10/19/22 16:46	CN	2	A	TPH-SOIL
AD33806-005	10/14/22 17:51	R31	9	A	NONE
AD33806-006	10/10/22 13:50	SROB	0	M	Received
AD33806-006	10/11/22 10:37	SROB	0	M	Login
AD33806-006	10/12/22 12:10	R30	1	A	NONE
AD33806-006	10/12/22 16:51	AB	1	A	VOA
AD33806-006	10/12/22 18:13	R30	1	A	NONE
AD33806-006	10/14/22 18:31	AB	1	A	CRO
AD33806-006	10/14/22 18:33	R30	1	A	NONE
AD33806-006	10/11/22 13:48	R12	2	A	NONE
AD33806-006	10/11/22 23:45	PA	2	A	mx
AD33806-006	10/11/22 23:46	R12	2	A	NONE
AD33806-006	10/12/22 08:35	BCT	2	A	SOLIDS
AD33806-006	10/12/22 10:48	R12	2	A	NONE
AD33806-006	10/17/22 19:49	CN	2	A	BNA-SOIL
AD33806-006	10/17/22 19:50	R12	2	A	NONE
AD33806-006	10/19/22 16:36	CN	2	A	TPH-SOIL
AD33806-006	10/19/22 16:37	R12	2	A	NONE
AD33806-006	10/14/22 17:51	R31	5	A	NONE
AD33806-006	10/17/22 18:00	WP	5	M	GRO
AD33806-006	10/18/22 02:21	R31	5	A	NONE
AD33806-007	10/10/22 13:50	SROB	0	M	Received
AD33806-007	10/11/22 10:37	SROB	0	M	Login
AD33806-007	10/12/22 12:10	R30	1	A	NONE
AD33806-007	10/13/22 10:00	AB	1	A	GRO
AD33806-007	10/13/22 10:37	R30	1	A	NONE
AD33806-007	10/14/22 18:31	AB	1	A	CRO
AD33806-007	10/14/22 18:33	R30	1	A	NONE
AD33806-007	10/11/22 13:48	R12	2	A	NONE
AD33806-007	10/11/22 23:45	PA	2	A	mx
AD33806-007	10/11/22 23:46	R12	2	A	NONE
AD33806-007	10/12/22 08:35	BCT	2	A	SOLIDS
AD33806-007	10/12/22 10:48	R12	2	A	NONE
AD33806-007	10/17/22 19:49	CN	2	A	BNA-SOIL
AD33806-007	10/17/22 19:50	R12	2	A	NONE
AD33806-007	10/19/22 16:36	CN	2	A	TPH-SOIL
AD33806-007	10/19/22 16:37	R12	2	A	NONE
AD33806-007	10/13/22 12:21	R31	3	A	NONE
AD33806-007	10/14/22 17:51	R31	4	A	NONE

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Base Neutral/Acid Extractable Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33806-001
Client Id: SB-62SS(6')
Data File: 7M124550.D
Analysis Date: 10/18/22 15:19
Date Rec/Extracted: 10/10/22-10/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.035	U	**50-32-8**	**Benzo[a]pyrene**	**0.035**	**0.12**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.035**	**0.19**
122-66-7	1,2-Diphenylhydrazine	0.035	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.035**	**0.10**
123-91-1	1,4-Dioxane	0.010	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.035**	**0.047**
58-90-2	2,3,4,6-Tetrachlorophenol	0.035	U	100-51-6	Benzyl alcohol	0.035	U
95-95-4	2,4,5-Trichlorophenol	0.035	U	111-91-1	bis(2-Chloroethoxy)methan	0.035	U
88-06-2	2,4,6-Trichlorophenol	0.035	U	111-44-4	bis(2-Chloroethyl)ether	0.011	U
120-83-2	2,4-Dichlorophenol	0.011	U	108-60-1	bis(2-chloroisopropyl)ether	0.035	U
105-67-9	2,4-Dimethylphenol	0.020	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.32	U
51-28-5	2,4-Dinitrophenol	0.18	U	85-68-7	Butylbenzylphthalate	0.035	U
121-14-2	2,4-Dinitrotoluene	0.035	U	105-60-2	Caprolactam	0.035	U
606-20-2	2,6-Dinitrotoluene	0.035	U	86-74-8	Carbazole	0.035	U
91-58-7	2-Chloronaphthalene	0.035	U	**218-01-9**	**Chrysene**	**0.035**	**0.13**
95-57-8	2-Chlorophenol	0.035	U	53-70-3	Dibenzo[a,h]anthracene	0.035	U
91-57-6	2-Methylnaphthalene	0.035	U	**132-64-9**	**Dibenzofuran**	**0.0092**	**0.0094**
95-48-7	2-Methylphenol	0.011	U	84-66-2	Diethylphthalate	0.63	U
88-74-4	2-Nitroaniline	0.035	U	131-11-3	Dimethylphthalate	0.035	U
88-75-5	2-Nitrophenol	0.035	U	84-74-2	Di-n-butylphthalate	0.85	U
106-44-5	3&4-Methylphenol	0.012	U	117-84-0	Di-n-octylphthalate	0.035	U
91-94-1	3,3'-Dichlorobenzidine	0.035	U	**206-44-0**	**Fluoranthene**	**0.035**	**0.25**
99-09-2	3-Nitroaniline	0.035	U	86-73-7	Fluorene	0.035	U
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	118-74-1	Hexachlorobenzene	0.035	U
101-55-3	4-Bromophenyl-phenylether	0.035	U	87-68-3	Hexachlorobutadiene	0.035	U
59-50-7	4-Chloro-3-methylphenol	0.035	U	77-47-4	Hexachlorocyclopentadiene	0.12	U
106-47-8	4-Chloroaniline	0.012	U	67-72-1	Hexachloroethane	0.035	U
7005-72-3	4-Chlorophenyl-phenylether	0.035	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.035**	**0.085**
100-01-6	4-Nitroaniline	0.035	U	78-59-1	Isophorone	0.035	U
100-02-7	4-Nitrophenol	0.035	U	**91-20-3**	**Naphthalene**	**0.0089**	**0.011**
83-32-9	Acenaphthene	0.035	U	98-95-3	Nitrobenzene	0.035	U
208-96-8	Acenaphthylene	0.035	U	62-75-9	N-Nitrosodimethylamine	0.035	U
98-86-2	Acetophenone	0.035	U	621-64-7	N-Nitroso-di-n-propylamine	0.0091	U
120-12-7	**Anthracene**	**0.035**	**0.041**	86-30-6	n-Nitrosodiphenylamine	0.035	U
1912-24-9	Atrazine	0.035	U	87-86-5	Pentachlorophenol	0.18	U
100-52-7	Benzaldehyde	0.035	U	**85-01-8**	**Phenanthrene**	**0.035**	**0.16**
92-87-5	Benzidine	0.10	U	108-95-2	Phenol	0.035	U
56-55-3	**Benzo[a]anthracene**	**0.035**	**0.13**	**129-00-0**	**Pyrene**	**0.035**	**0.23**

Worksheet #: 661854 *Total Target Concentration* 1.5 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

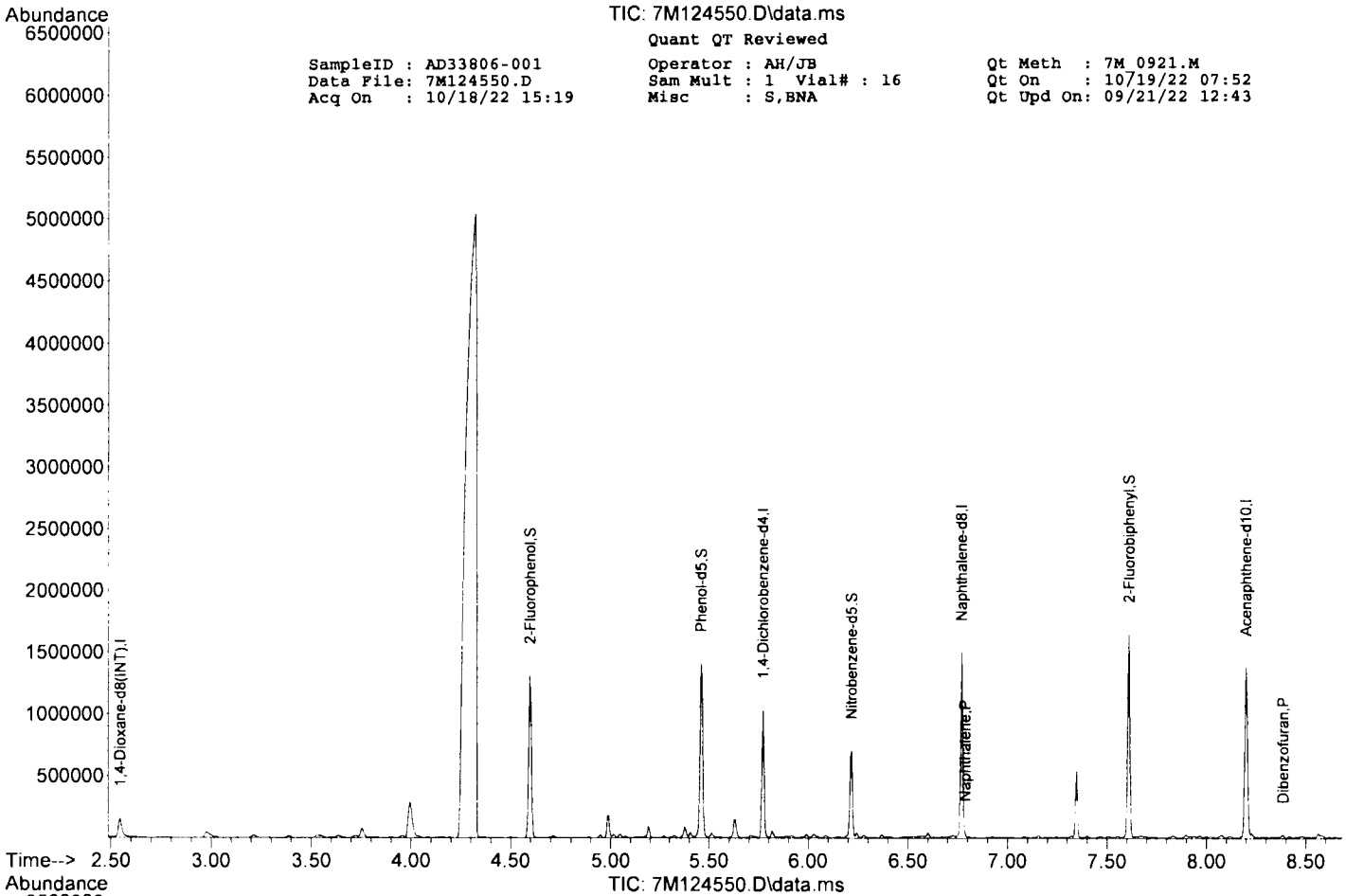
Quantitation Report (QT Reviewed)

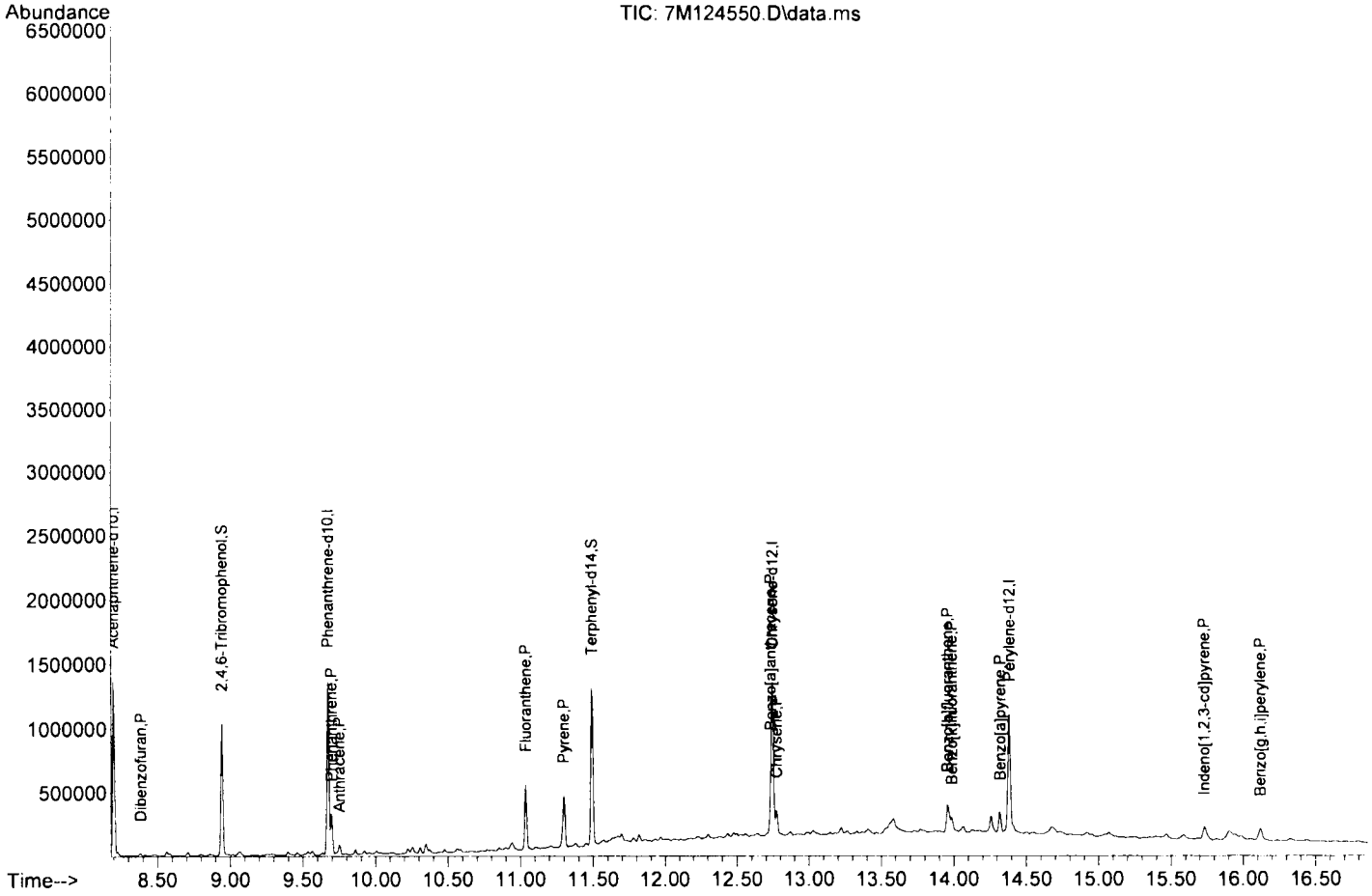
SampleID : AD33806-001 Operator : AH/JB Qt Meth : 7M_0921.M
Data File: 7M124550.D Sam Mult : 1 Vial# : 16 Qt On : 10/19/22 07:52
Acq On : 10/18/22 15:19 Misc : S,BNA Qt Upd On: 09/21/22 12:43

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-1822\
Qt Path : G:\GCMSDATA\2022\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.546	96	80729	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.772	152	142641	40.00	ng	0.00
31) Naphthalene-d8	6.770	136	545079	40.00	ng	0.00
50) Acenaphthene-d10	8.198	164	282209	40.00	ng	-0.01
77) Phenanthrene-d10	9.673	188	559845	40.00	ng	0.00
91) Chrysene-d12	12.746	240	435296	40.00	ng	0.00
103) Perylene-d12	14.385	264	426712	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.597	112	398027	88.90	ng	0.00
Spiked Amount 100.000			Recovery = 88.90%			
16) Phenol-d5	5.460	99	505265	96.09	ng	0.00
Spiked Amount 100.000			Recovery = 96.09%			
32) Nitrobenzene-d5	6.218	128	111818	52.12	ng	0.00
Spiked Amount 50.000			Recovery = 104.24%			
55) 2-Fluorobiphenyl	7.611	172	486763	47.25	ng	0.00
Spiked Amount 50.000			Recovery = 94.50%			
80) 2,4,6-Tribromophenol	8.944	330	135745	106.27	ng	0.00
Spiked Amount 100.000			Recovery = 106.27%			
94) Terphenyl-d14	11.489	244	435069	52.29	ng	0.00
Spiked Amount 50.000			Recovery = 104.58%			
Target Compounds						Qvalue
41) Naphthalene	6.788	128	8661m	0.5939	ng	
68) Dibenzofuran	8.386	168	6939m	0.5325	ng	
86) Phenanthrene	9.697	178	121976m	8.9173	ng	
87) Anthracene	9.749	178	31527m	2.3092	ng	
90) Fluoranthene	11.036	202	214892m	14.0575	ng	
92) Pyrene	11.301	202	181428m	12.8932	ng	
100) Benzo[a]anthracene	12.734	228	99749m	7.5198	ng	
101) Chrysene	12.775	228	85399m	7.0582	ng	
105) Benzo[b]fluoranthene	13.956	252	127743m	10.6240	ng	
106) Benzo[k]fluoranthene	13.986	252	30737m	2.6329	ng	
107) Benzo[a]pyrene	14.321	252	79929m	6.9533	ng	
108) Indeno[1,2,3-cd]pyrene	15.731	276	59259m	4.8139	ng	
110) Benzo[g,h,i]perylene	16.119	276	61786m	5.7033	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 7M124550.D\data.ms
Quant QT Reviewed
SampleID : AD33806-001
Data File: 7M124550.D
Acq On : 10/18/22 15:19
Operator : AH/JB
Sam Mult : 1 Vial# : 16
Misc : S,BNA
Qt Meth : 7M_0921.M
Qt On : 10/19/22 07:52
Qt Upd On: 09/21/22 12:43
Abundance
Time-->


TIC: 7M124550.D\data.ms
Abundance
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33806-002
Client Id: SB-62SS(14'-16')
Data File: 7M124555.D
Analysis Date: 10/18/22 17:19
Date Rec/Extracted: 10/10/22-10/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.041	U	**50-32-8**	**Benzo[a]pyrene**	**0.041**	**1.6**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.041	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.041**	**2.1**
122-66-7	1,2-Diphenylhydrazine	0.041	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.041**	**0.94**
123-91-1	1,4-Dioxane	0.012	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.041**	**0.69**
58-90-2	2,3,4,6-Tetrachlorophenol	0.041	U	100-51-6	Benzyl alcohol	0.041	U
95-95-4	2,4,5-Trichlorophenol	0.041	U	111-91-1	bis(2-Chloroethoxy)methan	0.041	U
88-06-2	2,4,6-Trichlorophenol	0.041	U	111-44-4	bis(2-Chloroethyl)ether	0.013	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.041	U
105-67-9	2,4-Dimethylphenol	0.023	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.37	U
51-28-5	2,4-Dinitrophenol	0.20	U	85-68-7	Butylbenzylphthalate	0.041	U
121-14-2	2,4-Dinitrotoluene	0.041	U	105-60-2	Caprolactam	0.041	U
606-20-2	2,6-Dinitrotoluene	0.041	U	**86-74-8**	**Carbazole**	**0.041**	**0.095**
91-58-7	2-Chloronaphthalene	0.041	U	**218-01-9**	**Chrysene**	**0.041**	**1.6**
95-57-8	2-Chlorophenol	0.041	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.041**	**0.27**
91-57-6	2-Methylnaphthalene	0.041	U	**132-64-9**	**Dibenzofuran**	**0.011**	**0.057**
95-48-7	2-Methylphenol	0.013	U	84-66-2	Diethylphthalate	0.72	U
88-74-4	2-Nitroaniline	0.041	U	131-11-3	Dimethylphthalate	0.041	U
88-75-5	2-Nitrophenol	0.041	U	84-74-2	Di-n-butylphthalate	0.97	U
106-44-5	3&4-Methylphenol	0.013	U	117-84-0	Di-n-octylphthalate	0.041	U
91-94-1	3,3'-Dichlorobenzidine	0.041	U	**206-44-0**	**Fluoranthene**	**0.041**	**2.9**
99-09-2	3-Nitroaniline	0.041	U	**86-73-7**	**Fluorene**	**0.041**	**0.14**
534-52-1	4,6-Dinitro-2-methylphenol	0.20	U	118-74-1	Hexachlorobenzene	0.041	U
101-55-3	4-Bromophenyl-phenylether	0.041	U	87-68-3	Hexachlorobutadiene	0.041	U
59-50-7	4-Chloro-3-methylphenol	0.041	U	77-47-4	Hexachlorocyclopentadiene	0.14	U
106-47-8	4-Chloroaniline	0.014	U	67-72-1	Hexachloroethane	0.041	U
7005-72-3	4-Chlorophenyl-phenylether	0.041	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.041**	**0.91**
100-01-6	4-Nitroaniline	0.041	U	78-59-1	Isophorone	0.041	U
100-02-7	4-Nitrophenol	0.041	U	**91-20-3**	**Naphthalene**	**0.010**	**0.024**
83-32-9	**Acenaphthene**	**0.041**	**0.092**	98-95-3	Nitrobenzene	0.041	U
208-96-8	**Acenaphthylene**	**0.041**	**0.087**	62-75-9	N-Nitrosodimethylamine	0.041	U
98-86-2	Acetophenone	0.041	U	621-64-7	N-Nitroso-di-n-propylamine	0.010	U
120-12-7	**Anthracene**	**0.041**	**0.39**	86-30-6	n-Nitrosodiphenylamine	0.041	U
1912-24-9	Atrazine	0.041	U	87-86-5	Pentachlorophenol	0.20	U
100-52-7	Benzaldehyde	0.041	U	**85-01-8**	**Phenanthrene**	**0.041**	**1.1**
92-87-5	Benzidine	0.12	U	108-95-2	Phenol	0.041	U
56-55-3	**Benzo[a]anthracene**	**0.041**	**1.7**	**129-00-0**	**Pyrene**	**0.041**	**2.5**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

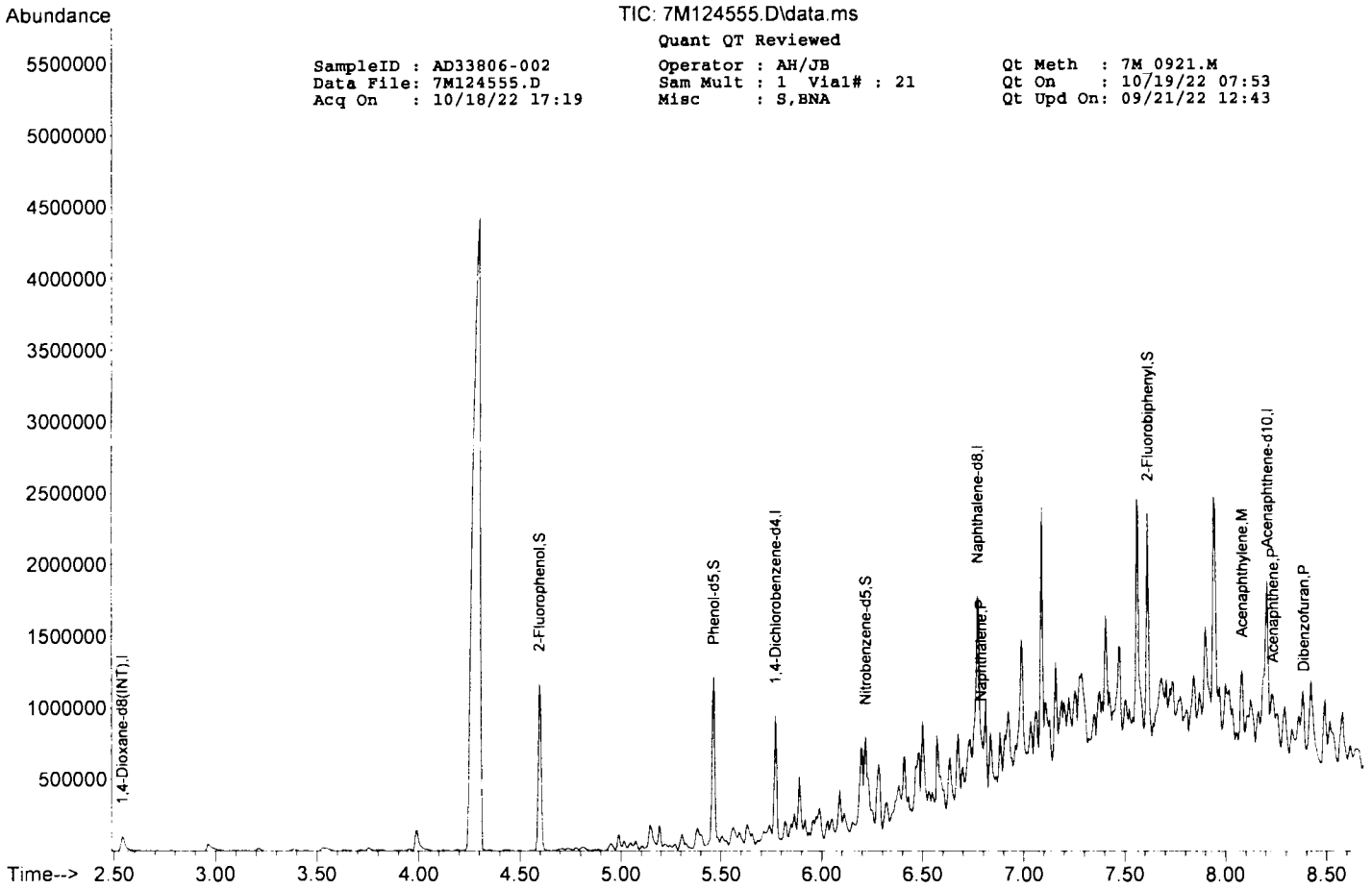
Quantitation Report (QT Reviewed)

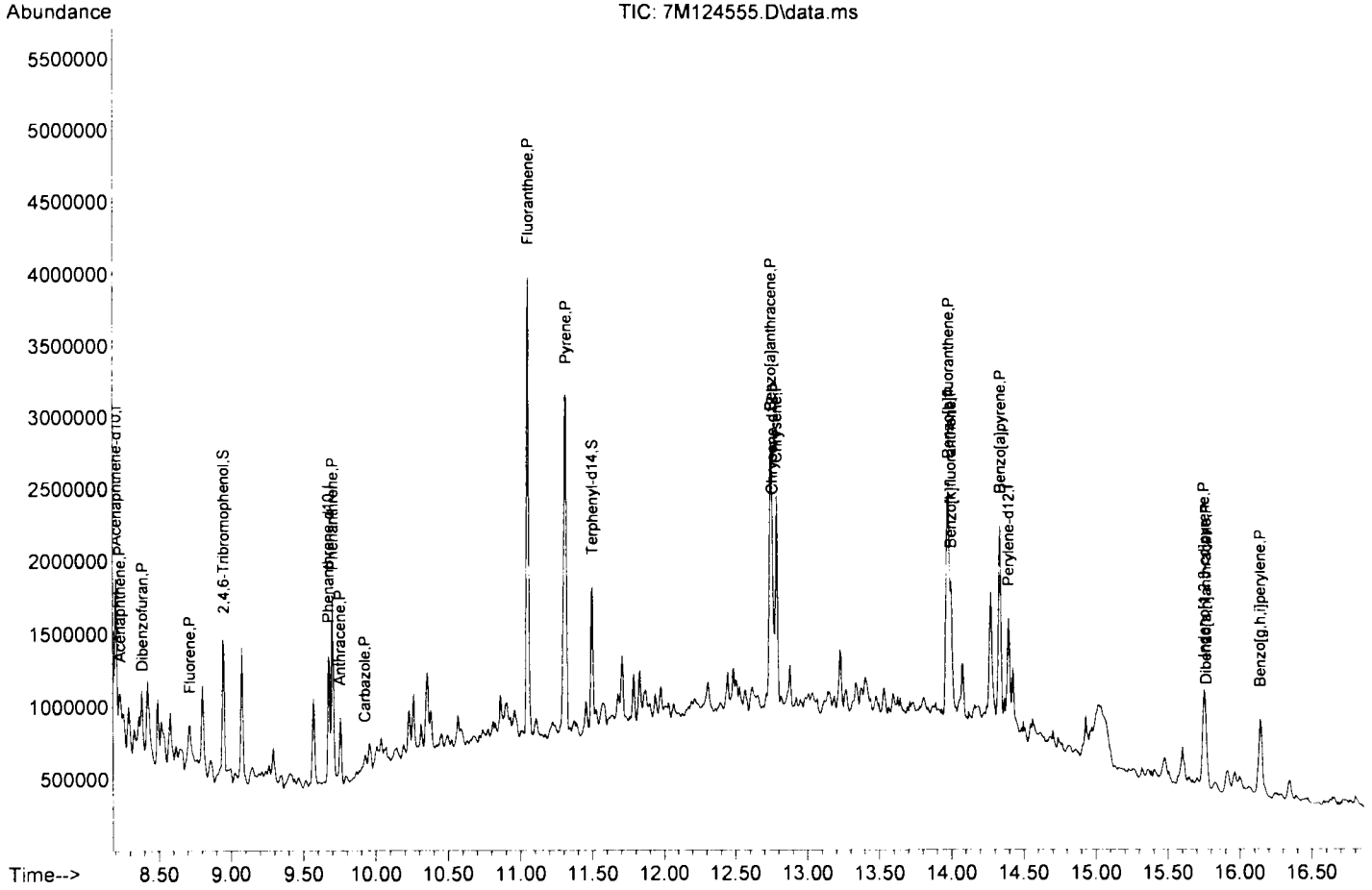
SampleID : AD33806-002 Operator : AH/JB Qt Meth : 7M_0921.M
Data File: 7M124555.D Sam Mult : 1 Vial# : 21 Qt On : 10/19/22 07:53
Acq On : 10/18/22 17:19 Misc : S,BNA Qt Upd On: 09/21/22 12:43

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-1822\
Qt Path : G:\GCMSDATA\2022\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.540	96	55305	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.772	152	121666	40.00	ng	0.00
31) Naphthalene-d8	6.771	136	443021	40.00	ng	0.00
50) Acenaphthene-d10	8.204	164	231577	40.00	ng	0.00
77) Phenanthrene-d10	9.673	188	396052	40.00	ng	0.00
91) Chrysene-d12	12.758	240	319617	40.00	ng	0.02
103) Perylene-d12	14.397	264	330504	40.00	ng	0.03
System Monitoring Compounds						
11) 2-Fluorophenol	4.597	112	376690	122.81	ng	0.00
Spiked Amount 100.000			Recovery = 122.81%			
16) Phenol-d5	5.466	99	410932	114.08	ng	0.00
Spiked Amount 100.000			Recovery = 114.08%			
32) Nitrobenzene-d5	6.218	128	92057	52.80	ng	0.00
Spiked Amount 50.000			Recovery = 105.60%			
55) 2-Fluorobiphenyl	7.611	172	430452	50.92	ng	0.00
Spiked Amount 50.000			Recovery = 101.84%			
80) 2,4,6-Tribromophenol	8.950	330	129980	143.83	ng	0.00
Spiked Amount 100.000			Recovery = 143.83%			
94) Terphenyl-d14	11.500	244	345491	56.55	ng	0.01
Spiked Amount 50.000			Recovery = 113.10%			
Target Compounds						Qvalue
41) Naphthalene	6.788	128	13875m	1.1706	ng	
62) Acenaphthylene	8.081	152	46507m	4.2647	ng	
65) Acenaphthene	8.234	153	31851m	4.5455	ng	
68) Dibenzofuran	8.386	168	29883m	2.7944	ng	
72) Fluorene	8.715	166	55460m	6.8353	ng	
86) Phenanthrene	9.703	178	529792m	54.7493	ng	
87) Anthracene	9.755	178	183618m	19.0115	ng	
88) Carbazole	9.926	167	43537m	4.6498	ng	
90) Fluoranthene	11.054	202	1523412m	140.8710	ng	
92) Pyrene	11.318	202	1293337m	125.1769	ng	
100) Benzo[a]anthracene	12.746	228	813699m	83.5441	ng	
101) Chrysene	12.787	228	688590m	77.5097	ng	
105) Benzo[b]fluoranthene	13.980	252	977526m	104.9632	ng	
106) Benzo[k]fluoranthene	13.998	252	307710m	34.0309	ng	
107) Benzo[a]pyrene	14.338	252	683140m	76.7284	ng	
108) Indeno[1,2,3-cd]pyrene	15.754	276	429051m	45.0002	ng	
109) Dibenzo[a,h]anthracene	15.766	278	111777m	13.3392	ng	
110) Benzo[g,h,i]perylene	16.142	276	388968m	46.3563	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M124555.D\data.ms
Quant QT Reviewed
SampleID : AD33806-002
Data File: 7M124555.D
Acq On : 10/18/22 17:19
Operator : AH/JB
Sam Mult : 1 Vial# : 21
Misc : S,BNA
Qt Meth : 7M_0921.M
Qt On : 10/19/22 07:53
Qt Upd On: 09/21/22 12:43
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene,P
Acenaphthene-d10,I
Dibenzofuran,P
Time-->


Abundance
TIC: 7M124555.D\data.ms
Acenaphthene,P
Acenaphthene-d10,I
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene,P
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene,P
Benzo[a]anthracene,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33806-003
Client Id: SB-63SS(6')
Data File: 7M124553.D
Analysis Date: 10/18/22 16:31
Date Rec/Extracted: 10/10/22-10/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.043	U	**50-32-8**	**Benzo[a]pyrene**	**0.043**	**0.43**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.043	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.043**	**0.56**
122-66-7	1,2-Diphenylhydrazine	0.043	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.043**	**0.35**
123-91-1	1,4-Dioxane	0.012	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.043**	**0.22**
58-90-2	2,3,4,6-Tetrachlorophenol	0.043	U	100-51-6	Benzyl alcohol	0.043	U
95-95-4	2,4,5-Trichlorophenol	0.043	U	111-91-1	bis(2-Chloroethoxy)methan	0.043	U
88-06-2	2,4,6-Trichlorophenol	0.043	U	111-44-4	bis(2-Chloroethyl)ether	0.014	U
120-83-2	2,4-Dichlorophenol	0.014	U	108-60-1	bis(2-chloroisopropyl)ether	0.043	U
105-67-9	2,4-Dimethylphenol	0.024	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.39	U
51-28-5	2,4-Dinitrophenol	0.21	U	85-68-7	Butylbenzylphthalate	0.043	U
121-14-2	2,4-Dinitrotoluene	0.043	U	105-60-2	Caprolactam	0.043	U
606-20-2	2,6-Dinitrotoluene	0.043	U	86-74-8	Carbazole	0.043	U
91-58-7	2-Chloronaphthalene	0.043	U	**218-01-9**	**Chrysene**	**0.043**	**0.47**
95-57-8	2-Chlorophenol	0.043	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.043**	**0.081**
91-57-6	2-Methylnaphthalene	0.043	U	**132-64-9**	**Dibenzofuran**	**0.011**	**0.022**
95-48-7	2-Methylphenol	0.013	U	84-66-2	Diethylphthalate	0.76	U
88-74-4	2-Nitroaniline	0.043	U	131-11-3	Dimethylphthalate	0.043	U
88-75-5	2-Nitrophenol	0.043	U	84-74-2	Di-n-butylphthalate	1.0	U
106-44-5	3&4-Methylphenol	0.014	U	117-84-0	Di-n-octylphthalate	0.043	U
91-94-1	3,3'-Dichlorobenzidine	0.043	U	**206-44-0**	**Fluoranthene**	**0.043**	**0.81**
99-09-2	3-Nitroaniline	0.043	U	86-73-7	Fluorene	0.043	U
534-52-1	4,6-Dinitro-2-methylphenol	0.21	U	118-74-1	Hexachlorobenzene	0.043	U
101-55-3	4-Bromophenyl-phenylether	0.043	U	87-68-3	Hexachlorobutadiene	0.043	U
59-50-7	4-Chloro-3-methylphenol	0.043	U	77-47-4	Hexachlorocyclopentadiene	0.14	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.043	U
7005-72-3	4-Chlorophenyl-phenylether	0.043	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.043**	**0.29**
100-01-6	4-Nitroaniline	0.043	U	78-59-1	Isophorone	0.043	U
100-02-7	4-Nitrophenol	0.043	U	**91-20-3**	**Naphthalene**	**0.011**	**0.019**
83-32-9	Acenaphthene	0.043	U	98-95-3	Nitrobenzene	0.043	U
208-96-8	**Acenaphthylene**	**0.043**	**0.048**	62-75-9	N-Nitrosodimethylamine	0.043	U
98-86-2	Acetophenone	0.043	U	621-64-7	N-Nitroso-di-n-propylamine	0.011	U
120-12-7	**Anthracene**	**0.043**	**0.14**	86-30-6	n-Nitrosodiphenylamine	0.043	U
1912-24-9	Atrazine	0.043	U	87-86-5	Pentachlorophenol	0.21	U
100-52-7	Benzaldehyde	0.043	U	**85-01-8**	**Phenanthrene**	**0.043**	**0.47**
92-87-5	Benzidine	0.12	U	108-95-2	Phenol	0.043	U
56-55-3	**Benzo[a]anthracene**	**0.043**	**0.46**	**129-00-0**	**Pyrene**	**0.043**	**0.79**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

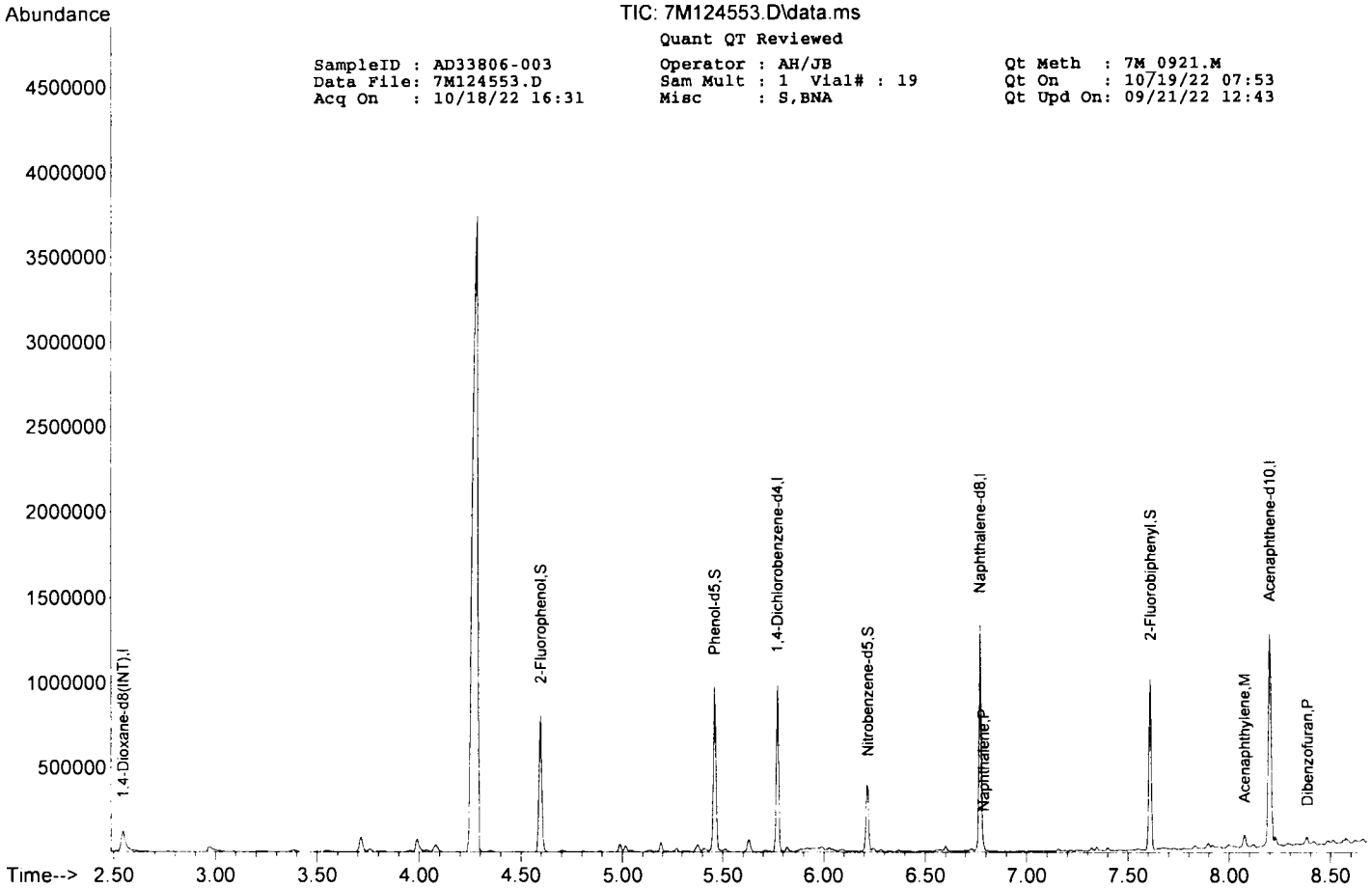
Quantitation Report (QT Reviewed)

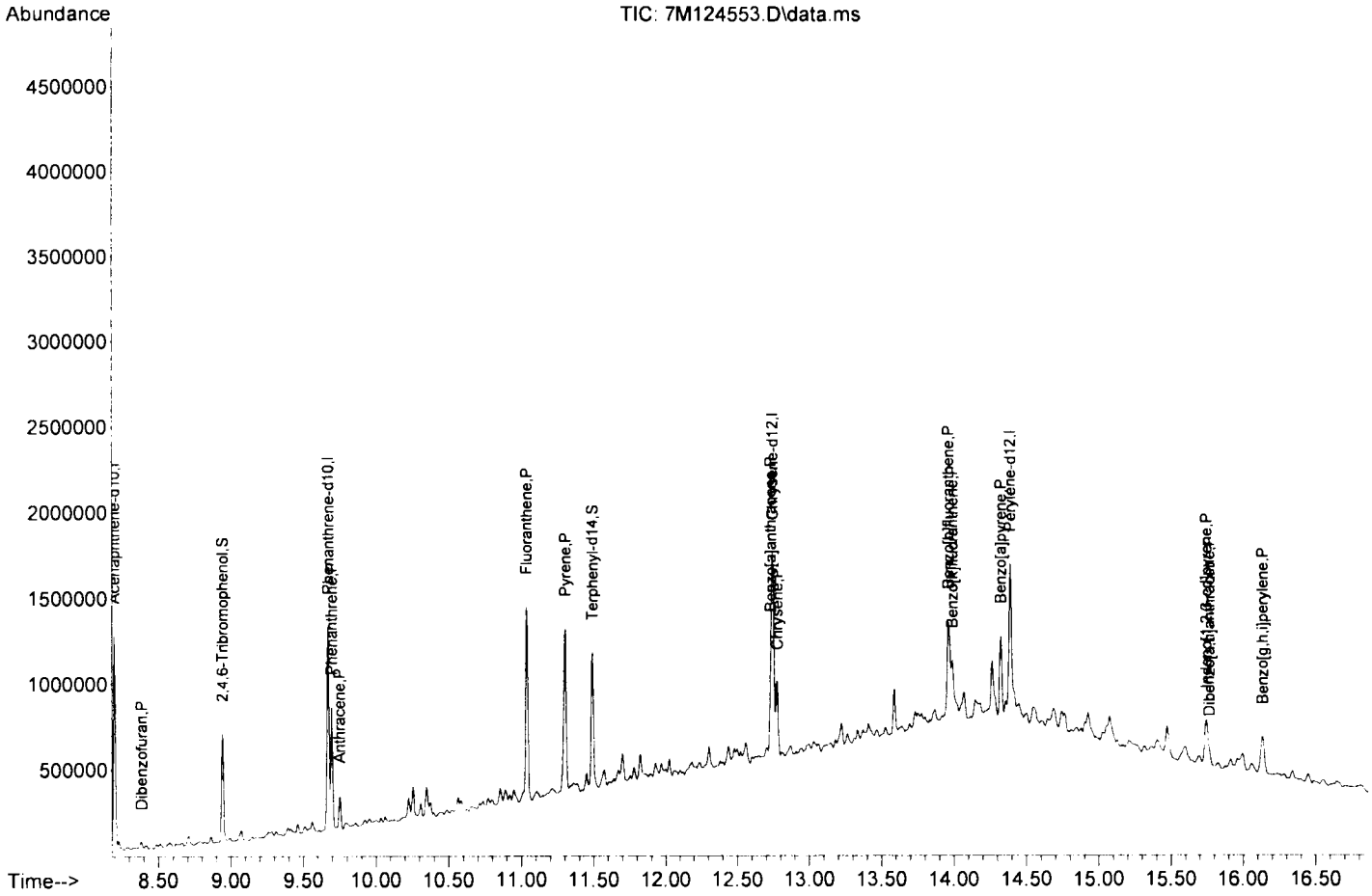
SampleID : AD33806-003 Operator : AH/JB Qt Meth : 7M_0921.M
Data File: 7M124553.D Sam Mult : 1 Vial# : 19 Qt On : 10/19/22 07:53
Acq On : 10/18/22 16:31 Misc : S,BNA Qt Upd On: 09/21/22 12:43

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-1822\
Qt Path : G:\GCMSDATA\2022\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.546	96	74892	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.772	152	137391	40.00	ng	0.00
31) Naphthalene-d8	6.770	136	508130	40.00	ng	0.00
50) Acenaphthene-d10	8.198	164	257777	40.00	ng	-0.01
77) Phenanthrene-d10	9.673	188	508710	40.00	ng	0.00
91) Chrysene-d12	12.746	240	393509	40.00	ng	0.00
103) Perylene-d12	14.391	264	402322	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.596	112	244205	58.80	ng	0.00
Spiked Amount 100.000			Recovery = 58.80%			
16) Phenol-d5	5.460	99	316737	64.93	ng	0.00
Spiked Amount 100.000			Recovery = 64.93%			
32) Nitrobenzene-d5	6.218	128	62875	31.44	ng	0.00
Spiked Amount 50.000			Recovery = 62.88%			
55) 2-Fluorobiphenyl	7.611	172	303572	32.26	ng	0.00
Spiked Amount 50.000			Recovery = 64.52%			
80) 2,4,6-Tribromophenol	8.944	330	82572	71.14	ng	0.00
Spiked Amount 100.000			Recovery = 71.14%			
94) Terphenyl-d14	11.494	244	271580	36.11	ng	0.00
Spiked Amount 50.000			Recovery = 72.22%			
Target Compounds						Qvalue
41) Naphthalene	6.788	128	12031m	0.8849	ng	
62) Acenaphthylene	8.075	152	27240m	2.2440	ng	
68) Dibenzofuran	8.386	168	12365m	1.0387	ng	
86) Phenanthrene	9.696	178	272210m	21.9008	ng	
87) Anthracene	9.749	178	82648m	6.6622	ng	
90) Fluoranthene	11.036	202	527520m	37.9774	ng	
92) Pyrene	11.306	202	467875m	36.7805	ng	
100) Benzo[a]anthracene	12.734	228	257283m	21.4555	ng	
101) Chrysene	12.781	228	238608m	21.8150	ng	
105) Benzo[b]fluoranthene	13.962	252	297280m	26.2227	ng	
106) Benzo[k]fluoranthene	13.992	252	114228m	10.3778	ng	
107) Benzo[a]pyrene	14.326	252	218803m	20.1884	ng	
108) Indeno[1,2,3-cd]pyrene	15.748	276	155934m	13.4353	ng	
109) Dibenzo[a,h]anthracene	15.766	278	38551m	3.7794	ng	
110) Benzo[g,h,i]perylene	16.136	276	166034m	16.2553	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M124553.D\data.ms
Quant QT Reviewed
SampleID : AD33806-003
Data File: 7M124553.D
Acq On : 10/18/22 16:31
Operator : AH/JB
Sam Mult : 1 Vial# : 19
Misc : S,BNA
Qt Meth : 7M_0921.M
Qt On : 10/19/22 07:53
Qt Upd On: 09/21/22 12:43
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene-d10,I
Dibenzofuran,P
Time-->


Abundance
TIC: 7M124553.D\data.ms
Dibenzofuran,P
2,4,6-Tribromophenol,S
Anthracene,P
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33806-004(3X)
Client Id: SB-63SS(14')
Data File: 7M124604.D
Analysis Date: 10/19/22 19:58
Date Rec/Extracted: 10/10/22-10/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 3
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.13	U	**50-32-8**	**Benzo[a]pyrene**	**0.13**	**1.7**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.13	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.13**	**2.7**
122-66-7	1,2-Diphenylhydrazine	0.13	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.13**	**0.99**
123-91-1	1,4-Dioxane	0.037	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.13**	**0.74**
58-90-2	2,3,4,6-Tetrachlorophenol	0.13	U	100-51-6	Benzyl alcohol	0.13	U
95-95-4	2,4,5-Trichlorophenol	0.13	U	111-91-1	bis(2-Chloroethoxy)methan	0.13	U
88-06-2	2,4,6-Trichlorophenol	0.13	U	111-44-4	bis(2-Chloroethyl)ether	0.041	U
120-83-2	2,4-Dichlorophenol	0.042	U	108-60-1	bis(2-chloroisopropyl)ether	0.13	U
105-67-9	2,4-Dimethylphenol	0.073	U	117-81-7	bis(2-Ethylhexyl)phthalate	1.2	U
51-28-5	2,4-Dinitrophenol	0.65	U	85-68-7	Butylbenzylphthalate	0.13	U
121-14-2	2,4-Dinitrotoluene	0.13	U	105-60-2	Caprolactam	0.13	U
606-20-2	2,6-Dinitrotoluene	0.13	U	86-74-8	Carbazole	0.13	U
91-58-7	2-Chloronaphthalene	0.13	U	**218-01-9**	**Chrysene**	**0.13**	**1.7**
95-57-8	2-Chlorophenol	0.13	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.13**	**0.27**
91-57-6	2-Methylnaphthalene	0.13	U	**132-64-9**	**Dibenzofuran**	**0.034**	**0.12**
95-48-7	2-Methylphenol	0.040	U	84-66-2	Diethylphthalate	2.3	U
88-74-4	2-Nitroaniline	0.13	U	131-11-3	Dimethylphthalate	0.13	U
88-75-5	2-Nitrophenol	0.13	U	84-74-2	Di-n-butylphthalate	3.1	U
106-44-5	3&4-Methylphenol	0.043	U	117-84-0	Di-n-octylphthalate	0.13	U
91-94-1	3,3'-Dichlorobenzidine	0.13	U	**206-44-0**	**Fluoranthene**	**0.13**	**3.1**
99-09-2	3-Nitroaniline	0.13	U	**86-73-7**	**Fluorene**	**0.13**	**0.27**
534-52-1	4,6-Dinitro-2-methylphenol	0.65	U	118-74-1	Hexachlorobenzene	0.13	U
101-55-3	4-Bromophenyl-phenylether	0.13	U	87-68-3	Hexachlorobutadiene	0.13	U
59-50-7	4-Chloro-3-methylphenol	0.13	U	77-47-4	Hexachlorocyclopentadiene	0.43	U
106-47-8	4-Chloroaniline	0.044	U	67-72-1	Hexachloroethane	0.13	U
7005-72-3	4-Chlorophenyl-phenylether	0.13	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.13**	**0.91**
100-01-6	4-Nitroaniline	0.13	U	78-59-1	Isophorone	0.13	U
100-02-7	4-Nitrophenol	0.13	U	**91-20-3**	**Naphthalene**	**0.032**	**0.054**
83-32-9	**Acenaphthene**	**0.13**	**0.17**	98-95-3	Nitrobenzene	0.13	U
208-96-8	**Acenaphthylene**	**0.13**	**0.24**	62-75-9	N-Nitrosodimethylamine	0.13	U
98-86-2	Acetophenone	0.13	U	621-64-7	N-Nitroso-di-n-propylamine	0.033	U
120-12-7	**Anthracene**	**0.13**	**0.52**	86-30-6	n-Nitrosodiphenylamine	0.13	U
1912-24-9	Atrazine	0.13	U	87-86-5	Pentachlorophenol	0.65	U
100-52-7	Benzaldehyde	0.13	U	**85-01-8**	**Phenanthrene**	**0.13**	**1.4**
92-87-5	Benzidine	0.37	U	108-95-2	Phenol	0.13	U
56-55-3	**Benzo[a]anthracene**	**0.13**	**1.8**	**129-00-0**	**Pyrene**	**0.13**	**2.7**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

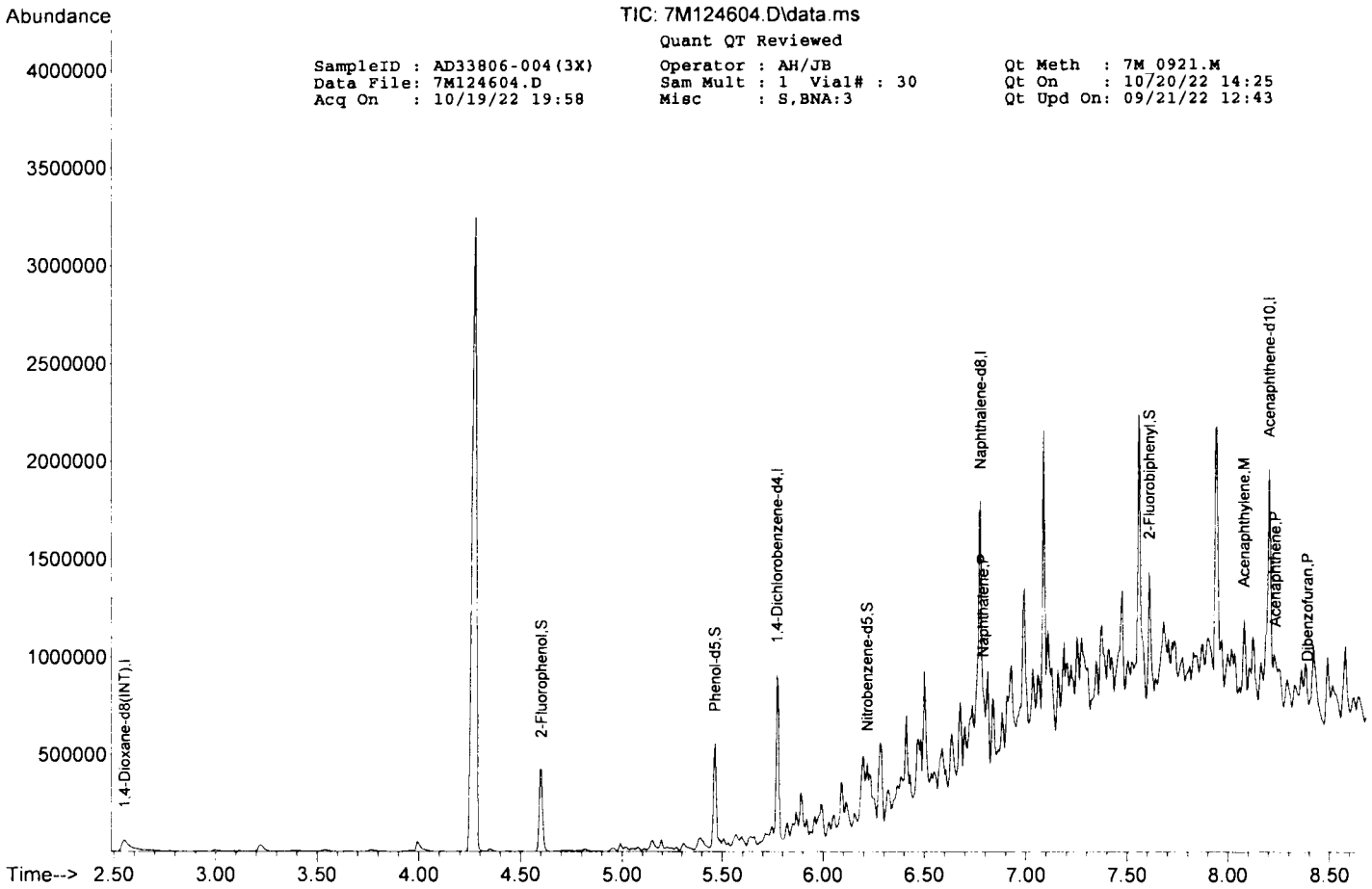
Quantitation Report (QT Reviewed)

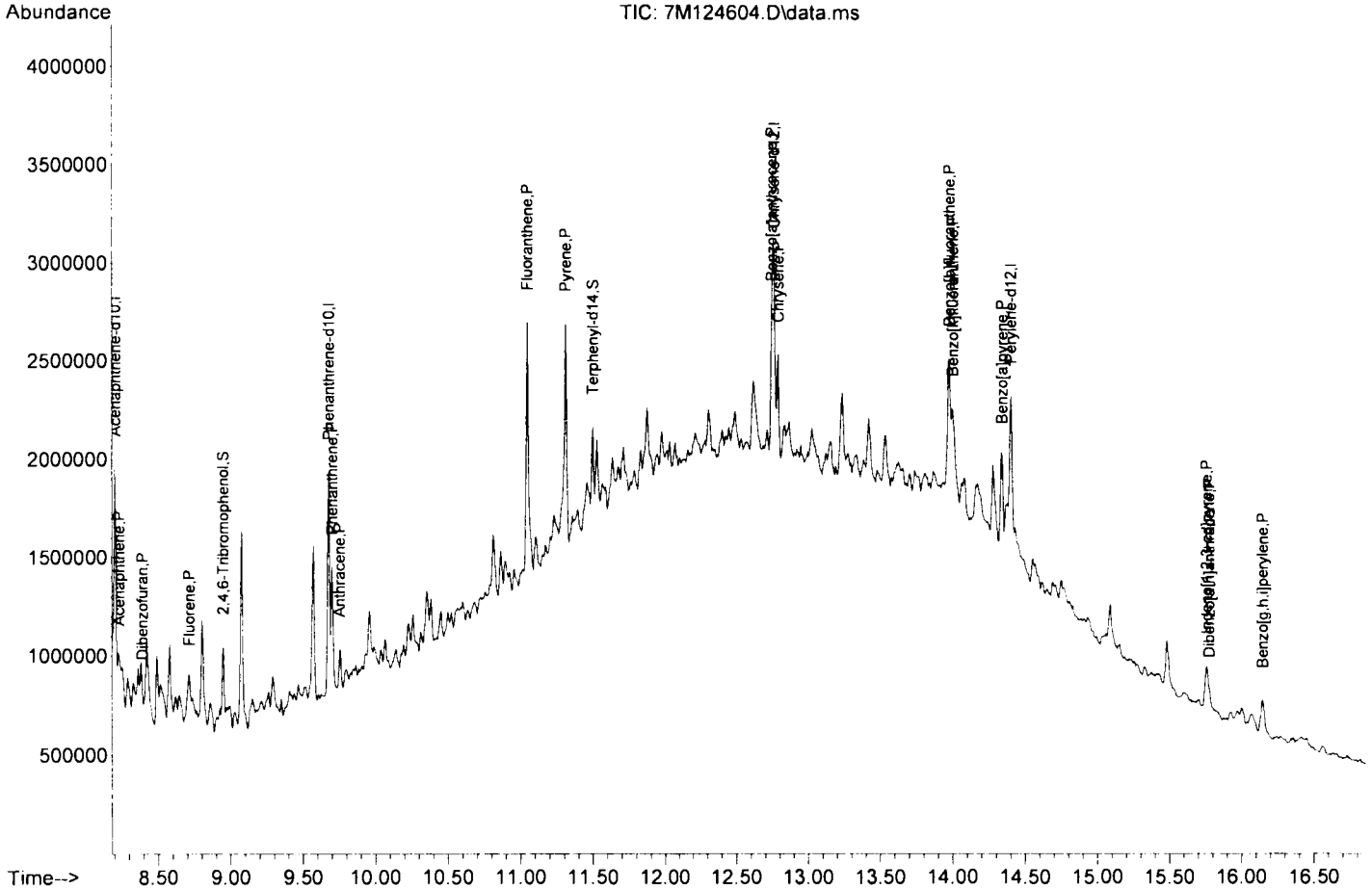
SampleID : AD33806-004(3X) Operator : AH/JB Qt Meth : 7M_0921.M
Data File: 7M124604.D Sam Mult : 1 Vial# : 30 Qt On : 10/20/22 14:25
Acq On : 10/19/22 19:58 Misc : S,BNA:3 Qt Upd On: 09/21/22 12:43

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-19-22\
Qt Path : G:\GCMSDATA\2022\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.552	96	52714	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.772	152	134445	40.00	ng	0.00
31) Naphthalene-d8	6.776	136	456549	40.00	ng	0.00
50) Acenaphthene-d10	8.204	164	225676	40.00	ng	0.00
77) Phenanthrene-d10	9.679	188	460084	40.00	ng	0.00
91) Chrysene-d12	12.764	240	363931	40.00	ng	0.02
103) Perylene-d12	14.403	264	331163	40.00	ng	0.04
System Monitoring Compounds						
11) 2-Fluorophenol	4.602	112	152670	52.22	ng	0.00
Spiked Amount 100.000			Recovery = 52.22%			
16) Phenol-d5	5.466	99	189248m	55.12	ng	0.00
Spiked Amount 100.000			Recovery = 55.12%			
32) Nitrobenzene-d5	6.218	128	38543	21.45	ng	0.00
Spiked Amount 50.000			Recovery = 42.90%			
55) 2-Fluorobiphenyl	7.611	172	161669	19.63	ng	0.00
Spiked Amount 50.000			Recovery = 39.26%			
80) 2,4,6-Tribromophenol	8.950	330	46560	44.35	ng	0.00
Spiked Amount 100.000			Recovery = 44.35%			
94) Terphenyl-d14	11.500	244	144434	20.76	ng	0.01
Spiked Amount 50.000			Recovery = 41.52%			
Target Compounds						Qvalue
41) Naphthalene	6.788	128	10135m	0.8297	ng	
62) Acenaphthylene	8.081	152	39500m	3.7169	ng	
65) Acenaphthene	8.234	153	17564m	2.5721	ng	
68) Dibenzofuran	8.392	168	19841m	1.9039	ng	
72) Fluorene	8.715	166	32594m	4.1222	ng	
86) Phenanthrene	9.702	178	242337m	21.5580	ng	
87) Anthracene	9.755	178	90582m	8.0734	ng	
90) Fluoranthene	11.048	202	596162m	47.4552	ng	
92) Pyrene	11.312	202	490337m	41.6791	ng	
100) Benzo[a]anthracene	12.746	228	311778m	28.1131	ng	
101) Chrysene	12.793	228	271184m	26.8083	ng	
105) Benzo[b]fluoranthene	13.980	252	392259m	42.0355	ng	
106) Benzo[k]fluoranthene	14.003	252	103482m	11.4217	ng	
107) Benzo[a]pyrene	14.344	252	235141m	26.3578	ng	
108) Indeno[1,2,3-cd]pyrene	15.760	276	133884m	14.0142	ng	
109) Dibenzo[a,h]anthracene	15.778	278	34679m	4.1303	ng	
110) Benzo[g,h,i]perylene	16.148	276	128723m	15.3104	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M124604.D\data.ms
Quant QT Reviewed
SampleID : AD33806-004(3X)
Data File: 7M124604.D
Acq On : 10/19/22 19:58
Operator : AH/JB
Sam Mult : 1 Vial# : 30
Misc : S,BNA:3
Qt Meth : 7M_0921.M
Qt On : 10/20/22 14:25
Qt Upd On: 09/21/22 12:43
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene,P
Acenaphthene-d10,I
Dibenzofuran,P
Time-->


Abundance
TIC: 7M124604.D\data.ms
Acenaphthene-d10,I
Acenaphthene,P
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Anthracene,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene,P
Benzo[a]anthracene,P
Benzo[a]pyrene,P
Perylene-d12,I
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33806-005
Client Id: SB-64SS(6')
Data File: 7M124554.D
Analysis Date: 10/18/22 16:55
Date Rec/Extracted: 10/10/22-10/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.039	U	**50-32-8**	**Benzo[a]pyrene**	**0.039**	**0.74**
95-94-3	1,2,4,5-Tetrachlorobenzene	0.039	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.039**	**1.1**
122-66-7	1,2-Diphenylhydrazine	0.039	U	**191-24-2**	**Benzo[g,h,i]perylene**	**0.039**	**0.41**
123-91-1	1,4-Dioxane	0.011	U	**207-08-9**	**Benzo[k]fluoranthene**	**0.039**	**0.27**
58-90-2	2,3,4,6-Tetrachlorophenol	0.039	U	100-51-6	Benzyl alcohol	0.039	U
95-95-4	2,4,5-Trichlorophenol	0.039	U	111-91-1	bis(2-Chloroethoxy)methan	0.039	U
88-06-2	2,4,6-Trichlorophenol	0.039	U	111-44-4	bis(2-Chloroethyl)ether	0.012	U
120-83-2	2,4-Dichlorophenol	0.013	U	108-60-1	bis(2-chloroisopropyl)ether	0.039	U
105-67-9	2,4-Dimethylphenol	0.022	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.35	U
51-28-5	2,4-Dinitrophenol	0.19	U	85-68-7	Butylbenzylphthalate	0.039	U
121-14-2	2,4-Dinitrotoluene	0.039	U	105-60-2	Caprolactam	0.039	U
606-20-2	2,6-Dinitrotoluene	0.039	U	**86-74-8**	**Carbazole**	**0.039**	**0.20**
91-58-7	2-Chloronaphthalene	0.039	U	**218-01-9**	**Chrysene**	**0.039**	**0.80**
95-57-8	2-Chlorophenol	0.039	U	**53-70-3**	**Dibenzo[a,h]anthracene**	**0.039**	**0.11**
91-57-6	**2-Methylnaphthalene**	**0.039**	**0.042**	**132-64-9**	**Dibenzofuran**	**0.010**	**0.12**
95-48-7	2-Methylphenol	0.012	U	84-66-2	Diethylphthalate	0.69	U
88-74-4	2-Nitroaniline	0.039	U	131-11-3	Dimethylphthalate	0.039	U
88-75-5	2-Nitrophenol	0.039	U	84-74-2	Di-n-butylphthalate	0.93	U
106-44-5	3&4-Methylphenol	0.013	U	117-84-0	Di-n-octylphthalate	0.039	U
91-94-1	3,3'-Dichlorobenzidine	0.039	U	**206-44-0**	**Fluoranthene**	**0.039**	**1.7**
99-09-2	3-Nitroaniline	0.039	U	**86-73-7**	**Fluorene**	**0.039**	**0.20**
534-52-1	4,6-Dinitro-2-methylphenol	0.19	U	118-74-1	Hexachlorobenzene	0.039	U
101-55-3	4-Bromophenyl-phenylether	0.039	U	87-68-3	Hexachlorobutadiene	0.039	U
59-50-7	4-Chloro-3-methylphenol	0.039	U	77-47-4	Hexachlorocyclopentadiene	0.13	U
106-47-8	4-Chloroaniline	0.013	U	67-72-1	Hexachloroethane	0.039	U
7005-72-3	4-Chlorophenyl-phenylether	0.039	U	**193-39-5**	**Indeno[1,2,3-cd]pyrene**	**0.039**	**0.39**
100-01-6	4-Nitroaniline	0.039	U	78-59-1	Isophorone	0.039	U
100-02-7	4-Nitrophenol	0.039	U	**91-20-3**	**Naphthalene**	**0.0097**	**0.085**
83-32-9	**Acenaphthene**	**0.039**	**0.18**	98-95-3	Nitrobenzene	0.039	U
208-96-8	**Acenaphthylene**	**0.039**	**0.061**	62-75-9	N-Nitrosodimethylamine	0.039	U
98-86-2	Acetophenone	0.039	U	621-64-7	N-Nitroso-di-n-propylamine	0.010	U
120-12-7	**Anthracene**	**0.039**	**0.31**	86-30-6	n-Nitrosodiphenylamine	0.039	U
1912-24-9	Atrazine	0.039	U	87-86-5	Pentachlorophenol	0.19	U
100-52-7	Benzaldehyde	0.039	U	**85-01-8**	**Phenanthrene**	**0.039**	**1.5**
92-87-5	Benzidine	0.11	U	108-95-2	Phenol	0.039	U
56-55-3	**Benzo[a]anthracene**	**0.039**	**0.87**	**129-00-0**	**Pyrene**	**0.039**	**1.5**

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

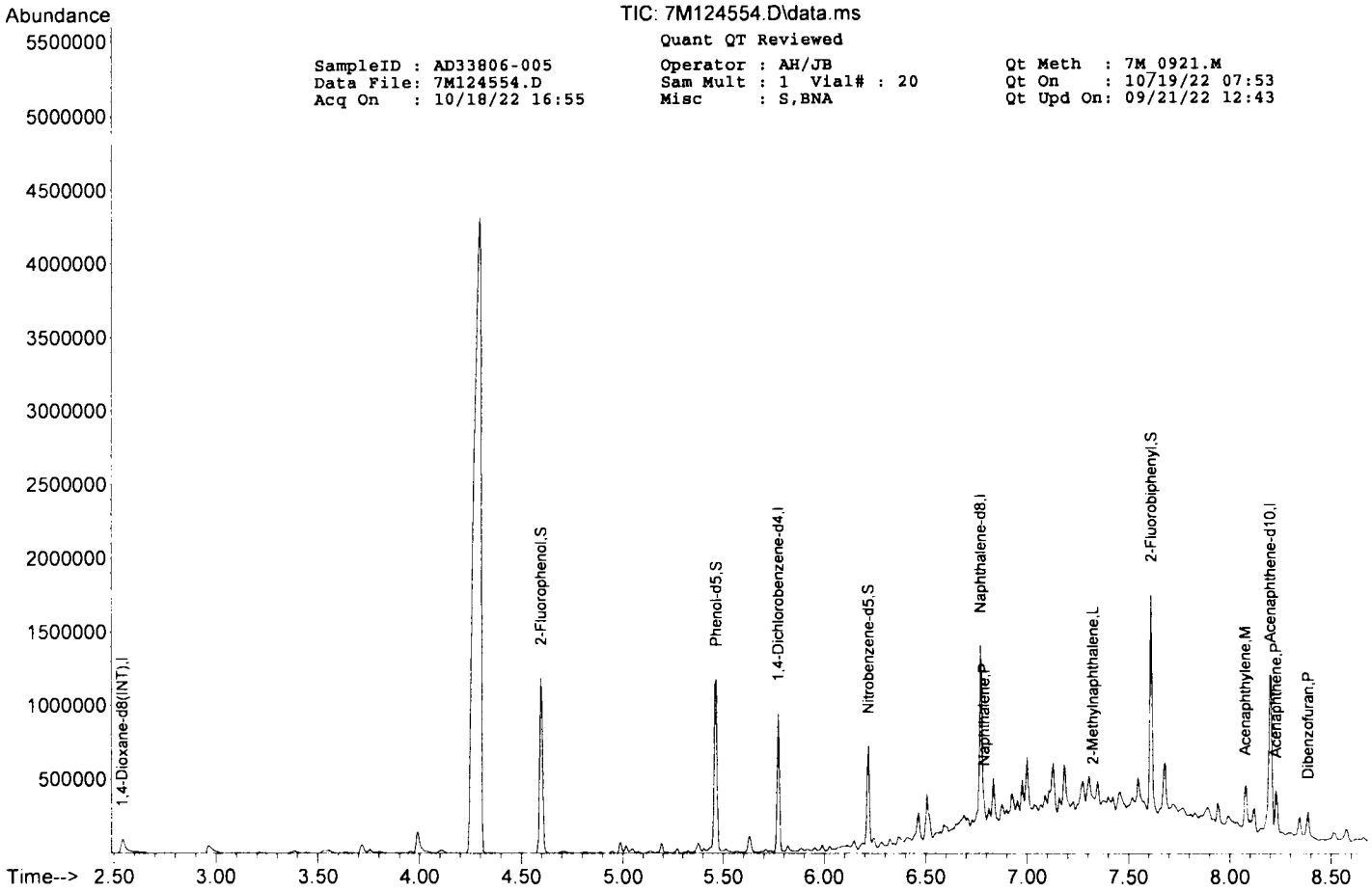
Quantitation Report (QT Reviewed)

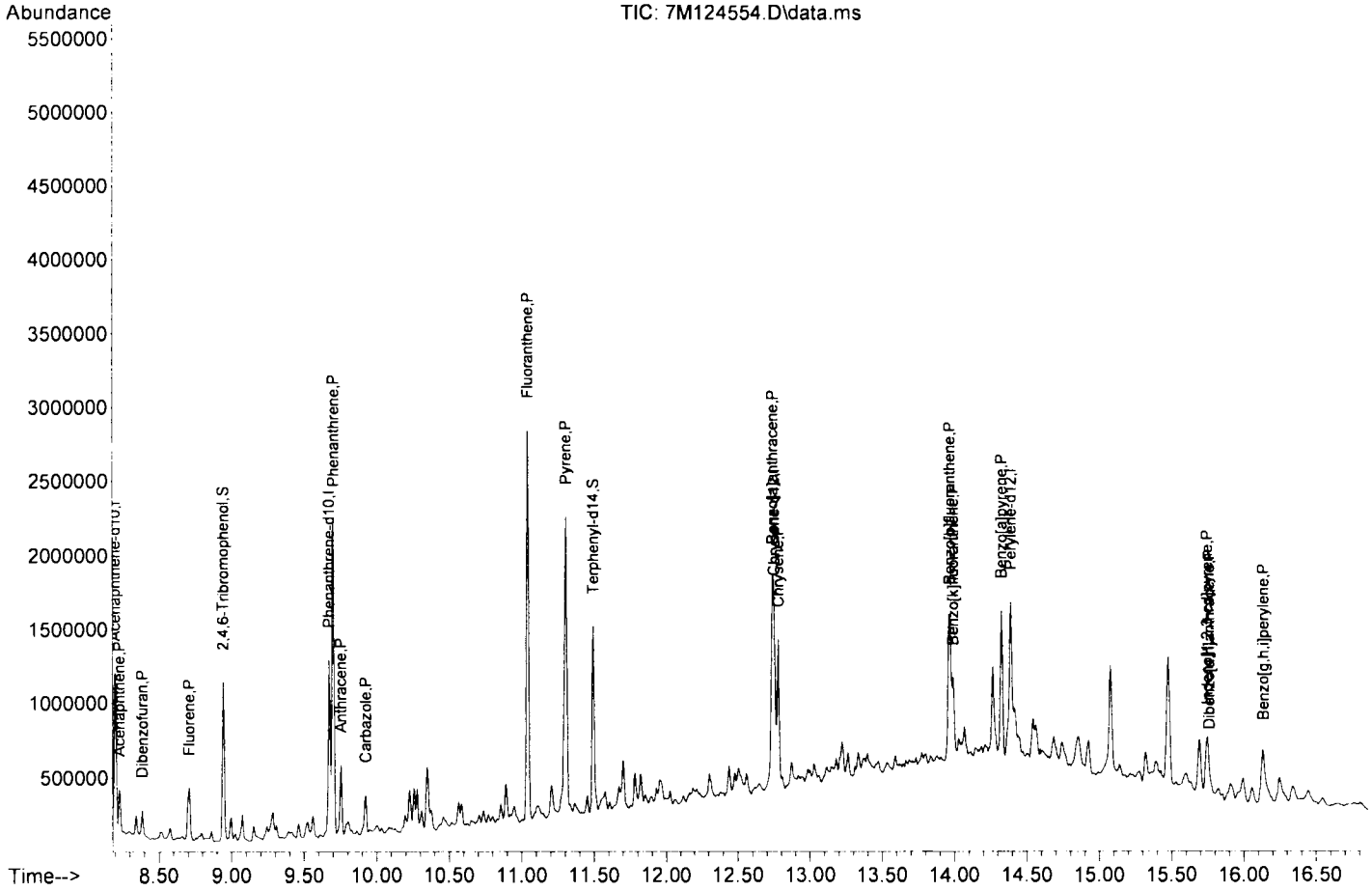
SampleID : AD33806-005 Operator : AH/JB Qt Meth : 7M_0921.M
Data File: 7M124554.D Sam Mult : 1 Vial# : 20 Qt On : 10/19/22 07:53
Acq On : 10/18/22 16:55 Misc : S,BNA Qt Upd On: 09/21/22 12:43

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-1822\
Qt Path : G:\GCMSDATA\2022\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.540	96	56473	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.772	152	132476	40.00	ng	0.00
31) Naphthalene-d8	6.771	136	491601	40.00	ng	0.00
50) Acenaphthene-d10	8.198	164	241135	40.00	ng	-0.01
77) Phenanthrene-d10	9.673	188	500206	40.00	ng	0.00
91) Chrysene-d12	12.752	240	379453	40.00	ng	0.01
103) Perylene-d12	14.391	264	399638	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.597	112	380177	121.39	ng	0.00
Spiked Amount 100.000			Recovery = 121.39%			
16) Phenol-d5	5.466	99	440150	119.66	ng	0.00
Spiked Amount 100.000			Recovery = 119.66%			
32) Nitrobenzene-d5	6.218	128	101741	52.58	ng	0.00
Spiked Amount 50.000			Recovery = 105.16%			
55) 2-Fluorobiphenyl	7.611	172	425589	48.35	ng	0.00
Spiked Amount 50.000			Recovery = 96.70%			
80) 2,4,6-Tribromophenol	8.944	330	128754	112.81	ng	0.00
Spiked Amount 100.000			Recovery = 112.81%			
94) Terphenyl-d14	11.494	244	399532	55.09	ng	0.00
Spiked Amount 50.000			Recovery = 110.18%			
Target Compounds						Qvalue
41) Naphthalene	6.788	128	57770m	4.3921	ng	
46) 2-Methylnaphthalene	7.323	142	18066m	2.1483	ng	
62) Acenaphthylene	8.075	152	36025m	3.1726	ng	
65) Acenaphthene	8.228	153	66752m	9.1487	ng	
68) Dibenzofuran	8.386	168	67957m	6.1028	ng	
72) Fluorene	8.709	166	88623m	10.4896	ng	
86) Phenanthrene	9.702	178	949271m	77.6724	ng	
87) Anthracene	9.755	178	193610m	15.8720	ng	
88) Carbazole	9.926	167	125021m	10.5720	ng	
90) Fluoranthene	11.042	202	1193402m	87.3764	ng	
92) Pyrene	11.306	202	951982m	77.6092	ng	
100) Benzo[a]anthracene	12.740	228	518470m	44.8381	ng	
101) Chrysene	12.781	228	438052m	41.5329	ng	
105) Benzo[b]fluoranthene	13.968	252	625221m	55.5203	ng	
106) Benzo[k]fluoranthene	13.992	252	153648m	14.0530	ng	
107) Benzo[a]pyrene	14.326	252	410032m	38.0868	ng	
108) Indeno[1,2,3-cd]pyrene	15.748	276	232618m	20.1771	ng	
109) Dibenzo[a,h]anthracene	15.760	278	59411m	5.8635	ng	
110) Benzo[g,h,i]perylene	16.136	276	214890m	21.1798	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M124554.D\data.ms
Quant QT Reviewed
SampleID : AD33806-005
Data File: 7M124554.D
Acq On : 10/18/22 16:55
Operator : AH/JB
Sam Mult : 1 Vial# : 20
Misc : S,BNA
Qt Meth : 7M_0921.M
Qt On : 10/19/22 07:53
Qt Upd On: 09/21/22 12:43
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Methylnaphthalene,L
2-Fluorobiphenyl,S
Acenaphthylene,M
Acenaphthene,P
Acenaphthene-d10,I
Dibenzofuran,P
Time-->


Abundance
TIC: 7M124554.D\data.ms
Dibenzofuran,P
Fluorene,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Phenanthrene,P
Anthracene,P
Carbazole,P
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Benzo[a]anthracene,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33806-006(10X)
Client Id: SB-64SS(14-15')
Data File: 7M124557.D
Analysis Date: 10/18/22 18:07
Date Rec/Extracted: 10/10/22-10/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 1.5ml
Dilution: 10
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	1.2	U	50-32-8	Benzo[a]pyrene	1.2	U
95-94-3	1,2,4,5-Tetrachlorobenzene	1.2	U	**205-99-2**	**Benzo[b]fluoranthene**	**1.2**	**1.3**
122-66-7	1,2-Diphenylhydrazine	1.2	U	191-24-2	Benzo[g,h,i]perylene	1.2	U
123-91-1	1,4-Dioxane	0.36	U	207-08-9	Benzo[k]fluoranthene	1.2	U
58-90-2	2,3,4,6-Tetrachlorophenol	1.2	U	100-51-6	Benzyl alcohol	1.2	U
95-95-4	2,4,5-Trichlorophenol	1.2	U	111-91-1	bis(2-Chloroethoxy)methan	1.2	U
88-06-2	2,4,6-Trichlorophenol	1.2	U	111-44-4	bis(2-Chloroethyl)ether	0.40	U
120-83-2	2,4-Dichlorophenol	0.40	U	108-60-1	bis(2-chloroisopropyl)ether	1.2	U
105-67-9	2,4-Dimethylphenol	0.70	U	117-81-7	bis(2-Ethylhexyl)phthalate	11	U
51-28-5	2,4-Dinitrophenol	6.2	U	85-68-7	Butylbenzylphthalate	1.2	U
121-14-2	2,4-Dinitrotoluene	1.2	U	105-60-2	Caprolactam	1.2	U
606-20-2	2,6-Dinitrotoluene	1.2	U	86-74-8	Carbazole	1.2	U
91-58-7	2-Chloronaphthalene	1.2	U	218-01-9	Chrysene	1.2	U
95-57-8	2-Chlorophenol	1.2	U	53-70-3	Dibenzo[a,h]anthracene	1.2	U
91-57-6	**2-Methylnaphthalene**	**1.2**	**12**	**132-64-9**	**Dibenzofuran**	**0.32**	**0.59**
95-48-7	2-Methylphenol	0.39	U	84-66-2	Diethylphthalate	22	U
88-74-4	2-Nitroaniline	1.2	U	131-11-3	Dimethylphthalate	1.2	U
88-75-5	2-Nitrophenol	1.2	U	84-74-2	Di-n-butylphthalate	30	U
106-44-5	3&4-Methylphenol	0.41	U	117-84-0	Di-n-octylphthalate	1.2	U
91-94-1	3,3'-Dichlorobenzidine	1.2	U	**206-44-0**	**Fluoranthene**	**1.2**	**2.2**
99-09-2	3-Nitroaniline	1.2	U	86-73-7	Fluorene	1.2	U
534-52-1	4,6-Dinitro-2-methylphenol	6.2	U	118-74-1	Hexachlorobenzene	1.2	U
101-55-3	4-Bromophenyl-phenylether	1.2	U	87-68-3	Hexachlorobutadiene	1.2	U
59-50-7	4-Chloro-3-methylphenol	1.2	U	77-47-4	Hexachlorocyclopentadiene	4.2	U
106-47-8	4-Chloroaniline	0.43	U	67-72-1	Hexachloroethane	1.2	U
7005-72-3	4-Chlorophenyl-phenylether	1.2	U	193-39-5	Indeno[1,2,3-cd]pyrene	1.2	U
100-01-6	4-Nitroaniline	1.2	U	78-59-1	Isophorone	1.2	U
100-02-7	4-Nitrophenol	1.2	U	91-20-3	Naphthalene	0.31	U
83-32-9	Acenaphthene	1.2	U	98-95-3	Nitrobenzene	1.2	U
208-96-8	Acenaphthylene	1.2	U	62-75-9	N-Nitrosodimethylamine	1.2	U
98-86-2	Acetophenone	1.2	U	621-64-7	N-Nitroso-di-n-propylamine	0.32	U
120-12-7	Anthracene	1.2	U	86-30-6	n-Nitrosodiphenylamine	1.2	U
1912-24-9	Atrazine	1.2	U	87-86-5	Pentachlorophenol	6.2	U
100-52-7	Benzaldehyde	1.2	U	**85-01-8**	**Phenanthrene**	**1.2**	**1.8**
92-87-5	Benzidine	3.6	U	108-95-2	Phenol	1.2	U
56-55-3	Benzo[a]anthracene	1.2	U	**129-00-0**	**Pyrene**	**1.2**	**2.7**

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

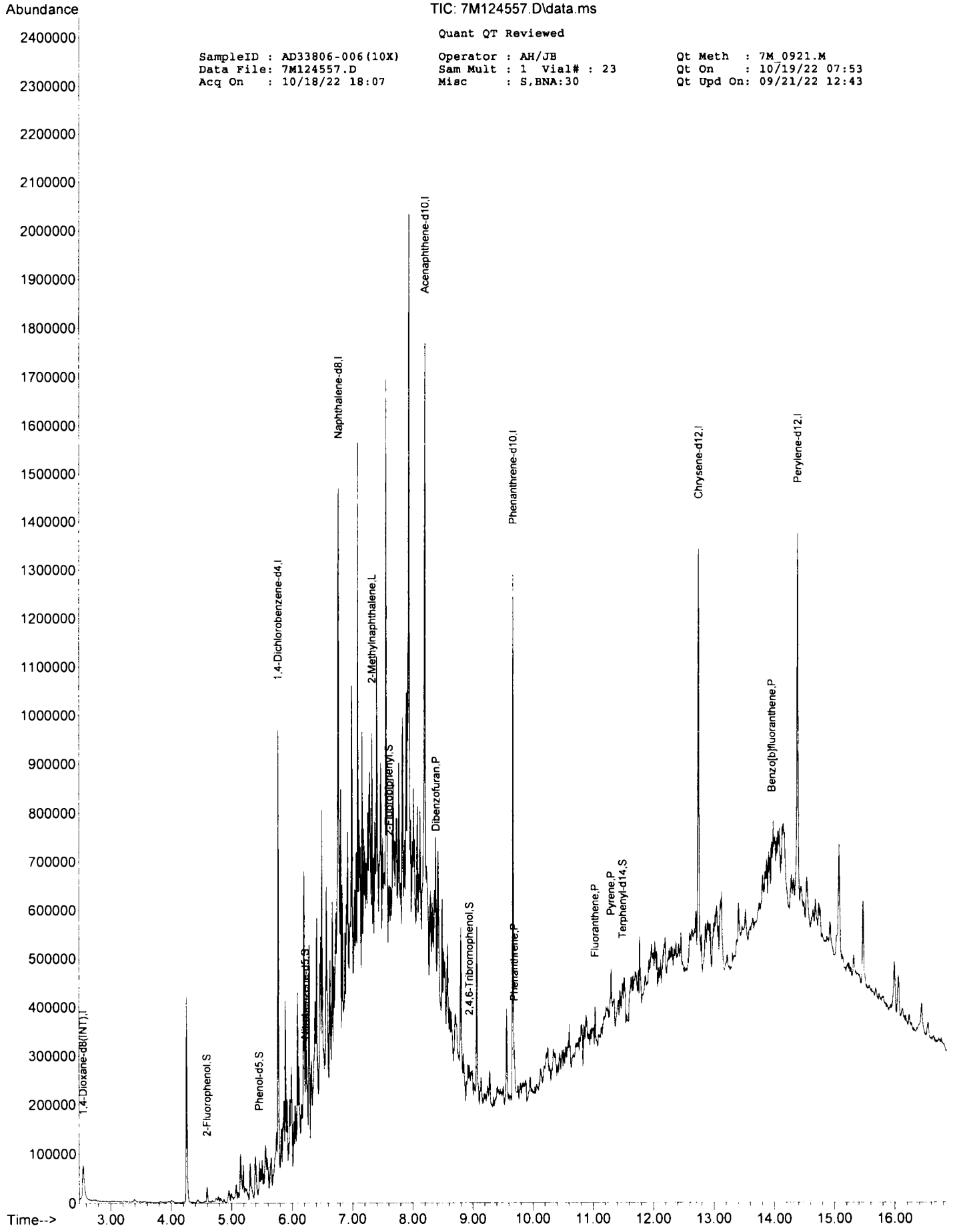
Quantitation Report (QT Reviewed)

SampleID : AD33806-006(10X) Operator : AH/JB Qt Meth : 7M_0921.M
Data File: 7M124557.D Sam Mult : 1 Vial# : 23 Qt On : 10/19/22 07:53
Acq On : 10/18/22 18:07 Misc : S,BNA:30 Qt Upd On: 09/21/22 12:43

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-1822\
Qt Path : G:\GCMSDATA\2022\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.552	96	56646	40.00	ng	-0.01
21) 1,4-Dichlorobenzene-d4	5.772	152	127504	40.00	ng	0.00
31) Naphthalene-d8	6.776	136	391549	40.00	ng	0.00
50) Acenaphthene-d10	8.204	164	253859	40.00	ng	0.00
77) Phenanthrene-d10	9.673	188	455618	40.00	ng	0.00
91) Chrysene-d12	12.752	240	346265	40.00	ng	0.01
103) Perylene-d12	14.391	264	343862	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.597	112	11965	3.81	ng	0.00
Spiked Amount 100.000			Recovery =	3.81%		
16) Phenol-d5	5.460	99	13598	3.69	ng	0.00
Spiked Amount 100.000			Recovery =	3.69%		
32) Nitrobenzene-d5	6.218	128	2521m	1.64	ng	0.00
Spiked Amount 50.000			Recovery =	3.28%		
55) 2-Fluorobiphenyl	7.611	172	14280	1.54	ng	0.00
Spiked Amount 50.000			Recovery =	3.08%		
80) 2,4,6-Tribromophenol	8.945	330	3248	3.12	ng	0.00
Spiked Amount 100.000			Recovery =	3.12%		
94) Terphenyl-d14	11.495	244	12243	1.85	ng	0.00
Spiked Amount 50.000			Recovery =	3.70%		
Target Compounds						Qvalue
46) 2-Methylnaphthalene	7.323	142	123742m	18.4751	ng	
68) Dibenzofuran	8.386	168	11155m	0.9516	ng	
86) Phenanthrene	9.697	178	32131m	2.8864	ng	
90) Fluoranthene	11.036	202	43185m	3.4713	ng	
92) Pyrene	11.301	202	48713m	4.3519	ng	
105) Benzo[b]fluoranthene	13.962	252	20776m	2.1442	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M124557.D\data.ms
Quant QT Reviewed
SampleID : AD33806-006(10X)
Data File: 7M124557.D
Acq On : 10/18/22 18:07
Operator : AH/JB
Sam Mult : 1 Vial# : 23
Misc : S,BNA:30
Qt Meth : 7M_0921.M
Qt On : 10/19/22 07:53
Qt Upd On: 09/21/22 12:43
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
2-Methylnaphthalene,L
2-Fluorobiphenyl,S
Acenaphthene-d10,I
Dibenzofuran,P
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo[b]fluoranthene,P
Perylene-d12,I
Time-->

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD33806-007
Client Id: SB-67AS(8-10')
Data File: 10M93359.D
Analysis Date: 10/18/22 14:28
Date Rec/Extracted: 10/10/22-10/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.043	U	50-32-8	Benzo[a]pyrene	0.043	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.043	U	**205-99-2**	**Benzo[b]fluoranthene**	**0.043**	**0.054**
122-66-7	1,2-Diphenylhydrazine	0.043	U	191-24-2	Benzo[g,h,i]perylene	0.043	U
123-91-1	1,4-Dioxane	0.012	U	207-08-9	Benzo[k]fluoranthene	0.043	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.043	U	100-51-6	Benzyl alcohol	0.043	U
95-95-4	2,4,5-Trichlorophenol	0.043	U	111-91-1	bis(2-Chloroethoxy)methan	0.043	U
88-06-2	2,4,6-Trichlorophenol	0.043	U	111-44-4	bis(2-Chloroethyl)ether	0.014	U
120-83-2	2,4-Dichlorophenol	0.014	U	108-60-1	bis(2-chloroisopropyl)ether	0.043	U
105-67-9	2,4-Dimethylphenol	0.024	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.39	U
51-28-5	2,4-Dinitrophenol	0.21	U	85-68-7	Butylbenzylphthalate	0.043	U
121-14-2	2,4-Dinitrotoluene	0.043	U	105-60-2	Caprolactam	0.043	U
606-20-2	2,6-Dinitrotoluene	0.043	U	86-74-8	Carbazole	0.043	U
91-58-7	2-Chloronaphthalene	0.043	U	218-01-9	Chrysene	0.043	U
95-57-8	2-Chlorophenol	0.043	U	53-70-3	Dibenzo[a,h]anthracene	0.043	U
91-57-6	2-Methylnaphthalene	0.043	U	132-64-9	Dibenzofuran	0.011	U
95-48-7	2-Methylphenol	0.013	U	84-66-2	Diethylphthalate	0.76	U
88-74-4	2-Nitroaniline	0.043	U	131-11-3	Dimethylphthalate	0.043	U
88-75-5	2-Nitrophenol	0.043	U	84-74-2	Di-n-butylphthalate	1.0	U
106-44-5	3&4-Methylphenol	0.014	U	117-84-0	Di-n-octylphthalate	0.043	U
91-94-1	3,3'-Dichlorobenzidine	0.043	U	**206-44-0**	**Fluoranthene**	**0.043**	**0.056**
99-09-2	3-Nitroaniline	0.043	U	86-73-7	Fluorene	0.043	U
534-52-1	4,6-Dinitro-2-methylphenol	0.21	U	118-74-1	Hexachlorobenzene	0.043	U
101-55-3	4-Bromophenyl-phenylether	0.043	U	87-68-3	Hexachlorobutadiene	0.043	U
59-50-7	4-Chloro-3-methylphenol	0.043	U	77-47-4	Hexachlorocyclopentadiene	0.14	U
106-47-8	4-Chloroaniline	0.015	U	67-72-1	Hexachloroethane	0.043	U
7005-72-3	4-Chlorophenyl-phenylether	0.043	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.043	U
100-01-6	4-Nitroaniline	0.043	U	78-59-1	Isophorone	0.043	U
100-02-7	4-Nitrophenol	0.043	U	**91-20-3**	**Naphthalene**	**0.011**	**0.021**
83-32-9	Acenaphthene	0.043	U	98-95-3	Nitrobenzene	0.043	U
208-96-8	Acenaphthylene	0.043	U	62-75-9	N-Nitrosodimethylamine	0.043	U
98-86-2	Acetophenone	0.043	U	621-64-7	N-Nitroso-di-n-propylamine	0.011	U
120-12-7	Anthracene	0.043	U	86-30-6	n-Nitrosodiphenylamine	0.043	U
1912-24-9	Atrazine	0.043	U	87-86-5	Pentachlorophenol	0.21	U
100-52-7	Benzaldehyde	0.043	U	85-01-8	Phenanthrene	0.043	U
92-87-5	Benzidine	0.12	U	108-95-2	Phenol	0.043	U
56-55-3	Benzo[a]anthracene	0.043	U	**129-00-0**	**Pyrene**	**0.043**	**0.049**

Worksheet #: 661854

Total Target Concentration 0.18

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

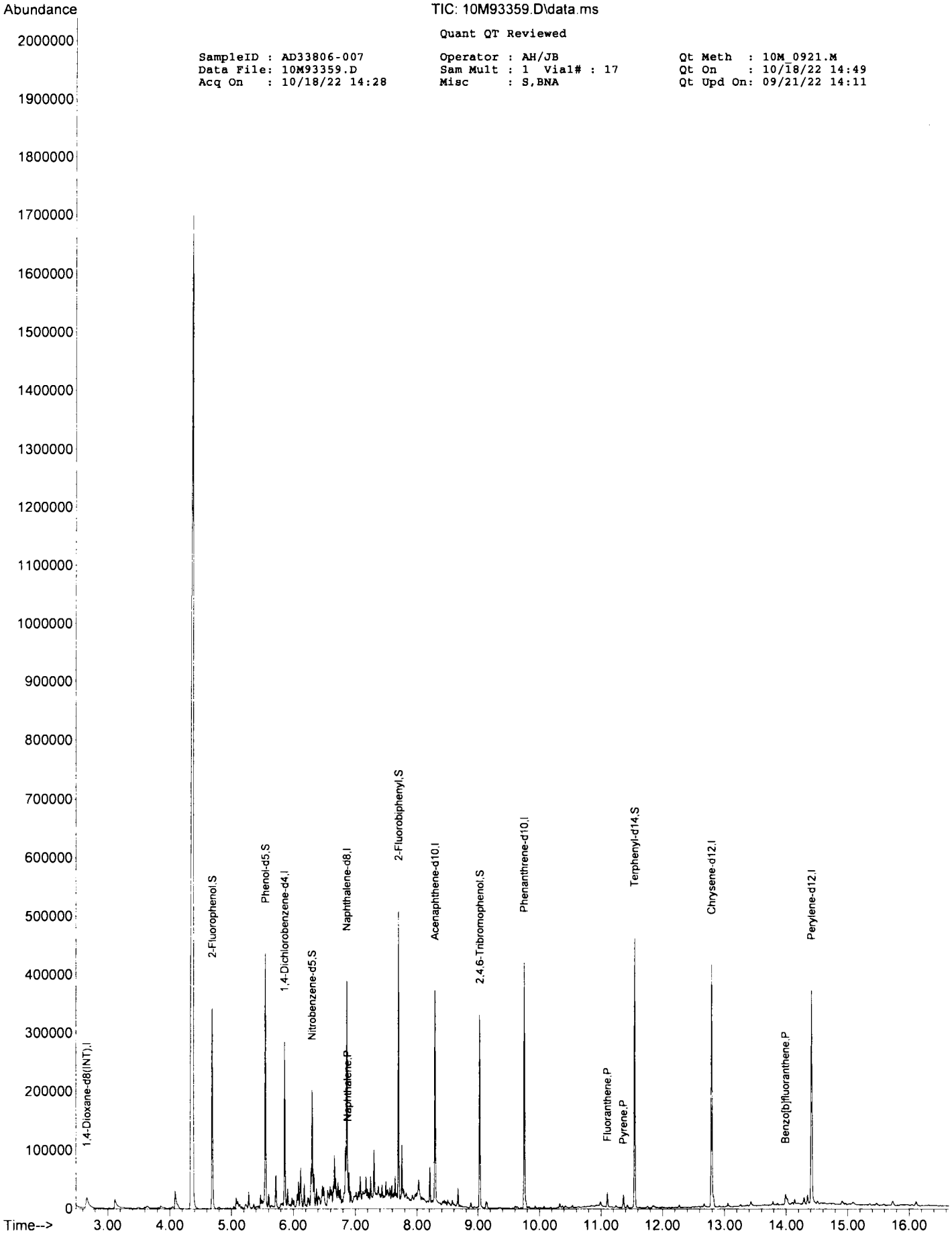
SampleID : AD33806-007 Operator : AH/JB Qt Meth : 10M_0921.M
Data File: 10M93359.D Sam Mult : 1 Vial# : 17 Qt On : 10/18/22 14:49
Acq On : 10/18/22 14:28 Misc : S,BNA Qt Upd On: 09/21/22 14:11

Data Path : G:\GcMsData\2022\GCMS_10\Data\10-18-22\
Qt Path : G:\GCMSDATA\2022\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.663	96	20487	40.00	ng	-0.04
21) 1,4-Dichlorobenzene-d4	5.862	152	42797	40.00	ng	-0.01
31) Naphthalene-d8	6.862	136	161705	40.00	ng	-0.01
50) Acenaphthene-d10	8.290	164	80764	40.00	ng	-0.01
77) Phenanthrene-d10	9.750	188	171390	40.00	ng	-0.01
91) Chrysene-d12	12.794	240	157006	40.00	ng	-0.01
103) Perylene-d12	14.414	264	163330	40.00	ng	-0.01
System Monitoring Compounds						
11) 2-Fluorophenol	4.690	112	113933	100.55	ng	0.00
Spiked Amount 100.000			Recovery = 100.55%			
16) Phenol-d5	5.552	99	138800	103.79	ng	0.00
Spiked Amount 100.000			Recovery = 103.79%			
32) Nitrobenzene-d5	6.306	128	28715	48.77	ng	-0.01
Spiked Amount 50.000			Recovery = 97.54%			
55) 2-Fluorobiphenyl	7.702	172	140844	49.55	ng	0.00
Spiked Amount 50.000			Recovery = 99.10%			
80) 2,4,6-Tribromophenol	9.034	330	45680	107.32	ng	0.00
Spiked Amount 100.000			Recovery = 107.32%			
94) Terphenyl-d14	11.547	244	155480	56.05	ng	-0.01
Spiked Amount 50.000			Recovery = 112.10%			
Target Compounds						Qvalue
41) Naphthalene	6.878	128	4051m	0.9836	ng	
90) Fluoranthene	11.104	202	12194m	2.6326	ng	
92) Pyrene	11.366	202	11137m	2.2794	ng	
105) Benzo[b]fluoranthene	13.992	252	11377m	2.5336	ng	

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 10M93359.D\data.ms
Quant QT Reviewed
SampleID : AD33806-007
Data File: 10M93359.D
Acq On : 10/18/22 14:28
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : S,BNA
Qt Meth : 10M_0921.M
Qt On : 10/18/22 14:49
Qt Upd On: 09/21/22 14:11
2000000
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
Naphthalene,P
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Fluoranthene,P
Pyrene,P
Terphenyl-d14,S
Chrysene-d12,I
Benzo(b)fluoranthene,P
Perylene-d12,I

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: SMB103329
Client Id:
Data File: 7M124535.D
Analysis Date: 10/18/22 09:01
Date Rec/Extracted: NA-10/17/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270E
Matrix: Soil
Initial Vol: 30g
Final Vol: 0.5ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	0.033	U	50-32-8	Benzo[a]pyrene	0.033	U
95-94-3	1,2,4,5-Tetrachlorobenzene	0.033	U	205-99-2	Benzo[b]fluoranthene	0.033	U
122-66-7	1,2-Diphenylhydrazine	0.033	U	191-24-2	Benzo[g,h,i]perylene	0.033	U
123-91-1	1,4-Dioxane	0.0095	U	207-08-9	Benzo[k]fluoranthene	0.033	U
58-90-2	2,3,4,6-Tetrachlorophenol	0.033	U	100-51-6	Benzyl alcohol	0.033	U
95-95-4	2,4,5-Trichlorophenol	0.033	U	111-91-1	bis(2-Chloroethoxy)methan	0.033	U
88-06-2	2,4,6-Trichlorophenol	0.033	U	111-44-4	bis(2-Chloroethyl)ether	0.011	U
120-83-2	2,4-Dichlorophenol	0.011	U	108-60-1	bis(2-chloroisopropyl)ether	0.033	U
105-67-9	2,4-Dimethylphenol	0.019	U	117-81-7	bis(2-Ethylhexyl)phthalate	0.30	U
51-28-5	2,4-Dinitrophenol	0.17	U	85-68-7	Butylbenzylphthalate	0.033	U
121-14-2	2,4-Dinitrotoluene	0.033	U	105-60-2	Caprolactam	0.033	U
606-20-2	2,6-Dinitrotoluene	0.033	U	86-74-8	Carbazole	0.033	U
91-58-7	2-Chloronaphthalene	0.033	U	218-01-9	Chrysene	0.033	U
95-57-8	2-Chlorophenol	0.033	U	53-70-3	Dibenzo[a,h]anthracene	0.033	U
91-57-6	2-Methylnaphthalene	0.033	U	132-64-9	Dibenzofuran	0.0087	U
95-48-7	2-Methylphenol	0.010	U	84-66-2	Diethylphthalate	0.59	U
88-74-4	2-Nitroaniline	0.033	U	131-11-3	Dimethylphthalate	0.033	U
88-75-5	2-Nitrophenol	0.033	U	84-74-2	Di-n-butylphthalate	0.80	U
106-44-5	3&4-Methylphenol	0.011	U	117-84-0	Di-n-octylphthalate	0.033	U
91-94-1	3,3'-Dichlorobenzidine	0.033	U	206-44-0	Fluoranthene	0.033	U
99-09-2	3-Nitroaniline	0.033	U	86-73-7	Fluorene	0.033	U
534-52-1	4,6-Dinitro-2-methylphenol	0.17	U	118-74-1	Hexachlorobenzene	0.033	U
101-55-3	4-Bromophenyl-phenylether	0.033	U	87-68-3	Hexachlorobutadiene	0.033	U
59-50-7	4-Chloro-3-methylphenol	0.033	U	77-47-4	Hexachlorocyclopentadiene	0.11	U
106-47-8	4-Chloroaniline	0.011	U	67-72-1	Hexachloroethane	0.033	U
7005-72-3	4-Chlorophenyl-phenylether	0.033	U	193-39-5	Indeno[1,2,3-cd]pyrene	0.033	U
100-01-6	4-Nitroaniline	0.033	U	78-59-1	Isophorone	0.033	U
100-02-7	4-Nitrophenol	0.033	U	91-20-3	Naphthalene	0.0083	U
83-32-9	Acenaphthene	0.033	U	98-95-3	Nitrobenzene	0.033	U
208-96-8	Acenaphthylene	0.033	U	62-75-9	N-Nitrosodimethylamine	0.033	U
98-86-2	Acetophenone	0.033	U	621-64-7	N-Nitroso-di-n-propylamine	0.0086	U
120-12-7	Anthracene	0.033	U	86-30-6	n-Nitrosodiphenylamine	0.033	U
1912-24-9	Atrazine	0.033	U	87-86-5	Pentachlorophenol	0.17	U
100-52-7	Benzaldehyde	0.033	U	85-01-8	Phenanthrene	0.033	U
92-87-5	Benzidine	0.096	U	108-95-2	Phenol	0.033	U
56-55-3	Benzo[a]anthracene	0.033	U	129-00-0	Pyrene	0.033	U

Worksheet #: 661854

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

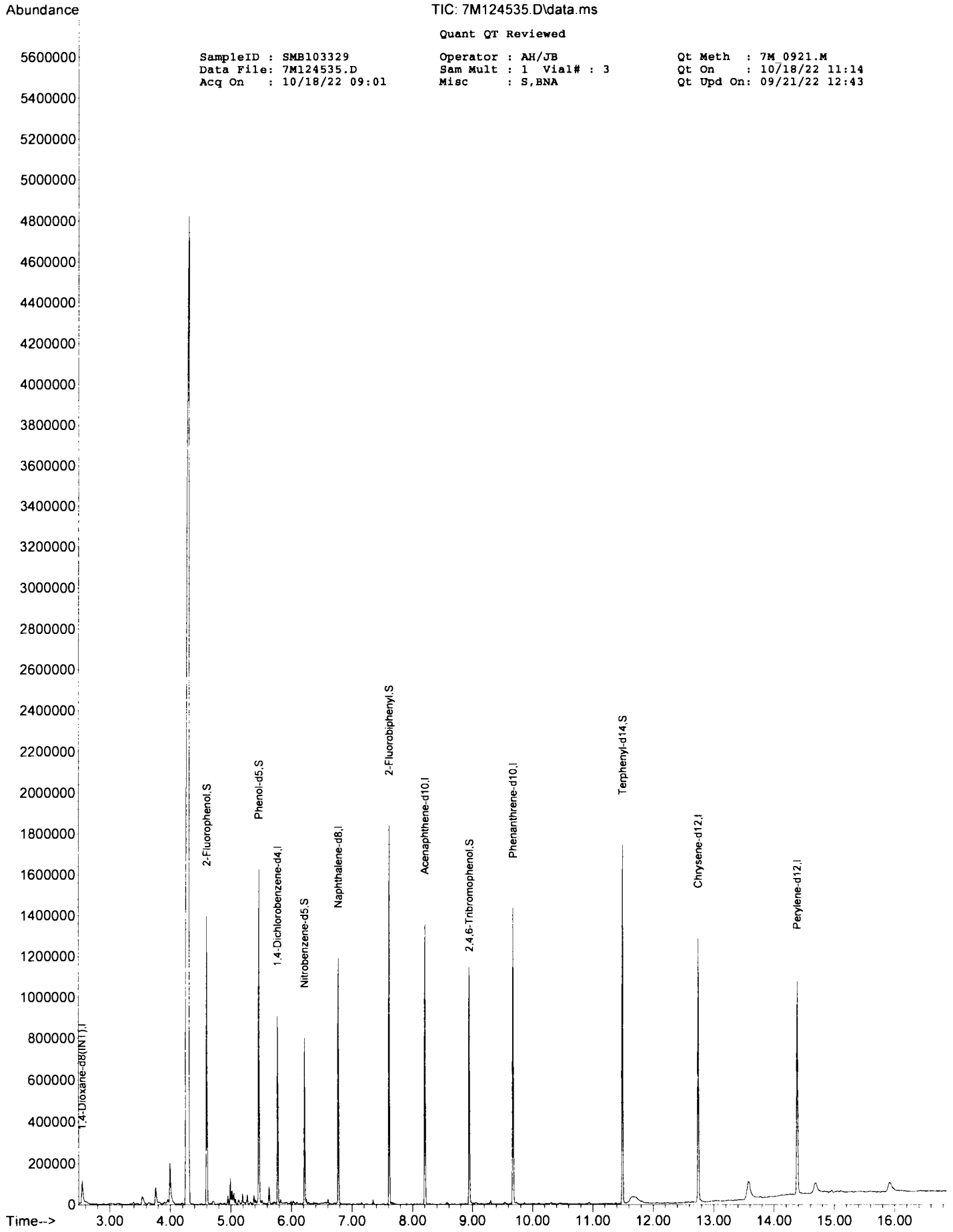
Quantitation Report (QT Reviewed)

SampleID : SMB103329 Operator : AH/JB Qt Meth : 7M_0921.M
Data File: 7M124535.D Sam Mult : 1 Vial# : 3 Qt On : 10/18/22 11:14
Acq On : 10/18/22 09:01 Misc : S,BNA Qt Upd On: 09/21/22 12:43

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-18-22\
Qt Path : G:\GCMSDATA\2022\GCMS_7\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.546	96	76658	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.772	152	134171	40.00	ng	0.00
31) Naphthalene-d8	6.777	136	506238	40.00	ng	0.00
50) Acenaphthene-d10	8.204	164	268752	40.00	ng	0.00
77) Phenanthrene-d10	9.673	188	578711	40.00	ng	0.00
91) Chrysene-d12	12.746	240	474493	40.00	ng	0.00
103) Perylene-d12	14.385	264	448281	40.00	ng	0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.603	112	407246	95.79	ng	0.00
Spiked Amount 100.000			Recovery = 95.79%			
16) Phenol-d5	5.466	99	521649	104.48	ng	0.00
Spiked Amount 100.000			Recovery = 104.48%			
32) Nitrobenzene-d5	6.218	128	110871	55.65	ng	0.00
Spiked Amount 50.000			Recovery = 111.30%			
55) 2-Fluorobiphenyl	7.611	172	510388	52.03	ng	0.00
Spiked Amount 50.000			Recovery = 104.06%			
80) 2,4,6-Tribromophenol	8.950	330	150135	113.70	ng	0.00
Spiked Amount 100.000			Recovery = 113.70%			
94) Terphenyl-d14	11.495	244	553605	61.04	ng	0.00
Spiked Amount 50.000			Recovery = 122.08%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 7M124535.D\data.ms
Quant QT Reviewed
SampleID : SMB103329
Data File: 7M124535.D
Acq On : 10/18/22 09:01
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : S,BNA
Qt Meth : 7M_0921.M
Qt On : 10/18/22 11:14
Qt Upd On: 09/21/22 12:43
1,4-Dioxane-d8(IN1),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8270E

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
7M124535.D	SMB103329	S	10/18/22 09:01	1		96	104	111	104	114	122
7M124550.D	AD33806-001	S	10/18/22 15:19	1		89	96	104	95	106	105
7M124555.D	AD33806-002	S	10/18/22 17:19	1		123	114	106	102	144	113
7M124553.D	AD33806-003	S	10/18/22 16:31	1	KT 10/25/22	59	65	63	65	71	72
7M124604.D	AD33806-004(3X)	S	10/19/22 19:58	3	~~SD~~	157*	165*	129	118	133	125
7M124554.D	AD33806-005	S	10/18/22 16:55	1		121	120	105	97	113	110
7M124557.D	AD33806-006(10X)	S	10/18/22 18:07	30		114	111	98	92	94	111
10M93359.D	AD33806-007	S	10/18/22 14:28	1		101	104	98	99	107	112
10M93345.D	SMB103329(MS)	S	10/18/22 09:12	1		109	111	109	110	126	127
7M124551.D	AD33806-001(MS)	S	10/18/22 15:43	1		98	103	113	107	129	120
7M124552.D	AD33806-001(MSD)	S	10/18/22 16:07	1		89	90	100	95	113	105

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8270E

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	43-128
S2=Phenol-d5	100	49-129
S3=Nitrobenzene-d5	50	52-129
S4=2-Fluorobiphenyl	50	58-125
S5=2,4,6-Tribromophenol	100	54-145
S6=Terphenyl-d14	50	58-148

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103329

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M93345.D	SMB103329(MS)	10/18/2022 9:12:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	18.3204	0	50	37	25	150
Pyridine	1	38.9577	0	50	78	10	150
N-Nitrosodimethylamine	1	39.5419	0	50	79	50	130
Benzaldehyde	1	48.9174	0	50	98	20	220
Aniline	1	32.4934	0	50	65	20	150
Pentachloroethane	1	42.314	0	50	85	50	130
bis(2-Chloroethyl)ether	1	41.3733	0	50	83	50	130
Phenol	1	83.4922	0	100	83	20	150
2-Chlorophenol	1	89.3717	0	100	89	50	130
N-Decane	1	39.6362	0	50	79	20	130
1,3-Dichlorobenzene	1	40.5111	0	50	81	60	130
1,4-Dichlorobenzene	1	37.7279	0	50	75	60	130
1,2-Dichlorobenzene	1	37.8684	0	50	76	50	130
Benzyl alcohol	1	40.5631	0	50	81	20	130
bis(2-chloroisopropyl)ether	1	35.0757	0	50	70	40	130
2-Methylphenol	1	83.412	0	100	83	50	130
Acetophenone	1	45.9028	0	50	92	50	130
Hexachloroethane	1	38.3244	0	50	77	50	130
N-Nitroso-di-n-propylamine	1	41.2169	0	50	82	40	130
3&4-Methylphenol	1	87.4799	0	100	87	70	130
Nitrobenzene	1	43.5965	0	50	87	70	130
Isophorone	1	38.5758	0	50	77	60	130
2-Nitrophenol	1	88.8034	0	100	89	70	130
2,4-Dimethylphenol	1	88.6313	0	100	89	40	130
Benzoic Acid	1	85.5223	0	100	86	20	130
bis(2-Chloroethoxy)methane	1	40.0007	0	50	80	60	130
2,4-Dichlorophenol	1	92.4271	0	100	92	70	130
1,2,4-Trichlorobenzene	1	41.1512	0	50	82	50	130
Naphthalene	1	39.6014	0	50	79	50	130
4-Chloroaniline	1	32.7205	0	50	65	10	150
Hexachlorobutadiene	1	43.9332	0	50	88	60	130
Caprolactam	1	48.6753	0	50	97	50	130
4-Chloro-3-methylphenol	1	98.5318	0	100	99	50	130
2-Methylnaphthalene	1	45.4278	0	50	91	70	130
1-Methylnaphthalene	1	46.122	0	50	92	70	130
1,1'-Biphenyl	1	46.4443	0	50	93	60	130
1,2,4,5-Tetrachlorobenzene	1	45.6763	0	50	91	70	130
Hexachlorocyclopentadiene	1	50.3468	0	50	101	20	160
2,4,6-Trichlorophenol	1	93.7978	0	100	94	70	130
2,4,5-Trichlorophenol	1	99.3482	0	100	99	70	130
2-Chloronaphthalene	1	41.6407	0	50	83	70	130
1,4-Dimethylnaphthalene	1	43.3017	0	50	87	70	130
Diphenyl Ether	1	45.5379	0	50	91	70	130
2-Nitroaniline	1	51.0399	0	50	102	50	130
Coumarin	1	45.5304	0	50	91	70	130
Acenaphthylene	1	45.1235	0	50	90	70	130
Dimethylphthalate	1	45.1388	0	50	90	70	130
2,6-Dinitrotoluene	1	46.0427	0	50	92	70	130
Acenaphthene	1	42.8329	0	50	86	50	130
3-Nitroaniline	1	38.2715	0	50	77	10	130
2,4-Dinitrophenol	1	88.0021	0	100	88	20	150
Dibenzofuran	1	45.8569	0	50	92	70	130
2,4-Dinitrotoluene	1	45.6104	0	50	91	40	130
4-Nitrophenol	1	110.1693	0	100	110	20	150
2,3,4,6-Tetrachlorophenol	1	101.597	0	100	102	70	130
Fluorene	1	44.8213	0	50	90	50	130
4-Chlorophenyl-phenylether	1	45.5965	0	50	91	70	130
Diethylphthalate	1	46.9189	0	50	94	70	130
4-Nitroaniline	1	46.926	0	50	94	50	130
Atrazine	1	51.2971	0	50	103	50	130
4,6-Dinitro-2-methylphenol	1	96.0999	0	100	96	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103329

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	37.2257	0	50	74	50	130
1,2-Diphenylhydrazine	1	48.485	0	50	97	70	130
4-Bromophenyl-phenylether	1	46.9417	0	50	94	70	130
Hexachlorobenzene	1	47.2014	0	50	94	70	130
N-Octadecane	1	65.0114	0	50	130	70	130
Pentachlorophenol	1	92.5325	0	100	93	40	130
Phenanthrene	1	44.4741	0	50	89	70	130
Anthracene	1	45.2917	0	50	91	70	130
Carbazole	1	46.1927	0	50	92	70	130
Di-n-butylphthalate	1	45.5061	0	50	91	70	130
Fluoranthene	1	47.6764	0	50	95	70	130
Pyrene	1	45.8894	0	50	92	50	130
Benzidine	1	4.7607	0	50	9.5*	10	130
Butylbenzylphthalate	1	43.6232	0	50	87	50	130
3,3'-Dichlorobenzidine	1	29.3039	0	50	59	10	130
Benzo[a]anthracene	1	45.1587	0	50	90	70	130
Chrysene	1	44.6955	0	50	89	60	130
bis(2-Ethylhexyl)phthalate	1	43.1204	0	50	86	70	130
Di-n-octylphthalate	1	41.9891	0	50	84	70	130
Benzo[b]fluoranthene	1	47.8647	0	50	96	70	130
Benzo[k]fluoranthene	1	48.422	0	50	97	70	130
Benzo[a]pyrene	1	47.3421	0	50	95	70	130
Indeno[1,2,3-cd]pyrene	1	49.6007	0	50	99	70	130
Dibenzo[a,h]anthracene	1	47.9502	0	50	96	60	130
Benzo[g,h,i]perylene	1	45.528	0	50	91	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103329

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M124551.D	AD33806-001(MS)	10/18/2022 3:43:00 PM
Non Spike(If applicable):	7M124550.D	AD33806-001	10/18/2022 3:19:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	20.7789	0	50	42	25	150
Pyridine	1	42.9848	0	50	86	10	150
N-Nitrosodimethylamine	1	40.1994	0	50	80	50	130
Benzaldehyde	1	41.7519	0	50	84	20	220
Aniline	1	27.6736	0	50	55	20	150
Pentachloroethane	1	37.1596	0	50	74	50	130
bis(2-Chloroethyl)ether	1	38.0311	0	50	76	50	130
Phenol	1	77.2323	0	100	77	20	150
2-Chlorophenol	1	79.7713	0	100	80	50	130
N-Decane	1	35.784	0	50	72	20	130
1,3-Dichlorobenzene	1	37.5117	0	50	75	60	130
1,4-Dichlorobenzene	1	39.0841	0	50	78	60	130
1,2-Dichlorobenzene	1	38.4112	0	50	77	50	130
Benzyl alcohol	1	42.1146	0	50	84	20	130
bis(2-chloroisopropyl)ether	1	38.3295	0	50	77	40	130
2-Methylphenol	1	84.81	0	100	85	50	130
Acetophenone	1	42.4923	0	50	85	50	130
Hexachloroethane	1	38.4963	0	50	77	50	130
N-Nitroso-di-n-propylamine	1	38.5617	0	50	77	40	130
3&4-Methylphenol	1	89.5214	0	100	90	70	130
Nitrobenzene	1	42.7234	0	50	85	70	130
Isophorone	1	36.9587	0	50	74	60	130
2-Nitrophenol	1	97.1858	0	100	97	70	130
2,4-Dimethylphenol	1	80.1626	0	100	80	40	130
Benzoic Acid	1	61.2349	0	100	61	20	130
bis(2-Chloroethoxy)methane	1	41.9756	0	50	84	60	130
2,4-Dichlorophenol	1	85.7525	0	100	86	70	130
1,2,4-Trichlorobenzene	1	41.044	0	50	82	50	130
Naphthalene	1	40.5692	0.5939	50	80	50	130
4-Chloroaniline	1	27.4492	0	50	55	10	150
Hexachlorobutadiene	1	39.893	0	50	80	60	130
Caprolactam	1	42.2415	0	50	84	50	130
4-Chloro-3-methylphenol	1	86.2017	0	100	86	50	130
2-Methylnaphthalene	1	45.6877	0	50	91	70	130
1-Methylnaphthalene	1	43.2913	0	50	87	70	130
1,1'-Biphenyl	1	41.9142	0	50	84	60	130
1,2,4,5-Tetrachlorobenzene	1	45.5908	0	50	91	70	130
Hexachlorocyclopentadiene	1	30.9739	0	50	62	20	160
2,4,6-Trichlorophenol	1	90.6909	0	100	91	70	130
2,4,5-Trichlorophenol	1	89.9899	0	100	90	70	130
2-Chloronaphthalene	1	42.7418	0	50	85	70	130
1,4-Dimethylnaphthalene	1	43.4687	0	50	87	70	130
Diphenyl Ether	1	44.8362	0	50	90	70	130
2-Nitroaniline	1	48.213	0	50	96	50	130
Coumarin	1	43.1593	0	50	86	70	130
Acenaphthylene	1	45.5976	0	50	91	70	130
Dimethylphthalate	1	40.9441	0	50	82	70	130
2,6-Dinitrotoluene	1	44.6489	0	50	89	70	130
Acenaphthene	1	43.917	0	50	88	50	130
3-Nitroaniline	1	39.5995	0	50	79	70	130
2,4-Dinitrophenol	1	79.6106	0	100	80	20	150
Dibenzofuran	1	43.4624	0.5325	50	86	70	130
2,4-Dinitrotoluene	1	43.43	0	50	87	40	130
4-Nitrophenol	1	88.0827	0	100	88	20	150
2,3,4,6-Tetrachlorophenol	1	84.4555	0	100	84	70	130
Fluorene	1	43.9546	0	50	88	50	130
4-Chlorophenyl-phenylether	1	41.615	0	50	83	70	130
Diethylphthalate	1	40.3684	0	50	81	70	130
4-Nitroaniline	1	42.8793	0	50	86	50	130
Atrazine	1	40.9034	0	50	82	50	130
4,6-Dinitro-2-methylphenol	1	93.9018	0	100	94	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103329

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	37.7216	0	50	75	50	130
1,2-Diphenylhydrazine	1	47.883	0	50	96	70	130
4-Bromophenyl-phenylether	1	45.1043	0	50	90	70	130
Hexachlorobenzene	1	43.3495	0	50	87	70	130
N-Octadecane	1	65.5681	0	50	131*	70	130
Pentachlorophenol	1	80.1691	0	100	80	40	130
Phenanthrene	1	50.3781	8.9173	50	83	70	130
Anthracene	1	46.3574	2.3092	50	88	70	130
Carbazole	1	43.2069	0	50	86	70	130
Di-n-butylphthalate	1	48.1307	0	50	96	70	130
Fluoranthene	1	56.4333	14.0575	50	85	70	130
Pyrene	1	58.4135	12.8932	50	91	50	130
Benzidine	1	2.6104	0	50	5.2*	10	130
Butylbenzylphthalate	1	48.7379	0	50	97	50	130
3,3'-Dichlorobenzidine	1	34.834	0	50	70	10	130
Benzo[a]anthracene	1	51.1057	7.5198	50	87	70	130
Chrysene	1	50.0399	7.0582	50	86	60	130
bis(2-Ethylhexyl)phthalate	1	48.2058	0	50	96	70	130
Di-n-octylphthalate	1	51.1632	0	50	102	70	130
Benzo[b]fluoranthene	1	55.2849	10.624	50	89	70	130
Benzo[k]fluoranthene	1	50.3799	2.6329	50	95	70	130
Benzo[a]pyrene	1	50.9	6.9533	50	88	70	130
Indeno[1,2,3-cd]pyrene	1	52.7474	4.8139	50	96	70	130
Dibenzo[a,h]anthracene	1	47.1403	0	50	94	60	130
Benzo[g,h,i]perylene	1	49.2961	5.7033	50	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103329

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M124552.D	AD33806-001(MSD)	10/18/2022 4:07:00 PM
Non Spike(If applicable):	7M124550.D	AD33806-001	10/18/2022 3:19:00 PM
Inst Blank(If applicable):			

Method: 8270E Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	18.1264	0	50	36	25	150
Pyridine	1	36.7407	0	50	73	10	150
N-Nitrosodimethylamine	1	34.654	0	50	69	50	130
Benzaldehyde	1	39.8766	0	50	80	20	220
Aniline	1	26.1214	0	50	52	20	150
Pentachloroethane	1	35.7789	0	50	72	50	130
bis(2-Chloroethyl)ether	1	33.0608	0	50	66	50	130
Phenol	1	64.6629	0	100	65	20	150
2-Chlorophenol	1	70.5451	0	100	71	50	130
N-Decane	1	33.5936	0	50	67	20	130
1,3-Dichlorobenzene	1	31.6749	0	50	63	60	130
1,4-Dichlorobenzene	1	33.6971	0	50	67	60	130
1,2-Dichlorobenzene	1	33.7544	0	50	68	50	130
Benzyl alcohol	1	36.2707	0	50	73	20	130
bis(2-chloroisopropyl)ether	1	33.8322	0	50	68	40	130
2-Methylphenol	1	72.5086	0	100	73	50	130
Acetophenone	1	38.8782	0	50	78	50	130
Hexachloroethane	1	33.3453	0	50	67	50	130
N-Nitroso-di-n-propylamine	1	32.4305	0	50	65	40	130
3&4-Methylphenol	1	74.9992	0	100	75	70	130
Nitrobenzene	1	36.3524	0	50	73	70	130
Isophorone	1	31.7407	0	50	63	60	130
2-Nitrophenol	1	81.4162	0	100	81	70	130
2,4-Dimethylphenol	1	65.7804	0	100	66	40	130
Benzoic Acid	1	60.2357	0	100	60	20	130
bis(2-Chloroethoxy)methane	1	36.7318	0	50	73	60	130
2,4-Dichlorophenol	1	76.0734	0	100	76	70	130
1,2,4-Trichlorobenzene	1	35.8858	0	50	72	50	130
Naphthalene	1	34.7778	0.5939	50	68	50	130
4-Chloroaniline	1	28.4812	0	50	57	10	150
Hexachlorobutadiene	1	33.1095	0	50	66	60	130
Caprolactam	1	39.9889	0	50	80	50	130
4-Chloro-3-methylphenol	1	73.8864	0	100	74	50	130
2-Methylnaphthalene	1	39.9313	0	50	80	70	130
1-Methylnaphthalene	1	40.6317	0	50	81	70	130
1,1'-Biphenyl	1	39.5238	0	50	79	60	130
1,2,4,5-Tetrachlorobenzene	1	42.5299	0	50	85	70	130
Hexachlorocyclopentadiene	1	25.533	0	50	51	20	160
2,4,6-Trichlorophenol	1	78.9961	0	100	79	70	130
2,4,5-Trichlorophenol	1	79.2	0	100	79	70	130
2-Chloronaphthalene	1	36.5505	0	50	73	70	130
1,4-Dimethylnaphthalene	1	40.189	0	50	80	70	130
Diphenyl Ether	1	40.8394	0	50	82	70	130
2-Nitroaniline	1	41.9402	0	50	84	50	130
Coumarin	1	40.1531	0	50	80	70	130
Acenaphthylene	1	38.7357	0	50	77	70	130
Dimethylphthalate	1	34.8762	0	50	70	70	130
2,6-Dinitrotoluene	1	38.7655	0	50	78	70	130
Acenaphthene	1	37.1075	0	50	74	50	130
3-Nitroaniline	1	35.4349	0	50	71	70	130
2,4-Dinitrophenol	1	66.5955	0	100	67	20	150
Dibenzofuran	1	37.2128	0.5325	50	73	70	130
2,4-Dinitrotoluene	1	36.6837	0	50	73	40	130
4-Nitrophenol	1	74.5575	0	100	75	20	150
2,3,4,6-Tetrachlorophenol	1	72.718	0	100	73	70	130
Fluorene	1	37.6311	0	50	75	50	130
4-Chlorophenyl-phenylether	1	35.606	0	50	71	70	130
Diethylphthalate	1	34.6991	0	50	69*	70	130
4-Nitroaniline	1	37.6209	0	50	75	50	130
Atrazine	1	38.681	0	50	77	50	130
4,6-Dinitro-2-methylphenol	1	79.5482	0	100	80	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103329

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Nitrosodiphenylamine	1	31.6558	0	50	63	50	130
1,2-Diphenylhydrazine	1	40.6411	0	50	81	70	130
4-Bromophenyl-phenylether	1	37.8857	0	50	76	70	130
Hexachlorobenzene	1	36.41	0	50	73	70	130
N-Octadecane	1	59.5008	0	50	119	70	130
Pentachlorophenol	1	68.9635	0	100	69	40	130
Phenanthrene	1	41.4966	8.9173	50	65*	70	130
Anthracene	1	38.4902	2.3092	50	72	70	130
Carbazole	1	39.9374	0	50	80	70	130
Di-n-butylphthalate	1	41.1799	0	50	82	70	130
Fluoranthene	1	45.3474	14.0575	50	63*	70	130
Pyrene	1	46.7262	12.8932	50	68	50	130
Benzidine	1	2.4809	0	50	5*	10	130
Butylbenzylphthalate	1	41.2973	0	50	83	50	130
3,3'-Dichlorobenzidine	1	32.3347	0	50	65	10	130
Benzo[a]anthracene	1	40.5154	7.5198	50	66*	70	130
Chrysene	1	40.4821	7.0582	50	67	60	130
bis(2-Ethylhexyl)phthalate	1	39.8322	0	50	80	70	130
Di-n-octylphthalate	1	43.0849	0	50	86	70	130
Benzo[b]fluoranthene	1	44.6086	10.624	50	68*	70	130
Benzo[k]fluoranthene	1	41.7662	2.6329	50	78	70	130
Benzo[a]pyrene	1	41.0059	6.9533	50	68*	70	130
Indeno[1,2,3-cd]pyrene	1	42.975	4.8139	50	76	70	130
Dibenzo[a,h]anthracene	1	38.905	0	50	78	60	130
Benzo[g,h,i]perylene	1	39.9263	5.7033	50	68*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103329

	Data File	Sample ID:	Analysis Date
Spike or Dup:	7M124552.D	AD33806-001(MSD)	10/18/2022 4:07:00 PM
Duplicate(If applicable):	7M124551.D	AD33806-001(MS)	10/18/2022 3:43:00 PM
Inst Blank(If applicable):			

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	18.1264	20.7789	14	30
Pyridine	1	36.7407	42.9848	16	30
N-Nitrosodimethylamine	1	34.654	40.1994	15	30
Benzaldehyde	1	39.8766	41.7519	4.6	30
Aniline	1	26.1214	27.6736	5.8	30
Pentachloroethane	1	35.7789	37.1596	3.8	30
bis(2-Chloroethyl)ether	1	33.0608	38.0311	14	30
Phenol	1	64.6629	77.2323	18	40
2-Chlorophenol	1	70.5451	79.7713	12	40
N-Decane	1	33.5936	35.784	6.3	30
1,3-Dichlorobenzene	1	31.6749	37.5117	17	30
1,4-Dichlorobenzene	1	33.6971	39.0841	15	40
1,2-Dichlorobenzene	1	33.7544	38.4112	13	30
Benzyl alcohol	1	36.2707	42.1146	15	30
bis(2-chloroisopropyl)ether	1	33.8322	38.3295	12	30
2-Methylphenol	1	72.5086	84.81	16	40
Acetophenone	1	38.8782	42.4923	8.9	30
Hexachloroethane	1	33.3453	38.4963	14	30
N-Nitroso-di-n-propylamine	1	32.4305	38.5617	17	40
3&4-Methylphenol	1	74.9992	89.5214	18	30
Nitrobenzene	1	36.3524	42.7234	16	30
Isophorone	1	31.7407	36.9587	15	30
2-Nitrophenol	1	81.4162	97.1858	18	30
2,4-Dimethylphenol	1	65.7804	80.1626	20	40
Benzoic Acid	1	60.2357	61.2349	1.6	30
bis(2-Chloroethoxy)methane	1	36.7318	41.9756	13	30
2,4-Dichlorophenol	1	76.0734	85.7525	12	30
1,2,4-Trichlorobenzene	1	35.8858	41.044	13	40
Naphthalene	1	34.7778	40.5692	15	40
4-Chloroaniline	1	28.4812	27.4492	3.7	30
Hexachlorobutadiene	1	33.1095	39.893	19	30
Caprolactam	1	39.9889	42.2415	5.5	30
4-Chloro-3-methylphenol	1	73.8864	86.2017	15	40
2-Methylnaphthalene	1	39.9313	45.6877	13	30
1-Methylnaphthalene	1	40.6317	43.2913	6.3	30
1,1'-Biphenyl	1	39.5238	41.9142	5.9	30
1,2,4,5-Tetrachlorobenzene	1	42.5299	45.5908	6.9	30
Hexachlorocyclopentadiene	1	25.533	30.9739	19	30
2,4,6-Trichlorophenol	1	78.9961	90.6909	14	30
2,4,5-Trichlorophenol	1	79.2	89.9899	13	30
2-Chloronaphthalene	1	36.5505	42.7418	16	30
1,4-Dimethylnaphthalene	1	40.189	43.4687	7.8	30
Diphenyl Ether	1	40.8394	44.8362	9.3	30
2-Nitroaniline	1	41.9402	48.213	14	30
Coumarin	1	40.1531	43.1593	7.2	30
Acenaphthylene	1	38.7357	45.5976	16	30
Dimethylphthalate	1	34.8762	40.9441	16	30
2,6-Dinitrotoluene	1	38.7655	44.6489	14	30
Acenaphthene	1	37.1075	43.917	17	40
3-Nitroaniline	1	35.4349	39.5995	11	30
2,4-Dinitrophenol	1	66.5955	79.6106	18	30
Dibenzofuran	1	37.2128	43.4624	15	30
2,4-Dinitrotoluene	1	36.6837	43.43	17	40
4-Nitrophenol	1	74.5575	88.0827	17	40
2,3,4,6-Tetrachlorophenol	1	72.718	84.4555	15	30
Fluorene	1	37.6311	43.9546	16	40
4-Chlorophenyl-phenylether	1	35.606	41.615	16	30
Diethylphthalate	1	34.6991	40.3684	15	30
4-Nitroaniline	1	37.6209	42.8793	13	30
Atrazine	1	38.681	40.9034	5.6	30
4,6-Dinitro-2-methylphenol	1	79.5482	93.9018	17	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103329

Method: 8270E | Matrix: Soil | Units: mg/Kg | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Nitrosodiphenylamine	1	31.6558	37.7216	17	30
1,2-Diphenylhydrazine	1	40.6411	47.883	16	30
4-Bromophenyl-phenylether	1	37.8857	45.1043	17	30
Hexachlorobenzene	1	36.41	43.3495	17	30
N-Octadecane	1	59.5008	65.5681	9.7	30
Pentachlorophenol	1	68.9635	80.1691	15	40
Phenanthrene	1	41.4966	50.3781	19	30
Anthracene	1	38.4902	46.3574	19	30
Carbazole	1	39.9374	43.2069	7.9	30
Di-n-butylphthalate	1	41.1799	48.1307	16	30
Fluoranthene	1	45.3474	56.4333	22	30
Pyrene	1	46.7262	58.4135	22	40
Benzidine	1	2.4809	2.6104	5.1	30
Butylbenzylphthalate	1	41.2973	48.7379	17	40
3,3'-Dichlorobenzidine	1	32.3347	34.834	7.4	30
Benzo[a]anthracene	1	40.5154	51.1057	23	30
Chrysene	1	40.4821	50.0399	21	30
bis(2-Ethylhexyl)phthalate	1	39.8322	48.2058	19	30
Di-n-octylphthalate	1	43.0849	51.1632	17	30
Benzo[b]fluoranthene	1	44.6086	55.2849	21	30
Benzo[k]fluoranthene	1	41.7662	50.3799	19	30
Benzo[a]pyrene	1	41.0059	50.9	22	30
Indeno[1,2,3-cd]pyrene	1	42.975	52.7474	20	30
Dibenzo[a,h]anthracene	1	38.905	47.1403	19	30
Benzo[g,h,i]perylene	1	39.9263	49.2961	21	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103329
Blank Data File: 7M124535.D
Matrix: Soil

Blank Analysis Date: 10/18/22 09:01
Blank Extraction Date: 10/17/22
(If Applicable)
Method: EPA 8270E

Sample Number	Data File	Analysis Date
AD33806-001	7M124550.D	10/18/22 15:19
AD33806-002	7M124555.D	10/18/22 17:19
AD33806-003	7M124553.D	10/18/22 16:31
AD33806-004(3X)	7M124604.D	10/19/22 19:58
AD33806-005	7M124554.D	10/18/22 16:55
AD33806-006(10X)	7M124557.D	10/18/22 18:07
AD33806-007	10M93359.D	10/18/22 14:28
AD33806-001(MSD	7M124552.D	10/18/22 16:07
AD33806-001(MS)	7M124551.D	10/18/22 15:43
SMB103329(MS)	10M93345.D	10/18/22 09:12

Form 5

Tune Name: CAL DFTPP **Data File:** 10M92863.D
Instrument: GCMS 10 **Analysis Date:** 09/21/22 08:29
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.039 to 10.044 min

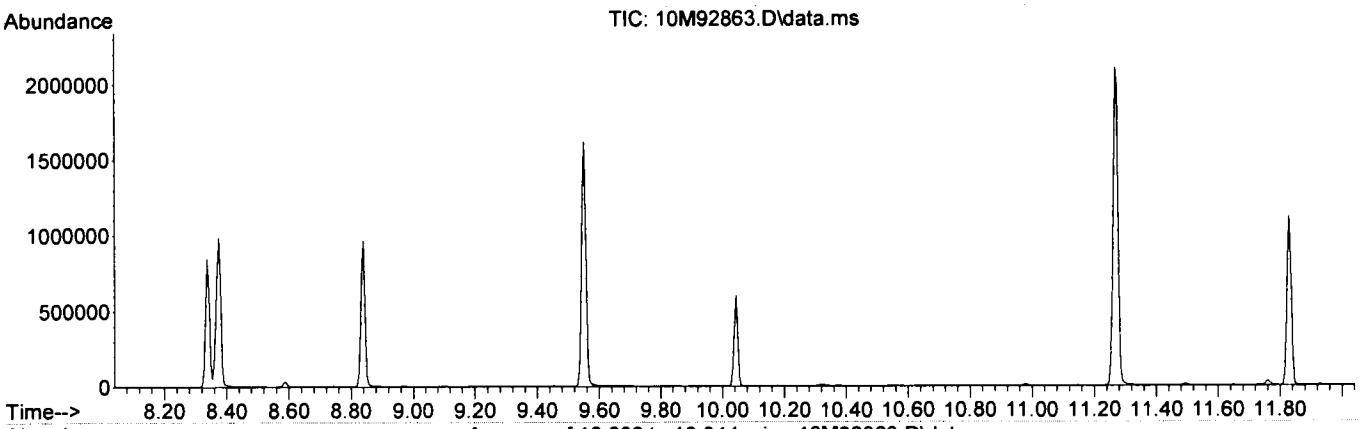
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	32.4	20360	PASS
68	69	0.00	2	1.7	390	PASS
69	198	0.00	100	36.0	22620	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.1	31496	PASS
197	198	0.00	1	0.3	190	PASS
198	198	100	100	100.0	62804	PASS
199	198	5	9	6.8	4289	PASS
275	198	10	30	23.6	14838	PASS
365	198	1	100	2.5	1576	PASS
441	443	0.01	100	70.3	6003	PASS
442	198	40	100	66.1	41484	PASS
443	442	17	23	20.6	8536	PASS

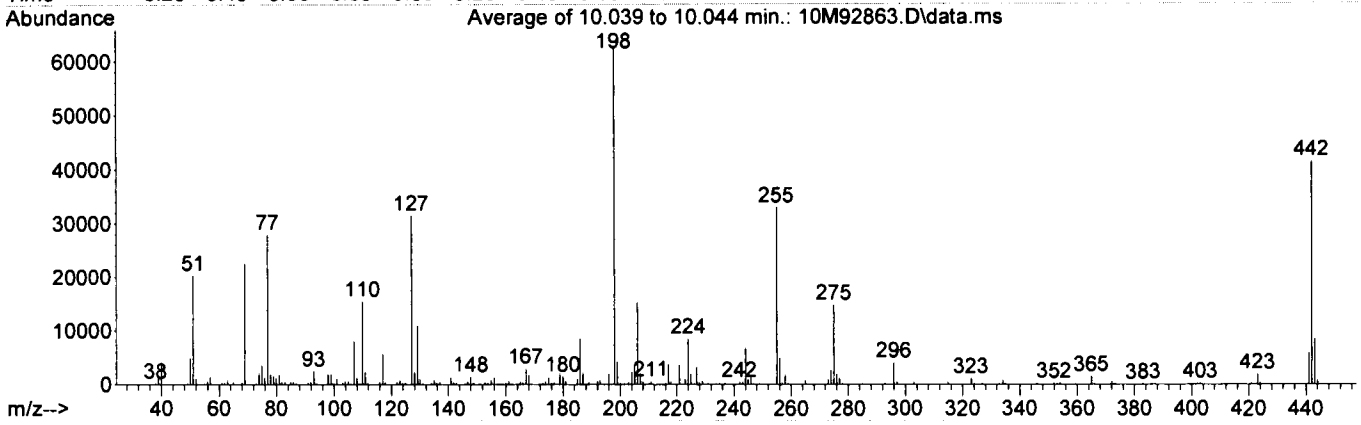
Data File	Sample Number	Analysis Date:
10M92864.D	CAL BNA@2PPM	09/21/22 08:56
10M92865.D	CAL BNA@10PPM	09/21/22 09:19
10M92866.D	CAL BNA@0.5PP	09/21/22 09:44
10M92867.D	CAL BNA@196PP	09/21/22 10:10
10M92868.D	CAL BNA@160PP	09/21/22 10:32
10M92869.D	CAL BNA@120PP	09/21/22 10:55
10M92870.D	CAL BNA@80PPM	09/21/22 11:17
10M92871.D	CAL BNA@20PPM	09/21/22 11:39
10M92872.D	CAL BNA@50PPM	09/21/22 12:02
10M92873.D	ICV BNA@50PPM	09/21/22 12:30

Data Path : G:\GcMsData\2022\GCMS_10\Data\09-21-22\
Data File : 10M92863.D
Acq On : 21 Sep 2022 8:29
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_10\MethodQt\10M_0809.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Aug 09 12:29:34 2022





Spectrum Information: Average of 10.039 to 10.044 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.4	20360	PASS
68	69	0.00	2	1.7	390	PASS
69	198	0.00	100	36.0	22620	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.1	31496	PASS
197	198	0.00	1	0.3	190	PASS
198	198	100	100	100.0	62804	PASS
199	198	5	9	6.8	4289	PASS
275	198	10	30	23.6	14838	PASS
365	198	1	100	2.5	1576	PASS
441	443	0.01	100	70.3	6003	PASS
442	198	40	100	66.1	41484	PASS
443	442	17	23	20.6	8536	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M124015.D
Instrument: GCMS 7 **Analysis Date:** 09/21/22 08:32
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.967 to 9.973 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	30.4	23244	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.4	31636	PASS
70	69	0.00	2	0.3	88	PASS
127	198	40	60	50.6	38692	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76436	PASS
199	198	5	9	6.7	5147	PASS
275	198	10	30	22.9	17472	PASS
365	198	1	100	2.4	1867	PASS
441	443	0.01	100	72.1	6423	PASS
442	198	40	100	58.3	44600	PASS
443	442	17	23	20.0	8906	PASS

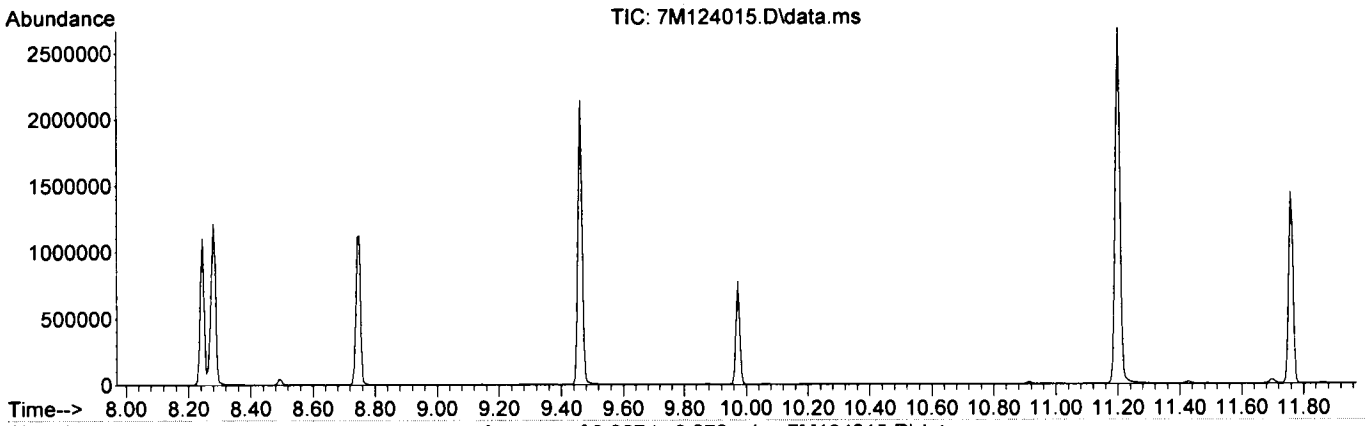
Data File	Sample Number	Analysis Date:
7M124016.D	CAL BNA@10PPM	09/21/22 08:57
7M124017.D	CAL BNA@2PPM	09/21/22 09:22
7M124018.D	CAL BNA@196PP	09/21/22 09:46
7M124019.D	CAL BNA@160PP	09/21/22 10:10
7M124020.D	CAL BNA@120PP	09/21/22 10:37
7M124021.D	CAL BNA@80PPM	09/21/22 11:01
7M124022.D	CAL BNA@20PPM	09/21/22 11:25
7M124023.D	CAL BNA@0.5PP	09/21/22 11:49
7M124024.D	CAL BNA@50PPM	09/21/22 12:13
7M124025.D	ICV BNA@50PPM	09/21/22 12:45
7M124026.D	2PPM TEST	09/21/22 13:11
7M124027.D	WMB103058(MS)	09/21/22 13:35
7M124028.D	WMB103058	09/21/22 13:59
7M124029.D	AD33294-001	09/21/22 14:23
7M124030.D	AD33294-002	09/21/22 14:48
7M124031.D	AD33336-002(MS)	09/21/22 15:12
7M124032.D	AD33336-002(MSD	09/21/22 15:36
7M124033.D	AD33336-002	09/21/22 16:00
7M124034.D	AD33336-005	09/21/22 16:24
7M124035.D	AD33336-008	09/21/22 16:48
7M124036.D	AD33336-011	09/21/22 17:13
7M124037.D	AD33336-014	09/21/22 17:37
7M124038.D	AD33336-017	09/21/22 18:01
7M124039.D	AD33336-020	09/21/22 18:25
7M124040.D	AD33336-021	09/21/22 18:49
7M124041.D	AD33336-022	09/21/22 19:14
7M124042.D	AD33336-023	09/21/22 19:38
7M124043.D	AD33336-012	09/21/22 20:02

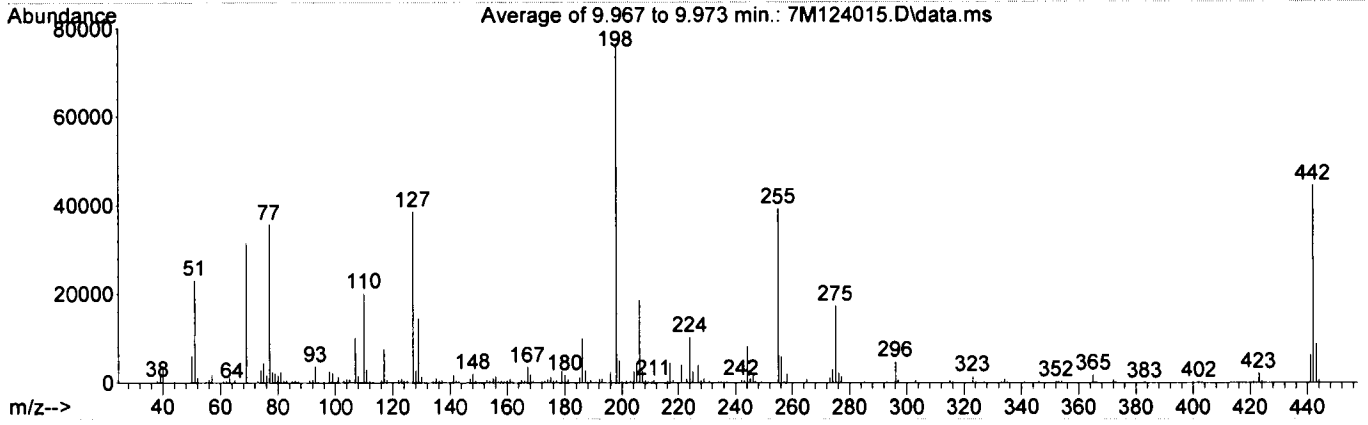
DFTPP

Data Path : G:\GcMsData\2022\GCMS_7\Data\09-21-22\
Data File : 7M124015.D
Acq On : 21 Sep 2022 8:32
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_7\MethodQt\7M_0819.M
Title : @GCMS_7,mg,625,8270
Last Update : Fri Aug 19 13:52:17 2022





Spectrum Information: Average of 9.967 to 9.973 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	30.4	23244	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.4	31636	PASS
70	69	0.00	2	0.3	88	PASS
127	198	40	60	50.6	38692	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	76436	PASS
199	198	5	9	6.7	5147	PASS
275	198	10	30	22.9	17472	PASS
365	198	1	100	2.4	1867	PASS
441	443	0.01	100	72.1	6423	PASS
442	198	40	100	58.3	44600	PASS
443	442	17	23	20.0	8906	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 10M93343.D
Instrument: GCMS 10 **Analysis Date:** 10/18/22 08:02
Method: EPA 8270E

Tune Scan/Time Range: Average of 10.029 to 10.034 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.8	14057	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.0	16167	PASS
70	69	0.00	2	0.6	95	PASS
127	198	40	60	49.4	19962	PASS
197	198	0.00	1	0.2	86	PASS
198	198	100	100	100.0	40412	PASS
199	198	5	9	6.9	2782	PASS
275	198	10	30	25.8	10429	PASS
365	198	1	100	3.1	1266	PASS
441	443	0.01	100	73.5	5164	PASS
442	198	40	100	87.9	35504	PASS
443	442	17	23	19.8	7023	PASS

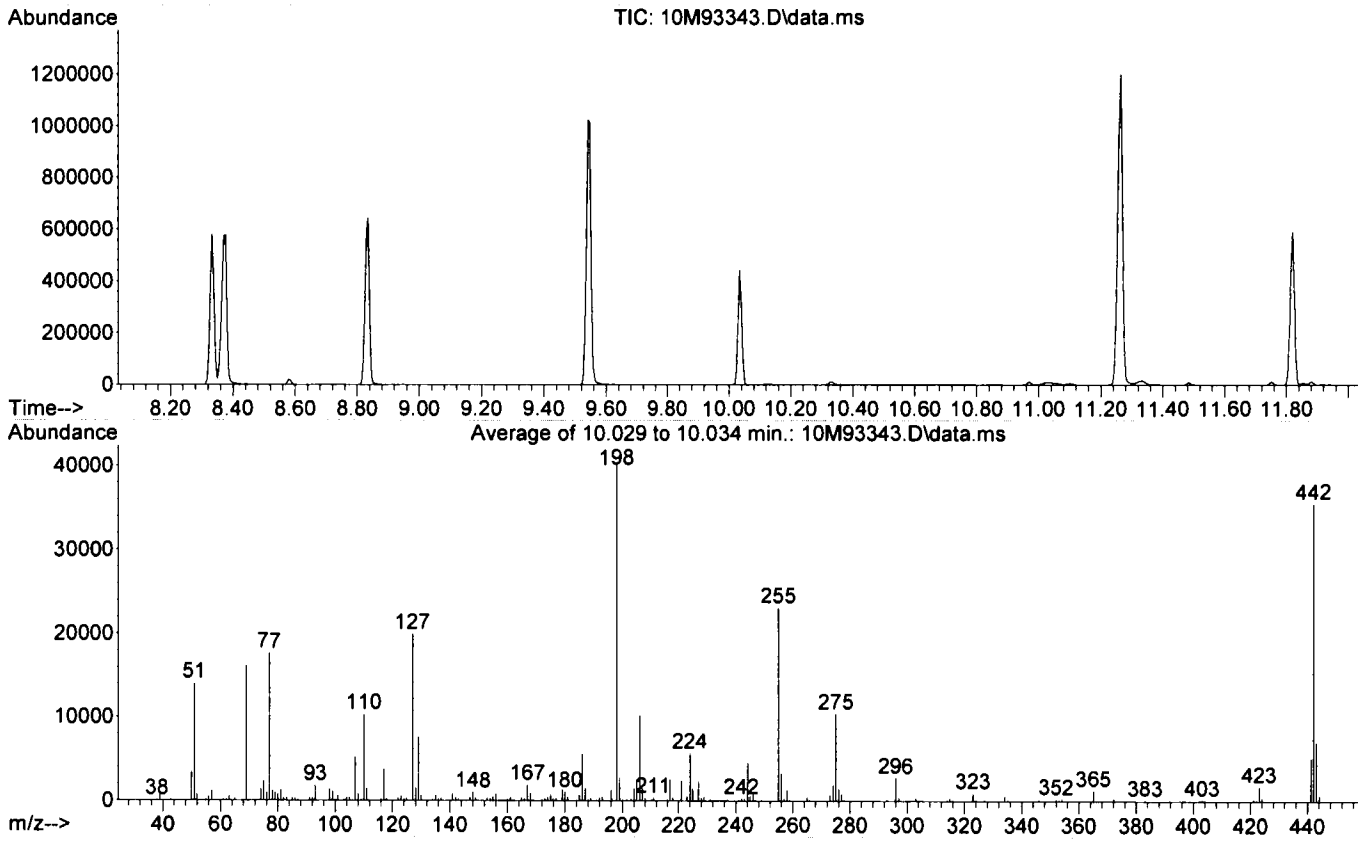
Data File	Sample Number	Analysis Date:
10M93344.D	CAL BNA@50PPM	10/18/22 08:49
10M93345.D	SMB103329(MS)	10/18/22 09:12
10M93346.D	SMB103329	10/18/22 09:34
10M93347.D	SMB103327	10/18/22 09:57
10M93348.D	AD33910-001	10/18/22 10:19
10M93349.D	AD33910-002	10/18/22 10:42
10M93350.D	AD33910-003	10/18/22 11:05
10M93351.D	AD33910-001(MS)	10/18/22 11:27
10M93352.D	AD33910-001(MSD	10/18/22 11:50
10M93353.D	AD33838-003	10/18/22 12:12
10M93354.D	AD33838-006	10/18/22 12:35
10M93355.D	AD33838-009	10/18/22 12:58
10M93356.D	AD33870-001	10/18/22 13:20
10M93357.D	AD33870-004	10/18/22 13:43
10M93358.D	AD33873-001	10/18/22 14:05
10M93359.D	AD33806-007	10/18/22 14:28
10M93360.D	WMB103328	10/18/22 14:51
10M93361.D	WMB103330	10/18/22 15:13
10M93362.D	AD33841-002	10/18/22 15:36
10M93363.D	AD33829-002(5X)	10/18/22 15:58
10M93364.D	AD33829-005(3X)	10/18/22 16:21
10M93365.D	AD33849-002	10/18/22 16:43
10M93366.D	AD33849-003	10/18/22 17:06
10M93367.D	AD33849-004	10/18/22 17:28
10M93368.D	AD33849-005	10/18/22 17:51
10M93369.D	AD33849-006	10/18/22 18:13
10M93370.D	AD33849-007	10/18/22 18:36
10M93371.D	AD33849-008	10/18/22 18:58
10M93372.D	AD33849-009	10/18/22 19:21

DFTPP

Data Path : G:\GcMsData\2022\GCMS_10\Data\10-18-22\
Data File : 10M93343.D
Acq On : 18 Oct 2022 8:02
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_10\MethodQt\10M_0921.M
Title : @GCMS_10,mg,625,8270
Last Update : Wed Sep 21 12:22:43 2022



Spectrum Information: Average of 10.029 to 10.034 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.8	14057	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.0	16167	PASS
70	69	0.00	2	0.6	95	PASS
127	198	40	60	49.4	19962	PASS
197	198	0.00	1	0.2	86	PASS
198	198	100	100	100.0	40412	PASS
199	198	5	9	6.9	2782	PASS
275	198	10	30	25.8	10429	PASS
365	198	1	100	3.1	1266	PASS
441	443	0.01	100	73.5	5164	PASS
442	198	40	100	87.9	35504	PASS
443	442	17	23	19.8	7023	PASS

KT

Form 5

Tune Name: CAL DFTPP **Data File:** 7M124533.D
Instrument: GCMS 7 **Analysis Date:** 10/18/22 08:12
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.961 to 9.967 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.5	39460	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.8	52300	PASS
70	69	0.00	2	0.7	359	PASS
127	198	40	60	50.4	63064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	125140	PASS
199	198	5	9	6.8	8479	PASS
275	198	10	30	22.9	28624	PASS
365	198	1	100	2.5	3191	PASS
441	443	0.01	100	73.2	10603	PASS
442	198	40	100	58.6	73360	PASS
443	442	17	23	19.7	14478	PASS

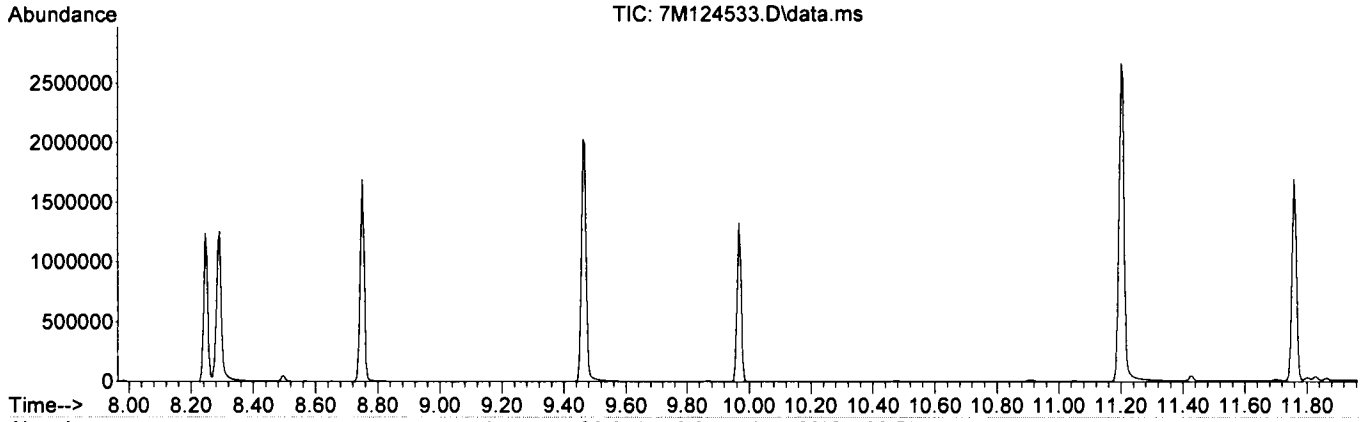
Data File	Sample Number	Analysis Date:
7M124534.D	CAL BNA@50PPM	10/18/22 08:36
7M124535.D	SMB103329	10/18/22 09:01
7M124536.D	AD33910-004	10/18/22 09:24
7M124537.D	AD33789-001	10/18/22 09:49
7M124538.D	AD33789-002	10/18/22 10:13
7M124539.D	AD33789-003	10/18/22 10:37
7M124540.D	AD33851-001	10/18/22 11:01
7M124541.D	AD33851-004	10/18/22 11:25
7M124542.D	AD33860-001	10/18/22 11:49
7M124543.D	AD33766-001(10X)	10/18/22 12:13
7M124544.D	AD33766-002(10X)	10/18/22 12:37
7M124545.D	AD33789-001(10X)	10/18/22 13:14
7M124546.D	AD33789-003(10X)	10/18/22 13:38
7M124547.D	AD33894-001(5X)	10/18/22 14:02

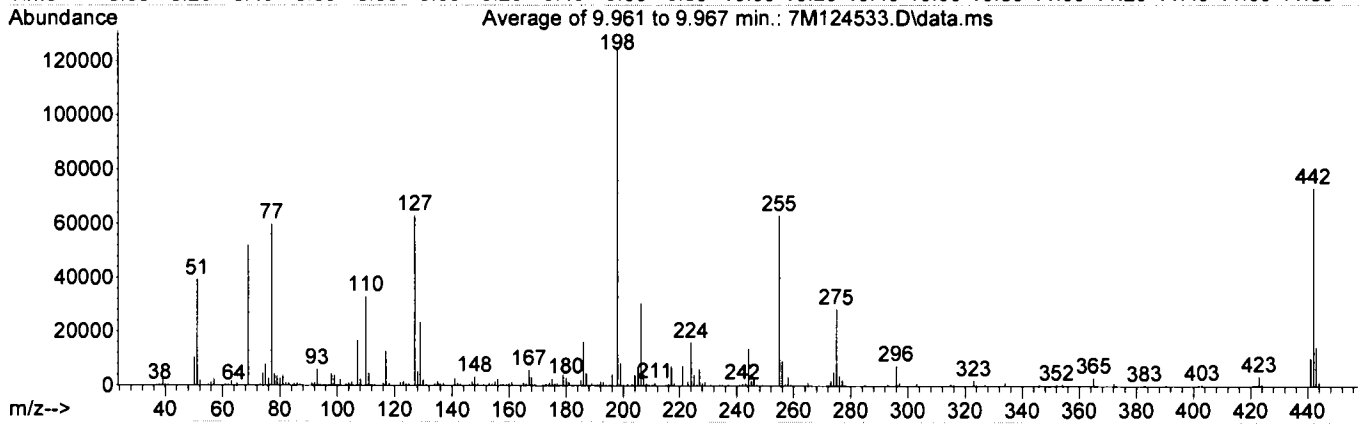
DFTPP

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-18-22\
Data File : 7M124533.D
Acq On : 18 Oct 2022 8:12
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_7\MethodQt\7M_0921.M
Title : @GCMS_7,mg,625,8270
Last Update : Wed Sep 21 12:40:38 2022





Spectrum Information: Average of 9.961 to 9.967 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.5	39460	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	41.8	52300	PASS
70	69	0.00	2	0.7	359	PASS
127	198	40	60	50.4	63064	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	125140	PASS
199	198	5	9	6.8	8479	PASS
275	198	10	30	22.9	28624	PASS
365	198	1	100	2.5	3191	PASS
441	443	0.01	100	73.2	10603	PASS
442	198	40	100	58.6	73360	PASS
443	442	17	23	19.7	14478	PASS

IC7

Form 5

Tune Name: CAL DFTPP **Data File:** 7M124548.D
Instrument: GCMS 7 **Analysis Date:** 10/18/22 14:31
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.961 to 9.961 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.5	35280	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.0	48168	PASS
70	69	0.00	2	0.6	276	PASS
127	198	40	60	52.3	58544	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	112000	PASS
199	198	5	9	6.9	7737	PASS
275	198	10	30	22.4	25144	PASS
365	198	1	100	2.0	2288	PASS
441	443	0.01	100	72.2	7906	PASS
442	198	40	100	49.2	55072	PASS
443	442	17	23	19.9	10954	PASS

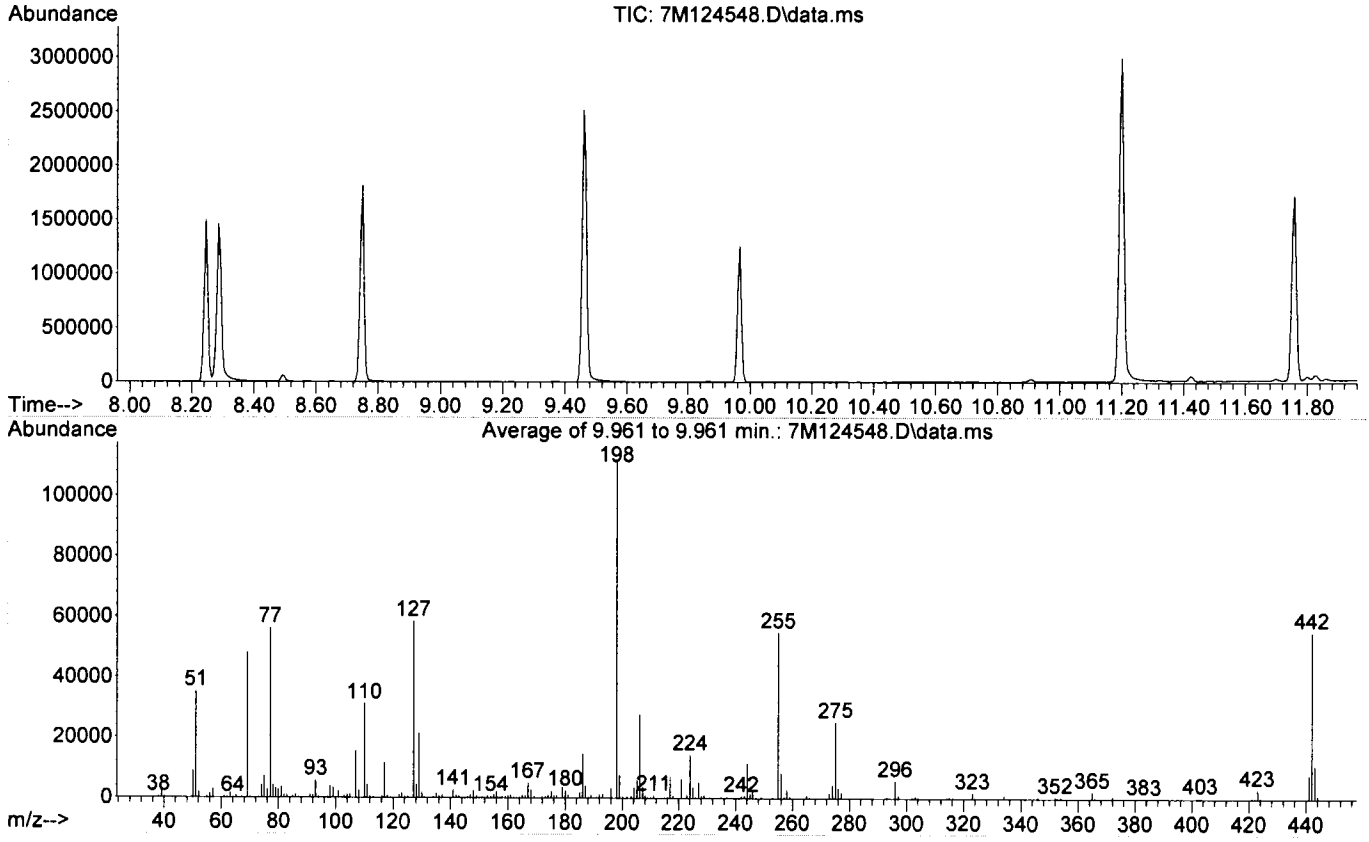
Data File	Sample Number	Analysis Date:
7M124549.D	CAL BNA@50PPM	10/18/22 14:55
7M124550.D	AD33806-001	10/18/22 15:19
7M124551.D	AD33806-001(MS)	10/18/22 15:43
7M124552.D	AD33806-001(MSD	10/18/22 16:07
7M124553.D	AD33806-003	10/18/22 16:31
7M124554.D	AD33806-005	10/18/22 16:55
7M124555.D	AD33806-002	10/18/22 17:19
7M124556.D	AD33806-004(3X)	10/18/22 17:42
7M124557.D	AD33806-006(10X)	10/18/22 18:07
7M124558.D	AD33895-001(10X)	10/18/22 18:31
7M124559.D	AD33823-001(5X)	10/18/22 18:55
7M124560.D	AD33789-001(20X)	10/18/22 19:19
7M124561.D	AD33789-003(30X)	10/18/22 19:42
7M124562.D	AD33823-002	10/18/22 20:06
7M124563.D	AD33904-001	10/18/22 20:30
7M124564.D	AD33923-002	10/18/22 20:54
7M124565.D	AD33923-004	10/18/22 21:18
7M124566.D	AD33923-006	10/18/22 21:42
7M124567.D	AD33924-002	10/18/22 22:06
7M124568.D	AD33924-004	10/18/22 22:30
7M124569.D	AD33924-006	10/18/22 22:54
7M124570.D	AD33766-001(5X)	10/18/22 23:18
7M124571.D	AD33766-002(5X)	10/18/22 23:42
7M124572.D	AD33740-001	10/19/22 00:06
7M124573.D	AD33740-002	10/19/22 00:30
7M124574.D	AD33740-003	10/19/22 00:54

DFTPP

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-1822\
Data File : 7M124548.D
Acq On : 18 Oct 2022 14:31
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_7\MethodQt\7M_0921.M
Title : @GCMS_7,mg,625,8270
Last Update : Wed Sep 21 12:40:38 2022



Spectrum Information: Average of 9.961 to 9.961 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.5	35280	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	43.0	48168	PASS
70	69	0.00	2	0.6	276	PASS
127	198	40	60	52.3	58544	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	112000	PASS
199	198	5	9	6.9	7737	PASS
275	198	10	30	22.4	25144	PASS
365	198	1	100	2.0	2288	PASS
441	443	0.01	100	72.2	7906	PASS
442	198	40	100	49.2	55072	PASS
443	442	17	23	19.9	10954	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 7M124575.D
Instrument: GCMS 7 **Analysis Date:** 10/19/22 08:21
Method: EPA 8270E

Tune Scan/Time Range: Average of 9.961 to 9.967 min

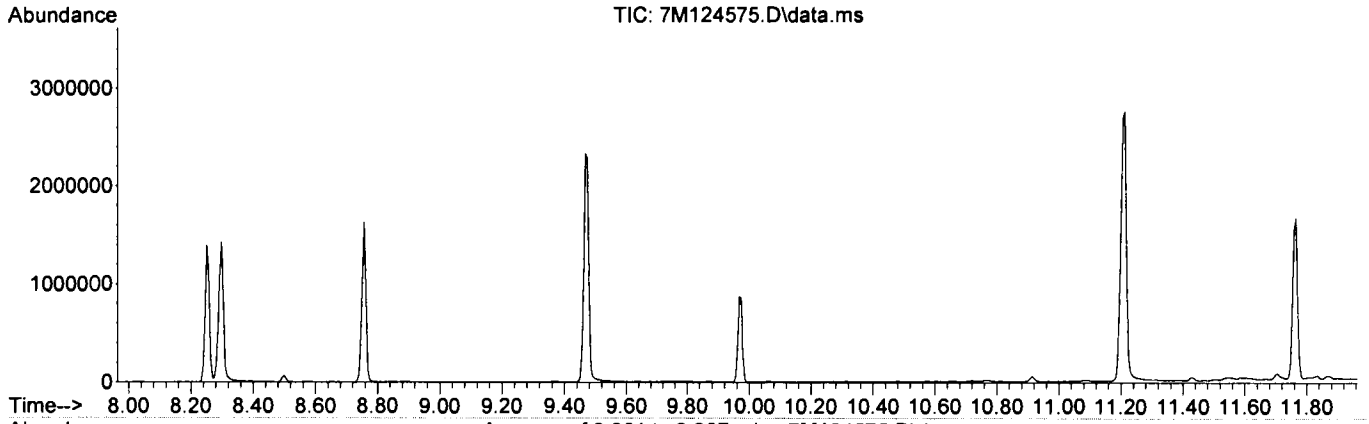
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.3	23487	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.0	31500	PASS
70	69	0.00	2	0.8	267	PASS
127	198	40	60	50.3	37736	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	74952	PASS
199	198	5	9	6.8	5101	PASS
275	198	10	30	22.9	17192	PASS
365	198	1	100	2.5	1841	PASS
441	443	0.01	100	69.8	5429	PASS
442	198	40	100	51.4	38549	PASS
443	442	17	23	20.2	7778	PASS

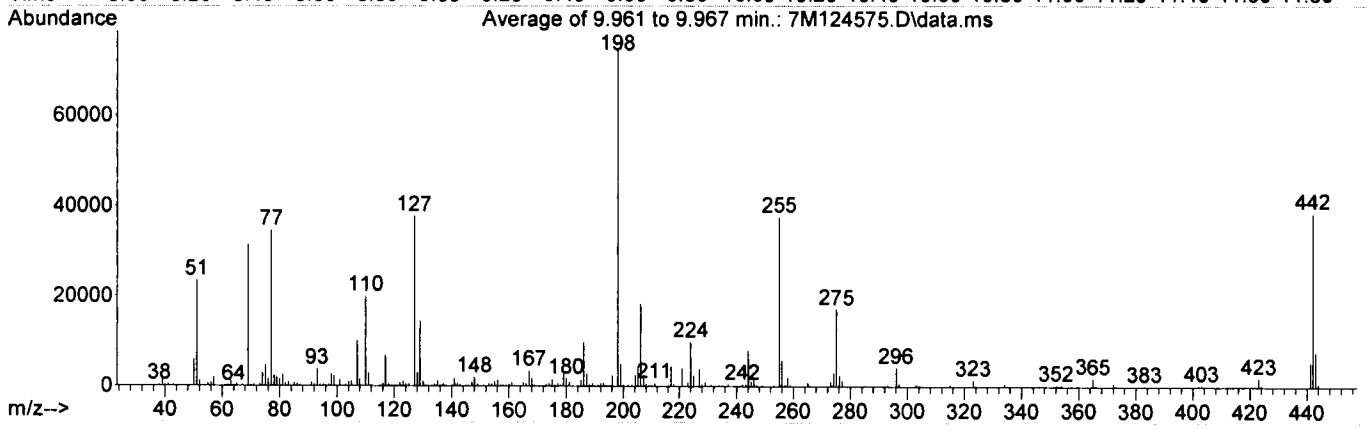
Data File	Sample Number	Analysis Date:
7M124576.D	CAL BNA@50PPM	10/19/22 08:44
7M124577.D	SMB103334	10/19/22 09:08
7M124578.D	SMB103343	10/19/22 09:32
7M124579.D	AD33776-010	10/19/22 09:56
7M124580.D	AD33776-011	10/19/22 10:20
7M124581.D	AD33914-001	10/19/22 10:44
7M124582.D	AD33939-002	10/19/22 11:09
7M124583.D	AD33939-004	10/19/22 11:33
7M124584.D	AD33926-002	10/19/22 11:57
7M124585.D	AD33926-004	10/19/22 12:21
7M124586.D	AD33926-006	10/19/22 12:45
7M124587.D	AD33925-002	10/19/22 13:09
7M124588.D	AD33776-010(R)	10/19/22 13:33
7M124589.D	AD33868-016(3X)	10/19/22 13:58
7M124590.D	AD33925-004	10/19/22 14:22
7M124591.D	AD33925-006	10/19/22 14:46
7M124592.D	AD33922-002	10/19/22 15:11
7M124593.D	AD33922-004	10/19/22 15:34
7M124594.D	AD33922-006	10/19/22 15:59
7M124595.D	AD33927-002	10/19/22 16:23
7M124596.D	AD33927-004	10/19/22 16:47
7M124597.D	AD33927-006	10/19/22 17:11
7M124598.D	AD33927-006(MS)	10/19/22 17:35
7M124599.D	AD33927-006(MSD	10/19/22 17:59
7M124600.D	AD33923-002	10/19/22 18:23
7M124601.D	AD33923-004	10/19/22 18:46
7M124602.D	AD33923-006	10/19/22 19:11
7M124603.D	AD33895-001(30X)	10/19/22 19:34
7M124604.D	AD33806-004(3X)	10/19/22 19:58

Data Path : G:\GcMsData\2022\GCMS_7\Data\10-19-22\
Data File : 7M124575.D
Acq On : 19 Oct 2022 8:21
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2022\GCMS_7\MethodQt\7M_0921.M
Title : @GCMS_7,mg,625,8270
Last Update : Wed Sep 21 12:40:38 2022





Spectrum Information: Average of 9.961 to 9.967 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.3	23487	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	42.0	31500	PASS
70	69	0.00	2	0.8	267	PASS
127	198	40	60	50.3	37736	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	74952	PASS
199	198	5	9	6.8	5101	PASS
275	198	10	30	22.9	17192	PASS
365	198	1	100	2.5	1841	PASS
441	443	0.01	100	69.8	5429	PASS
442	198	40	100	51.4	38549	PASS
443	442	17	23	20.2	7778	PASS

K1

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M92872.D	CAL BNA@50PPM	09/21/22 12:02	2	10M92864.D	CAL BNA@2PPM	09/21/22 08:56
3	10M92865.D	CAL BNA@10PPM	09/21/22 09:19	4	10M92871.D	CAL BNA@20PPM	09/21/22 11:39
5	10M92870.D	CAL BNA@80PPM	09/21/22 11:17	6	10M92869.D	CAL BNA@120PPM	09/21/22 10:55
7	10M92868.D	CAL BNA@160PPM	09/21/22 10:32	8	10M92867.D	CAL BNA@196PPM	09/21/22 10:10
9	10M92866.D	CAL BNA@0.5PPM	09/21/22 09:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9406	1.0317	1.0203	0.9770	0.9599	0.9642	0.9691	0.9869	1.0603	0.990	2.74	1.00	1.00	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Qua	1.7687	1.0737	1.3580	1.6684	1.8880	1.9417	1.9577	1.9408	-----	1.70	3.21	1.00	1.00	19		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4594	1.0225	1.3319	1.4611	1.5205	1.5390	1.5531	1.5730	-----	1.43	3.15	1.00	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.2072	1.8067	2.0272	2.2039	2.3263	2.3623	2.3851	2.3800	-----	2.21	4.69	0.999	1.00	9.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.6924	1.3018	1.6071	1.7214	1.7593	1.7542	1.7312	1.7273	-----	1.66	5.50	1.00	1.00	9.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.3550	2.6628	3.0633	3.3133	3.5224	3.5624	3.5820	3.5484	3.2150	3.31	5.59	0.999	1.00	9.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8353	0.7484	0.8079	0.8363	0.8667	0.8733	0.8706	0.8630	-----	0.838	5.64	1.00	1.00	5.1	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.4017	2.0970	2.3696	2.4682	2.4704	2.4536	2.4124	2.3599	2.4748	2.39	5.65	0.999	1.00	4.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.6423	2.1385	2.4133	2.6203	2.7816	2.7899	2.7668	2.7346	-----	2.61	5.56	1.00	1.00	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.2975	2.9324	3.1535	3.2898	3.4260	3.4090	3.3735	3.2947	-----	3.27	5.57	0.999	1.00	4.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.5308	2.2069	2.4005	2.5543	2.6641	2.6712	2.6434	2.6079	-----	2.53	5.70	1.00	1.00	6.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.2121	2.0556	2.2098	2.2934	2.2576	2.2065	2.1012	2.0082	-----	2.17	5.74	0.997	1.00	4.7	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.8342	2.5957	2.7295	2.8580	2.9265	2.9270	2.9218	2.8579	-----	2.83	5.82	1.00	1.00	4.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.4944	1.4022	1.4887	1.4983	1.5676	1.5757	1.5743	1.5421	-----	1.52	5.89	1.00	1.00	3.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4081	1.3097	1.4081	1.4126	1.4730	1.4918	1.4853	1.4620	-----	1.43	6.01	1.00	1.00	4.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8360	0.6443	0.7633	0.8100	0.8805	0.8880	0.8942	0.8796	-----	0.825	5.98	1.00	1.00	10		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.3785	1.3396	1.4279	1.4146	1.4012	1.3788	1.3481	1.3034	-----	1.37	6.10	0.999	1.00	3.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.1557	0.9645	1.0900	1.1612	1.2187	1.2238	1.2235	1.2052	1.0647	1.15	6.07	1.00	1.00	7.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.5914	1.2677	1.5907	1.6188	1.6090	1.5065	1.3972	1.2961	-----	1.48	6.20	0.989	1.00	9.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5367	0.4814	0.5201	0.5347	0.5595	0.5608	0.5636	0.5560	-----	0.539	6.28	1.00	1.00	5.2	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8020	0.7018	0.8015	0.8181	0.8035	0.7592	0.7050	0.6849	0.8152	0.766	6.19	0.995	1.00	7.1	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2085	1.0409	1.1611	1.2118	1.2315	1.1680	1.0785	0.9961	1.0837	1.13	6.19	0.990	1.00	7.4		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1464	0.1098	0.1278	0.1447	0.1566	0.1597	0.1608	0.1589	-----	0.146	6.32	1.00	1.00	13		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3097	0.2722	0.2943	0.3132	0.3201	0.3224	0.3157	0.3083	-----	0.307	6.33	0.999	1.00	5.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.5836	0.4658	0.5412	0.5851	0.6075	0.6050	0.6027	0.5903	-----	0.573	6.52	1.00	1.00	8.4	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1809	0.1193	0.1482	0.1724	0.1945	0.1980	0.1995	0.1968	-----	0.176	6.58	1.00	1.00	16	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3130	0.2794	0.2954	0.3167	0.3255	0.3281	0.3234	0.3147	0.2792	0.308	6.61	0.999	1.00	6.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1739	-----	0.0629	0.1384	0.2225	0.2391	0.2483	0.2443	-----	0.190	6.67	0.998	0.998	37		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3703	0.3282	0.3568	0.3743	0.3911	0.3857	0.3832	0.3721	-----	0.370	6.67	0.999	1.00	5.4	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.2734	0.2248	0.2486	0.2703	0.2897	0.2952	0.2945	0.2872	0.2281	0.268	6.76	0.999	0.999	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3105	0.2861	0.3025	0.3100	0.3227	0.3232	0.3207	0.3156	-----	0.311	6.82	1.00	1.00	4.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0113	0.9603	0.9844	1.0206	1.0517	1.0459	1.0175	0.9750	1.1020	1.02	6.89	0.998	1.00	4.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3726	0.3081	0.4536	0.3703	0.3871	0.3879	0.3765	0.3602	0.3122	0.370	6.92	0.998	0.999	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1656	0.1437	0.1579	0.1661	0.1756	0.1770	0.1777	0.1731	-----	0.167	6.98	0.999	1.00	7.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.0977	0.0504	0.0760	0.0946	0.1050	0.1067	0.1166	0.1155	-----	0.0954	7.20	0.997	0.999	23	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.2587	0.2053	0.2367	0.2539	0.2770	0.2793	0.2779	0.2705	-----	0.257	7.28	0.999	0.999	10	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6656	0.5783	0.6306	0.6715	0.6905	0.6888	0.6690	0.6433	-----	0.655	7.42	0.998	1.00	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6489	0.5563	0.6173	0.6515	0.6622	0.6666	0.6510	0.6254	-----	0.635	7.50	0.998	1.00	5.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6562	0.5673	0.6216	0.6581	0.6805	0.6755	0.6582	0.6317	-----	0.644	7.42	0.998	1.00	5.7		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.7736	0.6896	0.7368	0.7768	0.8053	0.8005	0.7760	0.7476	-----	0.763	7.80	0.998	1.00	4.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5792	0.4712	0.5473	0.5840	0.6216	0.6123	0.6122	0.6004	-----	0.579	7.56	1.00	1.00	8.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Avg Rsd: 10.58

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101107 0075

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M92872.D	CAL BNA@50PPM	09/21/22 12:02	2	10M92864.D	CAL BNA@2PPM	09/21/22 08:56
3	10M92865.D	CAL BNA@10PPM	09/21/22 09:19	4	10M92871.D	CAL BNA@20PPM	09/21/22 11:39
5	10M92870.D	CAL BNA@80PPM	09/21/22 11:17	6	10M92869.D	CAL BNA@120PPM	09/21/22 10:55
7	10M92868.D	CAL BNA@160PPM	09/21/22 10:32	8	10M92867.D	CAL BNA@196PPM	09/21/22 10:10
9	10M92866.D	CAL BNA@0.5PPM	09/21/22 09:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.2713	0.1752	0.2286	0.2537	0.3038	0.3062	0.3177	0.3203	-----	0.272	7.55	0.997	0.999	19	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3970	0.3038	0.3510	0.4024	0.4321	0.4336	0.4459	0.4382	-----	0.401	7.64	0.999	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3888	0.3156	0.3652	0.4247	0.4638	0.4671	0.4647	0.4671	-----	0.420	7.68	0.999	0.999	14	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3832	1.1887	1.3161	1.3905	1.4773	1.4865	1.5071	1.5118	-----	1.41	7.71	0.999	1.00	8.0		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2443	1.1061	1.1766	1.2564	1.3150	1.2932	1.2937	1.2728	-----	1.24	7.82	1.00	1.00	5.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	1.0021	0.8791	0.9675	1.0117	1.0489	0.9997	0.9498	0.8985	-----	0.970	8.10	0.997	0.999	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	1.0021	0.8791	0.9675	1.0117	1.0489	0.9997	0.9498	0.8985	-----	0.970	8.10	0.997	0.999	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8279	0.6695	0.7865	0.8366	0.8827	0.8806	0.8894	0.8735	-----	0.831	7.88	1.00	1.00	8.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3602	0.2646	0.3207	0.3677	0.3838	0.3727	0.3707	0.3655	-----	0.351	7.89	0.999	1.00	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4869	0.4026	0.4612	0.4871	0.5229	0.5135	0.5018	0.4779	-----	0.482	8.08	0.998	0.999	7.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8835	1.5951	1.7484	1.8964	2.0052	1.9873	1.9729	1.9444	-----	1.88	8.18	1.00	1.00	7.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3234	1.1538	1.2614	1.3540	1.4226	1.4065	1.4241	1.4099	-----	1.34	8.04	1.00	1.00	7.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3178	0.2233	0.2895	0.3158	0.3365	0.3202	0.3038	0.2871	-----	0.299	8.10	0.994	0.999	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2388	1.1117	1.1749	1.2507	1.3176	1.2787	1.2571	1.2278	-----	1.23	8.33	0.999	1.00	5.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3485	0.2575	0.3118	0.3506	0.3796	0.3757	0.3804	0.3758	-----	0.348	8.25	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1424	-----	0.0621	0.1078	0.1748	0.1853	0.1937	0.1916	-----	0.151	8.34	0.999	0.999	33	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.7230	1.5783	1.6710	1.7462	1.8433	1.8261	1.8023	1.7865	1.8405	1.76	8.49	1.00	1.00	5.0	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4089	0.2401	0.3448	0.4014	0.4475	0.4475	0.4606	0.4623	-----	0.402	8.46	0.999	1.00	19	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2288	0.1318	0.1757	0.2162	0.2360	0.2434	0.2452	0.2464	-----	0.215	8.37	1.00	1.00	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3318	0.2076	0.2873	0.3210	0.3687	0.3709	0.3740	0.3781	-----	0.330	8.59	0.999	0.999	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4234	1.2038	1.3470	1.4469	1.5235	1.4875	1.4573	1.4137	-----	1.41	8.81	0.999	1.00	7.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6756	0.6153	0.6391	0.6855	0.7384	0.7309	0.7308	0.7195	-----	0.692	8.79	1.00	1.00	6.7	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.3173	1.0732	1.2183	1.3154	1.4123	1.3970	1.3994	1.3847	-----	1.31	8.67	1.00	1.00	8.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3896	0.2285	0.3221	0.3824	0.4203	0.4154	0.4203	0.4211	-----	0.375	8.81	1.00	1.00	18	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.3682	0.2069	0.3117	0.3588	0.4065	0.4084	0.4178	0.4168	-----	0.362	9.43	0.999	1.00	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1036	-----	0.0658	0.0885	0.1175	0.1239	0.1292	0.1302	-----	0.108	8.84	0.999	1.00	22	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6060	0.4803	0.5668	0.6095	0.6469	0.6327	0.6374	0.6315	-----	0.601	8.91	1.00	1.00	9.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.0880	0.0557	0.0740	0.0835	0.0989	0.1014	0.1048	0.1075	-----	0.0893	9.04	0.998	1.00	20		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6164	0.5043	0.5945	0.6309	0.6536	0.6243	0.6760	0.6657	-----	0.621	8.95	0.999	0.999	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1961	0.1566	0.1828	0.1950	0.2138	0.2149	0.2189	0.2199	-----	0.200	9.28	1.00	1.00	11	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2135	0.1884	0.2014	0.2124	0.2317	0.2308	0.2377	0.2397	-----	0.219	9.35	0.997	1.00	8.4	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.2764	0.1952	0.2550	0.2766	0.2915	0.2791	0.2710	0.2605	-----	0.263	9.62	0.997	1.00	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1211	-----	0.0815	0.1060	0.1398	0.1451	0.1505	0.1542	-----	0.128	9.55	0.999	1.00	21	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.0321	0.9466	0.9906	1.0419	1.0932	1.0764	1.0641	1.0477	-----	1.04	9.79	1.00	1.00	4.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.0519	0.8488	0.9795	1.0582	1.1256	1.0986	1.0954	1.0743	-----	1.04	9.84	0.999	1.00	8.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9674	0.7541	0.8767	0.9695	1.0378	1.0213	1.0191	1.0080	-----	0.957	10.01	1.00	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.1062	0.6891	0.9294	1.0805	1.1887	1.1685	1.1553	1.1281	0.7303	1.02	10.39	0.999	1.00	19	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.0913	0.8552	0.9849	1.0811	1.1851	1.1586	1.1504	1.1413	-----	1.08	11.11	1.00	1.00	10	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2571	1.0088	1.1615	1.2609	1.3499	1.3107	1.3181	1.2910	-----	1.24	11.38	0.999	1.00	8.9	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.6186	0.2780	0.4028	0.5533	0.6835	0.6681	0.6752	0.6633	-----	0.568	11.26	0.998	0.998	26		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6959	0.5609	0.6272	0.6885	0.7653	0.7476	0.7753	0.7923	-----	0.707	11.56	0.998	1.00	11		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 10.58
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M92872.D	CAL BNA@50PPM	09/21/22 12:02	2	10M92864.D	CAL BNA@2PPM	09/21/22 08:56
3	10M92865.D	CAL BNA@10PPM	09/21/22 09:19	4	10M92871.D	CAL BNA@20PPM	09/21/22 11:39
5	10M92870.D	CAL BNA@80PPM	09/21/22 11:17	6	10M92869.D	CAL BNA@120PPM	09/21/22 10:55
7	10M92868.D	CAL BNA@160PPM	09/21/22 10:32	8	10M92867.D	CAL BNA@196PPM	09/21/22 10:10
9	10M92866.D	CAL BNA@0.5PPM	09/21/22 09:44				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2371	0.1824	0.2168	0.2362	0.2630	0.2634	0.2718	0.2738	-----	0.243	11.49	0.999	1.00	13		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4230	0.2734	0.3620	0.4135	0.4646	0.4565	0.4685	0.4583	-----	0.415	11.89	0.999	0.999	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.5205	0.2677	0.4240	0.5056	0.5837	0.5713	0.5824	0.5722	-----	0.503	12.14	0.999	0.999	22	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3495	0.1993	0.2945	0.3303	0.3794	0.3709	0.3740	0.3637	-----	0.333	12.25	0.999	1.00	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.4231	0.2551	0.3347	0.4045	0.4785	0.4777	0.4954	0.4770	-----	0.418	12.76	0.999	0.999	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.2154	1.0171	1.1132	1.2030	1.2759	1.2717	1.2587	1.2730	-----	1.20	12.79	1.00	1.00	7.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1233	1.0160	1.1057	1.1675	1.1997	1.1358	1.1686	1.1158	-----	1.13	12.84	0.999	0.999	4.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.7474	0.3715	0.6066	0.7297	0.8082	0.7675	0.7724	0.7394	-----	0.693	12.83	0.999	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.1683	0.4445	0.8313	1.0564	1.2998	1.2797	1.2968	1.2501	-----	1.08	13.58	0.999	0.999	28	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1297	0.8245	0.9955	1.0647	1.1687	1.1865	1.2587	1.1690	-----	1.10	14.00	0.998	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.0936	0.8704	1.0284	1.1240	1.2236	1.1560	1.1297	1.1936	-----	1.10	14.03	0.998	0.998	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0624	0.7604	0.9309	1.0369	1.1440	1.1427	1.1749	1.1588	-----	1.05	14.36	1.00	1.00	14	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1412	0.8078	0.9977	1.1007	1.2602	1.2465	1.2900	1.2875	-----	1.14	15.75	0.999	0.999	15	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0075	0.6969	0.8613	0.9684	1.1098	1.1050	1.1413	1.1295	-----	1.00	15.77	0.999	1.00	16	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	0.9907	0.7636	0.9054	0.9642	1.0774	1.0689	1.1054	1.1100	-----	0.998	16.13	0.999	1.00	12	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags	*Note:* Avg Rsd: 10.58
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101107 0077

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M124024.D	CAL BNA@50PPM	09/21/22 12:13	2	7M124017.D	CAL BNA@2PPM	09/21/22 09:22
3	7M124016.D	CAL BNA@10PPM	09/21/22 08:57	4	7M124022.D	CAL BNA@20PPM	09/21/22 11:25
5	7M124021.D	CAL BNA@80PPM	09/21/22 11:01	6	7M124020.D	CAL BNA@120PPM	09/21/22 10:37
7	7M124019.D	CAL BNA@160PPM	09/21/22 10:10	8	7M124018.D	CAL BNA@196PPM	09/21/22 09:46
9	7M124023.D	CAL BNA@0.5PPM	09/21/22 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	0.9160	0.9436	0.9144	0.9237	0.9198	0.9302	0.9415	0.9388	1.0932	0.947	2.60	1.00	1.00	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	1.6983	1.3545	1.3955	1.6436	1.7816	1.8643	1.9010	1.7989	-----	1.68	3.06	0.998	0.998	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.4260	1.3194	1.3419	1.4589	1.4894	1.5054	1.5472	1.4953	-----	1.45	3.00	0.999	0.999	5.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.1947	2.1422	2.0158	2.2543	2.2820	2.3298	2.3400	2.1879	-----	2.22	4.60	0.998	0.998	4.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Avg	1.7062	1.4442	1.6915	1.7905	1.7436	1.7494	1.7455	1.6127	-----	1.69	5.41	0.998	0.999	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Avg	3.2688	3.1100	3.0428	3.4932	3.3264	3.3501	3.3660	3.0183	3.1907	3.24	5.50	0.995	0.997	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.7898	0.8568	0.7905	0.8403	0.7900	0.7939	0.7818	0.7096	-----	0.794	5.54	0.994	0.998	5.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.2524	2.4071	2.3070	2.4590	2.1814	2.1389	2.0660	1.9128	2.7047	2.27	5.56	0.995	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.6433	2.5037	2.4675	2.7906	2.6766	2.6958	2.6534	2.4113	-----	2.61	5.46	0.994	0.998	5.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.1715	3.3674	3.0938	3.4080	3.1776	3.1496	3.0708	2.7807	-----	3.15	5.47	0.993	0.998	6.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.3937	2.4215	2.3094	2.5871	2.4281	2.4337	2.4041	2.1576	-----	2.39	5.60	0.997	0.999	5.1	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	1.6769	1.9438	1.7438	1.8439	1.6303	1.5852	1.5192	1.3740	-----	1.66	5.65	0.991	0.999	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	2.6222	2.9031	2.6535	2.9474	2.6325	2.5914	2.5458	2.2488	-----	2.64	5.73	0.990	0.997	8.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.5112	1.7340	1.4926	1.5126	1.4717	1.4546	1.4193	1.3660	-----	1.50	5.79	0.998	1.00	7.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.4565	1.6650	1.4263	1.4443	1.4173	1.3770	1.3503	1.2994	-----	1.43	5.91	0.998	1.00	7.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9064	0.8912	0.8389	0.8823	0.9069	0.9062	0.8915	0.8827	-----	0.888	5.89	1.00	1.00	2.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.0518	1.1758	1.1083	1.0384	1.0303	1.0023	0.9806	0.9735	-----	1.05	6.00	0.999	1.00	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.2430	1.1520	1.1909	1.2030	1.2173	1.1964	1.1817	1.1683	1.1475	1.19	5.97	1.00	1.00	2.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.6226	1.7555	1.6791	1.6887	1.5474	1.4758	1.4031	1.3598	-----	1.57	6.10	0.996	1.00	9.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5440	0.5799	0.5403	0.5407	0.5385	0.5362	0.5353	0.5314	-----	0.543	6.19	1.00	1.00	2.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8379	0.9523	0.8676	0.8674	0.7830	0.7520	0.7370	0.7253	0.8775	0.822	6.10	0.999	1.00	9.4	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.2294	1.2238	1.2330	1.2498	1.1845	1.1066	1.0465	0.9938	1.0412	1.15	6.09	0.994	1.00	8.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1597	0.1310	0.1447	0.1534	0.1697	0.1683	0.1669	0.1654	-----	0.157	6.22	1.00	1.00	8.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3379	0.3508	0.3363	0.3348	0.3479	0.3333	0.3250	0.3248	-----	0.336	6.24	0.999	1.00	2.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6505	0.6860	0.6363	0.6500	0.6531	0.6493	0.6318	0.6383	-----	0.649	6.42	1.00	1.00	2.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1857	0.1336	0.1538	0.1749	0.1978	0.1966	0.1957	0.1892	-----	0.178	6.48	0.999	0.999	13	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3584	0.3534	0.3505	0.3576	0.3550	0.3481	0.3386	0.3362	0.3209	0.347	6.51	0.999	1.00	3.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2542	-----	0.1183	0.2026	0.2840	0.2921	0.3006	0.2980	-----	0.250	6.57	1.00	1.00	27		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.3869	0.4352	0.3951	0.3906	0.3820	0.3710	0.3605	0.3513	-----	0.384	6.58	0.999	1.00	6.7	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.3018	0.2755	0.2835	0.3054	0.3098	0.3023	0.2990	0.2905	0.2554	0.292	6.66	0.999	1.00	6.0	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3261	0.3486	0.3270	0.3359	0.3357	0.3253	0.3196	0.3073	-----	0.328	6.74	0.998	1.00	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.0611	1.1878	1.0704	1.0819	1.0437	1.0009	0.9701	0.9348	1.2808	1.07	6.79	0.998	1.00	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Avg	0.3935	0.3875	0.3708	0.3898	0.3938	0.3753	0.3626	0.3490	0.3721	0.377	6.83	0.998	1.00	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.1872	0.2004	0.1782	0.1868	0.1921	0.1870	0.1854	0.1808	-----	0.187	6.88	0.999	1.00	3.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1164	0.0716	0.0964	0.1107	0.1184	0.1188	0.1283	0.1278	-----	0.111	7.10	0.998	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3054	0.2695	0.2862	0.2985	0.3126	0.3088	0.3045	0.3039	-----	0.299	7.19	1.00	1.00	4.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.6940	0.7467	0.6856	0.7051	0.7000	0.6710	0.6483	0.6228	-----	0.684	7.33	0.997	1.00	5.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.6685	0.7369	0.6661	0.6850	0.6660	0.6460	0.6239	0.5994	-----	0.662	7.41	0.998	1.00	6.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (T	1	0	Avg	0.6823	0.7417	0.6758	0.6952	0.6828	0.6584	0.6361	0.6109	-----	0.673	7.33	0.997	1.00	5.8		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8401	0.9173	0.8298	0.8571	0.8360	0.8049	0.7747	0.7566	-----	0.827	7.70	0.998	1.00	6.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5617	0.5883	0.5748	0.5848	0.5801	0.5497	0.5505	0.5202	-----	0.564	7.46	0.998	0.999	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.298

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M124024.D	CAL BNA@50PPM	09/21/22 12:13	2	7M124017.D	CAL BNA@2PPM	09/21/22 09:22
3	7M124016.D	CAL BNA@10PPM	09/21/22 08:57	4	7M124022.D	CAL BNA@20PPM	09/21/22 11:25
5	7M124021.D	CAL BNA@80PPM	09/21/22 11:01	6	7M124020.D	CAL BNA@120PPM	09/21/22 10:37
7	7M124019.D	CAL BNA@160PPM	09/21/22 10:10	8	7M124018.D	CAL BNA@196PPM	09/21/22 09:46
9	7M124023.D	CAL BNA@0.5PPM	09/21/22 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.2948	0.2704	0.2770	0.2864	0.3272	0.3222	0.3332	0.3220	-----	0.304	7.45	0.999	0.999	8.2	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4230	0.3567	0.3619	0.4135	0.4414	0.4334	0.4388	0.4219	-----	0.411	7.55	0.999	1.00	8.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4229	0.3528	0.3893	0.4443	0.4707	0.4552	0.4674	0.4542	-----	0.432	7.58	0.999	0.999	9.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.4274	1.5763	1.4357	1.4488	1.4890	1.4254	1.4536	1.4246	-----	1.46	7.62	1.00	1.00	3.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.1986	1.3827	1.2144	1.2226	1.2152	1.1517	1.1558	1.1076	-----	1.21	7.72	0.998	1.00	6.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.9343	1.0833	0.9914	1.0043	0.9215	0.8542	0.8295	0.7656	-----	0.923	8.01	0.993	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.9343	1.0833	0.9914	1.0043	0.9215	0.8542	0.8295	0.7656	-----	0.923	8.01	0.994	1.00	11		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8242	0.8454	0.8303	0.8536	0.8437	0.8125	0.8133	0.7785	-----	0.825	7.79	0.999	1.00	2.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.3447	0.2663	0.3143	0.3473	0.3556	0.3403	0.3482	0.3350	-----	0.332	7.80	0.999	0.999	8.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4857	0.5257	0.4730	0.4911	0.4810	0.4596	0.4499	0.4188	-----	0.473	7.99	0.995	1.00	6.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.9034	2.0711	1.8952	1.9488	1.9166	1.8141	1.8034	1.7160	-----	1.88	8.09	0.998	1.00	5.7	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3998	1.5276	1.3743	1.4388	1.4432	1.3841	1.4065	1.3488	-----	1.42	7.95	0.999	1.00	3.9	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3148	0.2655	0.2963	0.3300	0.3156	0.2952	0.2844	0.2671	-----	0.296	8.00	0.994	1.00	7.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1998	1.3806	1.2199	1.2439	1.2171	1.1674	1.1572	1.0963	-----	1.21	8.24	0.998	1.00	6.8	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Avg	0.3481	0.2648	0.3173	0.3542	0.3644	0.3497	0.3554	0.3459	-----	0.338	8.15	0.999	1.00	9.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1414	-----	0.0881	0.1140	0.1766	0.1770	0.1893	0.1856	-----	0.153	8.25	0.998	0.998	26	0.20 a	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8101	2.1064	1.8056	1.8565	1.8470	1.7459	1.7526	1.6591	2.0407	1.85	8.39	0.998	1.00	7.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4323	0.2968	0.3463	0.4147	0.4613	0.4537	0.4614	0.4541	-----	0.415	8.36	1.00	1.00	15	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Avg	0.2275	0.1425	0.2022	0.2193	0.2463	0.2417	0.2482	0.2428	-----	0.221	8.27	0.999	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3668	0.3032	0.3224	0.3731	0.4013	0.3943	0.4048	0.3900	-----	0.370	8.50	0.999	0.999	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3973	1.5690	1.4286	1.4769	1.4292	1.3305	1.3224	1.2575	-----	1.40	8.72	0.997	1.00	7.0	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7103	0.7941	0.6920	0.7346	0.7371	0.7102	0.7146	0.6793	-----	0.722	8.71	0.998	0.999	4.9	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4150	1.4383	1.3340	1.4097	1.4431	1.3970	1.4070	1.3747	-----	1.40	8.59	1.00	1.00	2.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3685	0.2979	0.3313	0.3709	0.3819	0.3731	0.3840	0.3797	-----	0.361	8.72	1.00	1.00	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Avg	0.4102	0.3029	0.3490	0.3952	0.4347	0.4176	0.4273	0.4200	-----	0.395	9.36	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.0995	-----	0.0668	0.0862	0.1142	0.1161	0.1204	0.1199	-----	0.103	8.74	0.999	0.999	20	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.5799	0.6176	0.5876	0.5997	0.5932	0.5647	0.5570	0.5445	-----	0.581	8.82	0.999	1.00	4.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.0957	0.0606	0.0740	0.0881	0.1020	0.1022	0.1037	0.1034	-----	0.0913	8.95	1.00	1.00	18		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.6401	0.6547	0.6248	0.6033	0.6422	0.6198	0.6007	0.5953	-----	0.623	8.86	0.999	1.00	3.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.1979	0.1940	0.1851	0.1980	0.2093	0.2071	0.2066	0.2026	-----	0.200	9.20	1.00	1.00	4.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2153	0.2216	0.2045	0.2151	0.2261	0.2243	0.2255	0.2219	-----	0.219	9.26	0.999	0.999	3.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.2171	0.2102	0.2226	0.2209	0.2182	0.2102	0.2053	0.2040	-----	0.214	9.54	0.999	1.00	3.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Avg	0.1429	-----	0.1067	0.1306	0.1596	0.1603	0.1634	0.1606	-----	0.146	9.46	0.999	0.999	14	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	0.9621	1.1203	0.9960	1.0030	0.9771	0.9510	0.9208	0.8879	-----	0.977	9.70	0.999	1.00	7.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	0.9827	1.0345	0.9807	1.0150	0.9986	0.9523	0.9350	0.9044	-----	0.975	9.76	0.998	1.00	4.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	0.9462	0.9873	0.9443	0.9727	0.9726	0.9263	0.9164	0.8992	-----	0.946	9.93	0.999	1.00	3.2	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.1248	0.9565	1.0319	1.1000	1.1376	1.1188	1.0917	1.0737	0.7975	1.05	10.32	0.999	1.00	10	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.1139	1.0641	1.0531	1.1280	1.1423	1.1042	1.0812	1.0506	-----	1.09	11.04	0.999	1.00	3.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2891	1.3190	1.2496	1.3031	1.3497	1.2937	1.2811	1.2588	-----	1.29	11.30	0.999	1.00	2.5	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.6105	0.3370	0.4586	0.5584	0.6848	0.6830	0.6642	0.6603	-----	0.582	11.19	0.999	0.999	22		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.7528	0.7093	0.6828	0.7356	0.8019	0.8018	0.8072	0.8246	-----	0.765	11.49	1.00	1.00	6.8		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.298
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2101107 0079

Method: EPA 8270E

Form 6
Initial Calibration

Instrument: GCMS_7

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	7M124024.D	CAL BNA@50PPM	09/21/22 12:13	2	7M124017.D	CAL BNA@2PPM	09/21/22 09:22
3	7M124016.D	CAL BNA@10PPM	09/21/22 08:57	4	7M124022.D	CAL BNA@20PPM	09/21/22 11:25
5	7M124021.D	CAL BNA@80PPM	09/21/22 11:01	6	7M124020.D	CAL BNA@120PPM	09/21/22 10:37
7	7M124019.D	CAL BNA@160PPM	09/21/22 10:10	8	7M124018.D	CAL BNA@196PPM	09/21/22 09:46
9	7M124023.D	CAL BNA@0.5PPM	09/21/22 11:49				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2462	0.2531	0.2353	0.2466	0.2674	0.2709	0.2761	0.2760	-----	0.259	11.43	0.999	1.00	6.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.4534	0.3996	0.3987	0.4463	0.4920	0.4833	0.4787	0.4798	-----	0.454	11.83	0.999	0.999	8.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5534	0.4144	0.4676	0.5365	0.5863	0.5881	0.5860	0.5833	-----	0.539	12.09	1.00	1.00	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3582	0.2520	0.2961	0.3400	0.3827	0.3788	0.3801	0.3707	-----	0.345	12.19	0.999	1.00	14		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Avg	0.4687	0.3327	0.3605	0.4492	0.5041	0.5058	0.4974	0.4833	-----	0.450	12.71	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1935	1.2550	1.1330	1.2103	1.2603	1.2423	1.2366	1.2202	-----	1.22	12.73	1.00	1.00	3.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.1034	1.1734	1.0942	1.1333	1.1466	1.0973	1.0903	1.0556	-----	1.11	12.78	0.999	1.00	3.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7402	0.5916	0.6754	0.7314	0.7653	0.7408	0.7263	0.7004	-----	0.709	12.79	0.998	1.00	7.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.2452	0.8428	1.0363	1.1761	1.2884	1.2825	1.2777	1.2398	-----	1.17	13.55	0.999	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.1100	1.0829	1.0388	1.1282	1.1744	1.1651	1.1708	1.1465	-----	1.13	13.95	1.00	1.00	4.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1358	1.1192	1.0548	1.1262	1.1013	1.1033	1.0603	1.0534	-----	1.09	13.98	0.999	1.00	3.1	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.0861	1.0039	0.9748	1.0726	1.1280	1.1260	1.1207	1.1079	-----	1.08	14.31	1.00	1.00	5.4	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.1559	1.0335	1.0264	1.1179	1.2162	1.2218	1.2328	1.2265	-----	1.15	15.71	0.999	1.00	7.5	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.0233	0.9630	0.9204	0.9912	1.0595	1.0543	1.0533	1.0481	-----	1.01	15.74	1.00	1.00	5.1	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0068	0.9746	0.9167	0.9749	1.0558	1.0610	1.0728	1.0613	-----	1.02	16.10	1.00	1.00	5.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.298
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124534.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/18/2022 8:36:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.60	50.34	50	**		0.947	0.953	0.69	
Pyridine	1	0		3.07	46.98	50	**		1.680	1.578	6.04	
N-Nitrosodimethylamine	1	0		3.00	56.33	50	**		1.448	1.631	12.66	
2-Fluorophenol	1	0	S	4.60	53.61	50	**		2.218	2.379	7.22	
Benzaldehyde	1	0		5.41	55.07	50	20	0.01	1.685	1.856	10.14	
Aniline	1	0		5.50	55.97	50	**		3.241	3.627	11.93	
Pentachloroethane	1	0		5.54	51.66	50	**	0.05	0.794	0.820	3.32	
bis(2-Chloroethyl)ether	1	0		5.55	53.60	50	20	0.7	2.270	2.433	7.20	
Phenol-d5	1	0	S	5.47	56.63	50	**		2.605	2.951	13.27	
Phenol	1	0		5.48	55.93	50	20	0.8	3.152	3.526	11.86	
2-Chlorophenol	1	0		5.60	53.44	50	20	0.8	2.392	2.556	6.87	
N-Decane	1	0		5.64	57.15	50	**	0.05	1.665	1.903	14.29	
1,3-Dichlorobenzene	1	0		5.72	51.28	50	**		2.643	2.711	2.56	
1,4-Dichlorobenzene-d4	1	0	I	5.78	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.79	50.98	50	20		1.495	1.525	1.97	
1,2-Dichlorobenzene	1	0		5.91	50.89	50	**		1.430	1.455	1.77	
Benzyl alcohol	1	0		5.89	54.56	50	**		0.888	0.969	9.11	
bis(2-chloroisopropyl)ether	1	0		5.99	62.02	50	20	0.01	1.045	1.296	24.04	C1
2-Methylphenol	1	0		5.98	55.38	50	20	0.7	1.189	1.317	10.76	
Acetophenone	1	0		6.10	55.85	50	20	0.01	1.567	1.750	11.70	
Hexachloroethane	1	0		6.18	51.46	50	20	0.3	0.543	0.559	2.92	
N-Nitroso-di-n-propylamine	1	0		6.10	56.78	50	20	0.5	0.822	0.934	13.56	
3&4-Methylphenol	1	0		6.10	57.90	50	20		1.145	1.326	15.80	
Naphthalene-d8	1	0	I	6.78	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.22	27.33	25	**		0.157	0.172	9.30	
Nitrobenzene	1	0		6.24	53.41	50	20	0.2	0.336	0.359	6.82	
Isophorone	1	0		6.42	54.72	50	20	0.4	0.649	0.711	9.43	
2-Nitrophenol	1	0		6.48	58.16	50	20	0.1	0.178	0.208	16.33	
2,4-Dimethylphenol	1	0		6.51	51.15	50	20	0.2	0.347	0.355	2.30	
Benzoic Acid	1	0		6.57	36.63	50	**		0.250	0.181	26.73	
bis(2-Chloroethoxy)methane	1	0		6.58	54.96	50	20	0.3	0.384	0.422	9.91	
2,4-Dichlorophenol	1	0		6.66	53.04	50	20	0.2	0.292	0.309	6.09	
1,2,4-Trichlorobenzene	1	0		6.73	50.13	50	**		0.328	0.329	0.27	
Naphthalene	1	0		6.79	50.18	50	20	0.7	1.070	1.074	0.35	
4-Chloroaniline	1	0		6.82	55.27	50	20	0.01	0.377	0.417	10.54	
Hexachlorobutadiene	1	0		6.88	47.73	50	20	0.01	0.187	0.179	4.55	
Caprolactam	1	0		7.11	53.76	50	20	0.01	0.111	0.119	7.51	
4-Chloro-3-methylphenol	1	0		7.19	53.31	50	20	0.2	0.299	0.318	6.61	
2-Methylnaphthalene	1	0		7.32	52.78	50	**	0.4	0.684	0.722	5.57	
1-Methylnaphthalene	1	0		7.41	52.46	50	**	0.4	0.662	0.694	4.92	
Methylnaphthalenes	1	0		7.41	105.40	50	**			1.418	110.79	
1,1'-Biphenyl	1	0		7.70	51.56	50	20	0.01	0.827	0.853	3.12	
Acenaphthene-d10	1	0	I	8.20	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.46	52.32	50	20	0.01	0.564	0.590	4.65	
Hexachlorocyclopentadiene	1	0		7.45	34.45	50	20	0.05	0.304	0.210	31.11	C1
2,4,6-Trichlorophenol	1	0		7.55	52.81	50	20	0.2	0.411	0.434	5.61	
2,4,5-Trichlorophenol	1	0		7.58	50.32	50	20	0.2	0.432	0.435	0.64	
2-Fluorobiphenyl	1	0	S	7.61	25.18	25	**		1.460	1.470	0.71	
2-Chloronaphthalene	1	0		7.72	51.20	50	20	0.8	1.206	1.235	2.39	
1,4-Dimethylnaphthalene	1	0		8.00	52.98	50	**		0.923	0.978	5.96	
Dimethylnaphthalenes	1	0		8.00	52.98	50	20			0.978	5.96	

S-Surrogate Compound
N/O or N/Q - Not applicable for this run

I-Internal Standard Compound
C1-Compound %Diff exceeds limits

** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124534.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/18/2022 8:36:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.78	52.68	50	**		0.825	0.869	5.36	
2-Nitroaniline	1	0		7.80	59.81	50	20	0.01	0.332	0.397	19.62	
Coumarin	1	0		7.99	53.76		**		0.473			
Acenaphthylene	1	0		8.08	51.34	50	20	0.9	1.884	1.934	2.68	
Dimethylphthalate	1	0		7.95	51.07	50	20	0.01	1.415	1.446	2.15	
2,6-Dinitrotoluene	1	0		8.00	56.48	50	20	0.2	0.296	0.335	12.96	
Acenaphthene	1	0		8.23	52.38	50	20	0.9	1.210	1.268	4.76	
3-Nitroaniline	1	0		8.16	58.02	50	20	0.01	0.338	0.392	16.04	
2,4-Dinitrophenol	1	0		8.25	57.05	50	20	0.2	0.153	0.188	14.10	
Dibenzofuran	1	0		8.39	50.34	50	20	0.8	1.847	1.860	0.69	
2,4-Dinitrotoluene	1	0		8.36	55.17	50	20	0.2	0.415	0.458	10.35	
4-Nitrophenol	1	0		8.29	53.84	50	20	0.01	0.221	0.238	7.68	
2,3,4,6-Tetrachlorophenol	1	0		8.50	50.81	50	20	0.01	0.370	0.376	1.63	
Fluorene	1	0		8.72	53.10	50	20	0.9	1.401	1.488	6.19	
4-Chlorophenyl-phenylether	1	0		8.70	52.07	50	20	0.4	0.722	0.751	4.13	
Diethylphthalate	1	0		8.58	51.33	50	20	0.01	1.402	1.440	2.67	
4-Nitroaniline	1	0		8.72	55.95	50	20	0.01	0.361	0.404	11.90	
Atrazine	1	0		9.36	52.48	50	20	0.01	0.395	0.414	4.96	
Phenanthrene-d10	1	0	I	9.67	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.75	55.21	50	20	0.01	0.103	0.121	10.43	
n-Nitrosodiphenylamine	1	0		8.82	52.77	50	20	0.01	0.581	0.613	5.53	
2,4,6-Tribromophenol	1	0	S	8.95	56.27	50	**		0.091	0.103	12.54	
1,2-Diphenylhydrazine	1	0		8.86	57.20	50	**		0.623	0.712	14.40	
4-Bromophenyl-phenylether	1	0		9.20	52.28	50	20	0.1	0.200	0.209	4.57	
Hexachlorobenzene	1	0		9.26	51.24	50	20	0.1	0.219	0.225	2.49	
N-Octadecane	1	0		9.54	62.14	50	**	0.05	0.214	0.265	24.29	
Pentachlorophenol	1	0		9.47	46.37	50	20	0.05	0.146	0.136	7.26	
Phenanthrene	1	0		9.70	50.75	50	20	0.7	0.977	0.992	1.49	
Anthracene	1	0		9.76	52.67	50	20	0.7	0.975	1.028	5.34	
Carbazole	1	0		9.93	52.48	50	20	0.01	0.946	0.992	4.95	
Di-n-butylphthalate	1	0		10.31	57.42	50	20	0.01	1.048	1.204	14.85	
Fluoranthene	1	0		11.04	53.57	50	20	0.6	1.092	1.170	7.14	
Chrysene-d12	1	0	I	12.75	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.31	53.75	50	20	0.6	1.293	1.390	7.51	
Benzidine	1	0		11.20	43.78	50	**		0.582	0.584	12.44	
Terphenyl-d14	1	0	S	11.49	26.42	25	**		0.765	0.808	5.70	
4,4'-DDE	1	0		11.43	50.61		**		0.259			
4,4'-DDD	1	0		11.83	54.34		**		0.454			
Butylbenzylphthalate	1	0		12.09	56.59	50	20	0.01	0.539	0.611	13.17	
4,4'-DDT	1	0		12.19	55.85		**		0.345			
3,3'-Dichlorobenzidine	1	0		12.72	59.36	50	20	0.01	0.450	0.535	18.72	
Benzo[a]anthracene	1	0		12.74	52.07	50	20	0.8	1.219	1.269	4.14	
Chrysene	1	0		12.78	51.48	50	20	0.7	1.112	1.145	2.96	
bis(2-Ethylhexyl)phthalate	1	0		12.79	54.67	50	20	0.01	0.709	0.775	9.35	
Perylene-d12	1	0	I	14.39	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.55	58.34	50	20	0.01	1.174	1.369	16.68	
Benzo[b]fluoranthene	1	0		13.97	53.44	50	20	0.7	1.127	1.205	6.87	
Benzo[k]fluoranthene	1	0		14.00	51.64	50	20	0.7	1.094	1.130	3.28	
Benzo[a]pyrene	1	0		14.33	52.10	50	20	0.7	1.078	1.123	4.19	
Indeno[1,2,3-cd]pyrene	1	0		15.75	50.68	50	20	0.5	1.154	1.170	1.35	
Dibenzo[a,h]anthracene	1	0		15.77	50.38	50	20	0.4	1.014	1.022	0.77	
Benzo[g,h,i]perylene	1	0		16.14	50.18	50	20	0.5	1.016	1.019	0.35	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124534.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/18/2022 8:36:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.673	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.923	0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M93344.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/18/2022 8:49:00 Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.68	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.72	47.22	50	**		0.990	0.935	5.56	
Pyridine	1	0		3.20	41.99	50	**		1.700	1.563	16.01	
N-Nitrosodimethylamine	1	0		3.13	55.41	50	**		1.433	1.588	10.82	
2-Fluorophenol	1	0	S	4.68	55.62	50	**		2.212	2.461	11.24	
Benzaldehyde	1	0		5.49	56.39	50	20	0.01	1.662	1.874	12.79	
Aniline	1	0		5.58	57.78	50	**		3.314	3.829	15.55	
Pentachloroethane	1	0		5.63	55.38	50	**	0.05	0.838	0.928	10.75	
bis(2-Chloroethyl)ether	1	0		5.64	55.83	50	20	0.7	2.390	2.669	11.67	
Phenol-d5	1	0	S	5.55	56.90	50	**		2.611	2.971	13.80	
Phenol	1	0		5.56	55.47	50	20	0.8	3.272	3.630	10.93	
2-Chlorophenol	1	0		5.69	57.23	50	20	0.8	2.535	2.901	14.46	
N-Decane	1	0		5.73	58.21	50	**	0.05	2.168	2.524	16.41	
1,3-Dichlorobenzene	1	0		5.81	55.94	50	**		2.831	3.168	11.88	
1,4-Dichlorobenzene-d4	1	0	I	5.86	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.88	50.91	50	20		1.518	1.546	1.82	
1,2-Dichlorobenzene	1	0		6.00	51.65	50	**		1.431	1.479	3.30	
Benzyl alcohol	1	0		5.97	52.67	50	**		0.825	0.869	5.34	
bis(2-chloroisopropyl)ether	1	0		6.09	53.89	50	20	0.01	1.374	1.481	7.79	
2-Methylphenol	1	0		6.07	53.26	50	20	0.7	1.145	1.220	6.51	
Acetophenone	1	0		6.19	55.50	50	20	0.01	1.485	1.648	10.99	
Hexachloroethane	1	0		6.27	52.13	50	20	0.3	0.539	0.562	4.26	
N-Nitroso-di-n-propylamine	1	0		6.19	58.10	50	20	0.5	0.766	0.890	16.19	
3&4-Methylphenol	1	0		6.19	54.97	50	20		1.131	1.244	9.94	
Naphthalene-d8	1	0	I	6.87	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.31	26.87	25	**		0.146	0.157	7.48	
Nitrobenzene	1	0		6.32	54.74	50	20	0.2	0.307	0.336	9.49	
Isophorone	1	0		6.51	54.98	50	20	0.4	0.573	0.630	9.97	
2-Nitrophenol	1	0		6.57	55.34	50	20	0.1	0.176	0.195	10.67	
2,4-Dimethylphenol	1	0		6.59	54.72	50	20	0.2	0.308	0.338	9.44	
Benzoic Acid	1	0		6.65	36.25	50	**		0.190	0.150	27.50	
bis(2-Chloroethoxy)methane	1	0		6.67	52.26	50	20	0.3	0.370	0.387	4.52	
2,4-Dichlorophenol	1	0		6.76	54.19	50	20	0.2	0.268	0.290	8.37	
1,2,4-Trichlorobenzene	1	0		6.82	52.29	50	**		0.311	0.326	4.57	
Naphthalene	1	0		6.88	52.66	50	20	0.7	1.019	1.073	5.31	
4-Chloroaniline	1	0		6.92	54.80	50	20	0.01	0.370	0.405	9.61	
Hexachlorobutadiene	1	0		6.97	57.30	50	20	0.01	0.167	0.192	14.61	
Caprolactam	1	0		7.19	49.92	50	20	0.01	0.095	0.101	0.15	
4-Chloro-3-methylphenol	1	0		7.28	56.04	50	20	0.2	0.257	0.289	12.09	
2-Methylnaphthalene	1	0		7.42	53.75	50	**	0.4	0.655	0.704	7.50	
1-Methylnaphthalene	1	0		7.49	53.36	50	**	0.4	0.635	0.678	6.71	
Methylnaphthalenes	1	0		7.42	107.29	50	**			1.381	114.57	
1,1'-Biphenyl	1	0		7.79	54.61	50	20	0.01	0.763	0.834	9.21	
Acenaphthene-d10	1	0	I	8.30	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.55	53.47	50	20	0.01	0.579	0.619	6.93	
Hexachlorocyclopentadiene	1	0		7.54	48.90	50	20	0.05	0.272	0.266	2.21	
2,4,6-Trichlorophenol	1	0		7.64	53.81	50	20	0.2	0.401	0.431	7.61	
2,4,5-Trichlorophenol	1	0		7.67	53.54	50	20	0.2	0.420	0.449	7.09	
2-Fluorobiphenyl	1	0	S	7.70	26.43	25	**		1.408	1.488	5.73	
2-Chloronaphthalene	1	0		7.81	52.04	50	20	0.8	1.245	1.296	4.08	
1,4-Dimethylnaphthalene	1	0		8.09	53.43	50	**		0.970	1.036	6.86	
Dimethylnaphthalenes	1	0		8.09	53.43	50	20			1.036	6.86	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M93344.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/18/2022 8:49:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.87	53.41	50	**		0.831	0.888	6.81	
2-Nitroaniline	1	0		7.89	57.65	50	20	0.01	0.351	0.404	15.30	
Coumarin	1	0		8.08	51.40		**		0.482			
Acenaphthylene	1	0		8.17	52.74	50	20	0.9	1.879	1.982	5.48	
Dimethylphthalate	1	0		8.03	53.93	50	20	0.01	1.344	1.450	7.87	
2,6-Dinitrotoluene	1	0		8.09	55.87	50	20	0.2	0.299	0.334	11.74	
Acenaphthene	1	0		8.32	52.63	50	20	0.9	1.232	1.297	5.25	
3-Nitroaniline	1	0		8.24	54.08	50	20	0.01	0.348	0.376	8.16	
2,4-Dinitrophenol	1	0		8.33	54.95	50	20	0.2	0.151	0.183	9.91	
Dibenzofuran	1	0		8.48	52.77	50	20	0.8	1.758	1.855	5.54	
2,4-Dinitrotoluene	1	0		8.45	52.90	50	20	0.2	0.402	0.457	5.80	
4-Nitrophenol	1	0		8.36	57.93	50	20	0.01	0.215	0.250	15.86	
2,3,4,6-Tetrachlorophenol	1	0		8.58	57.68	50	20	0.01	0.330	0.381	15.36	
Fluorene	1	0		8.80	52.67	50	20	0.9	1.413	1.488	5.34	
4-Chlorophenyl-phenylether	1	0		8.79	54.59	50	20	0.4	0.692	0.755	9.19	
Diethylphthalate	1	0		8.66	55.10	50	20	0.01	1.315	1.449	10.21	
4-Nitroaniline	1	0		8.80	53.24	50	20	0.01	0.375	0.399	6.49	
Atrazine	1	0		9.42	54.39	50	20	0.01	0.362	0.429	8.78	
Phenanthrene-d10	1	0	I	9.76	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.84	54.99	50	20	0.01	0.108	0.124	9.97	
n-Nitrosodiphenylamine	1	0		8.90	52.47	50	20	0.01	0.601	0.631	4.94	
2,4,6-Tribromophenol	1	0	S	9.03	58.36	50	**		0.089	0.110	16.71	
1,2-Diphenylhydrazine	1	0		8.94	51.76	50	**		0.621	0.643	3.51	
4-Bromophenyl-phenylether	1	0		9.27	55.82	50	20	0.1	0.200	0.223	11.64	
Hexachlorobenzene	1	0		9.35	56.51	50	20	0.1	0.219	0.248	13.01	
N-Octadecane	1	0		9.61	57.83	50	**	0.05	0.263	0.304	15.67	
Pentachlorophenol	1	0		9.54	54.06	50	20	0.05	0.128	0.143	8.11	
Phenanthrene	1	0		9.78	51.31	50	20	0.7	1.037	1.064	2.61	
Anthracene	1	0		9.84	52.59	50	20	0.7	1.042	1.096	5.18	
Carbazole	1	0		10.00	51.85	50	20	0.01	0.957	0.992	3.70	
Di-n-butylphthalate	1	0		10.38	49.07	50	20	0.01	1.020	1.154	1.86	
Fluoranthene	1	0		11.11	54.68	50	20	0.6	1.081	1.182	9.37	
Chrysene-d12	1	0	I	12.80	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.37	52.78	50	20	0.6	1.245	1.314	5.55	
Benzidine	1	0		11.26	44.33	50	**		0.568	0.547	11.35	
Terphenyl-d14	1	0	S	11.55	27.84	25	**		0.707	0.787	11.36	
4,4'-DDE	1	0		11.48	56.08		**		0.243			
4,4'-DDD	1	0		11.88	58.54		**		0.415			
Butylbenzylphthalate	1	0		12.14	48.34	50	20	0.01	0.503	0.544	3.31	
4,4'-DDT	1	0		12.24	57.23		**		0.333			
3,3'-Dichlorobenzidine	1	0		12.76	55.65	50	20	0.01	0.418	0.520	11.30	
Benzo[a]anthracene	1	0		12.79	52.21	50	20	0.8	1.204	1.257	4.42	
Chrysene	1	0		12.83	52.19	50	20	0.7	1.129	1.179	4.38	
bis(2-Ethylhexyl)phthalate	1	0		12.83	48.67	50	20	0.01	0.693	0.739	2.66	
Perylene-d12	1	0	I	14.41	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	46.58	50	20	0.01	1.078	1.183	6.83	
Benzo[b]fluoranthene	1	0		14.00	51.46	50	20	0.7	1.100	1.132	2.92	
Benzo[k]fluoranthene	1	0		14.02	54.48	50	20	0.7	1.102	1.201	8.96	
Benzo[a]pyrene	1	0		14.36	53.31	50	20	0.7	1.051	1.121	6.62	
Indeno[1,2,3-cd]pyrene	1	0		15.74	52.64	50	20	0.5	1.142	1.202	5.28	
Dibenzo[a,h]anthracene	1	0		15.76	52.76	50	20	0.4	1.003	1.058	5.53	
Benzo[g,h,i]perylene	1	0		16.13	52.41	50	20	0.5	0.998	1.046	4.81	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M93344.D **Instrument:** GCMS 10

Cont Calibration Date/Time 10/18/2022 8:49:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.644	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.970	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124549.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/18/2022 2:55:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.55	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.58	49.41	50	**		0.947	0.936	1.18	
Pyridine	1	0		3.05	47.01	50	**		1.680	1.579	5.99	
N-Nitrosodimethylamine	1	0		2.99	54.76	50	**		1.448	1.586	9.52	
2-Fluorophenol	1	0	S	4.59	53.41	50	**		2.218	2.370	6.82	
Benzaldehyde	1	0		5.40	52.91	50	20	0.01	1.685	1.784	5.83	
Aniline	1	0		5.50	54.83	50	**		3.241	3.554	9.67	
Pentachloroethane	1	0		5.54	51.55	50	**	0.05	0.794	0.819	3.11	
bis(2-Chloroethyl)ether	1	0		5.55	51.88	50	20	0.7	2.270	2.355	3.77	
Phenol-d5	1	0	S	5.46	55.18	50	**		2.605	2.875	10.35	
Phenol	1	0		5.47	54.24	50	20	0.8	3.152	3.420	8.48	
2-Chlorophenol	1	0		5.60	52.98	50	20	0.8	2.392	2.535	5.97	
N-Decane	1	0		5.64	55.88	50	**	0.05	1.665	1.860	11.76	
1,3-Dichlorobenzene	1	0		5.72	51.64	50	**		2.643	2.730	3.29	
1,4-Dichlorobenzene-d4	1	0	I	5.77	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.78	50.47	50	20		1.495	1.509	0.94	
1,2-Dichlorobenzene	1	0		5.91	51.09	50	**		1.430	1.461	2.19	
Benzyl alcohol	1	0		5.88	53.70	50	**		0.888	0.954	7.40	
bis(2-chloroisopropyl)ether	1	0		5.99	58.44	50	20	0.01	1.045	1.222	16.87	
2-Methylphenol	1	0		5.97	54.57	50	20	0.7	1.189	1.298	9.15	
Acetophenone	1	0		6.09	53.74	50	20	0.01	1.567	1.684	7.47	
Hexachloroethane	1	0		6.18	49.90	50	20	0.3	0.543	0.542	0.19	
N-Nitroso-di-n-propylamine	1	0		6.09	53.48	50	20	0.5	0.822	0.880	6.97	
3&4-Methylphenol	1	0		6.09	56.32	50	20		1.145	1.290	12.64	
Naphthalene-d8	1	0	I	6.77	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.22	28.14	25	**		0.157	0.177	12.57	
Nitrobenzene	1	0		6.23	53.07	50	20	0.2	0.336	0.357	6.14	
Isophorone	1	0		6.42	54.23	50	20	0.4	0.649	0.704	8.46	
2-Nitrophenol	1	0		6.48	60.22	50	20	0.1	0.178	0.215	20.43	
2,4-Dimethylphenol	1	0		6.51	51.49	50	20	0.2	0.347	0.357	2.98	
Benzoic Acid	1	0		6.57	36.83	50	**		0.250	0.182	26.35	
bis(2-Chloroethoxy)methane	1	0		6.58	54.47	50	20	0.3	0.384	0.418	8.93	
2,4-Dichlorophenol	1	0		6.66	53.70	50	20	0.2	0.292	0.313	7.40	
1,2,4-Trichlorobenzene	1	0		6.73	51.72	50	**		0.328	0.339	3.44	
Naphthalene	1	0		6.79	50.18	50	20	0.7	1.070	1.074	0.36	
4-Chloroaniline	1	0		6.82	55.89	50	20	0.01	0.377	0.422	11.77	
Hexachlorobutadiene	1	0		6.88	49.58	50	20	0.01	0.187	0.186	0.84	
Caprolactam	1	0		7.11	54.65	50	20	0.01	0.111	0.121	9.30	
4-Chloro-3-methylphenol	1	0		7.19	53.57	50	20	0.2	0.299	0.320	7.15	
2-Methylnaphthalene	1	0		7.32	53.49	50	**	0.4	0.684	0.732	6.98	
1-Methylnaphthalene	1	0		7.40	52.44	50	**	0.4	0.662	0.694	4.88	
Methylnaphthalenes	1	0		7.32	106.08	50	**			1.428	112.16	
1,1'-Biphenyl	1	0		7.70	50.77	50	20	0.01	0.827	0.840	1.55	
Acenaphthene-d10	1	0	I	8.20	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.45	52.36	50	20	0.01	0.564	0.590	4.73	
Hexachlorocyclopentadiene	1	0		7.45	31.13	50	20	0.05	0.304	0.189	37.74	C1
2,4,6-Trichlorophenol	1	0		7.55	53.65	50	20	0.2	0.411	0.441	7.29	
2,4,5-Trichlorophenol	1	0		7.58	53.28	50	20	0.2	0.432	0.460	6.56	
2-Fluorobiphenyl	1	0	S	7.61	25.50	25	**		1.460	1.489	1.99	
2-Chloronaphthalene	1	0		7.72	50.25	50	20	0.8	1.206	1.212	0.51	
1,4-Dimethylnaphthalene	1	0		8.00	52.34	50	**		0.923	0.966	4.68	
Dimethylnaphthalenes	1	0		8.00	52.34	50	20			0.966	4.68	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124549.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/18/2022 2:55:00 P Method: EPA 8270E

TxtCompd:	Co#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.78	51.68	50	**		0.825	0.853	3.35	
2-Nitroaniline	1	0		7.80	56.71	50	20	0.01	0.332	0.376	13.42	
Coumarin	1	0		7.99	51.90		**		0.473			
Acenaphthylene	1	0		8.08	51.29	50	20	0.9	1.884	1.932	2.57	
Dimethylphthalate	1	0		7.95	50.60	50	20	0.01	1.415	1.432	1.21	
2,6-Dinitrotoluene	1	0		8.00	55.94	50	20	0.2	0.296	0.331	11.88	
Acenaphthene	1	0		8.23	51.57	50	20	0.9	1.210	1.248	3.13	
3-Nitroaniline	1	0		8.15	55.96	50	20	0.01	0.338	0.378	11.92	
2,4-Dinitrophenol	1	0		8.25	58.52	50	20	0.2	0.153	0.193	17.04	
Dibenzofuran	1	0		8.39	48.93	50	20	0.8	1.847	1.808	2.13	
2,4-Dinitrotoluene	1	0		8.36	53.50	50	20	0.2	0.415	0.444	7.01	
4-Nitrophenol	1	0		8.29	51.43	50	20	0.01	0.221	0.228	2.86	
2,3,4,6-Tetrachlorophenol	1	0		8.49	50.58	50	20	0.01	0.370	0.374	1.15	
Fluorene	1	0		8.71	52.26	50	20	0.9	1.401	1.465	4.51	
4-Chlorophenyl-phenylether	1	0		8.70	52.18	50	20	0.4	0.722	0.753	4.36	
Diethylphthalate	1	0		8.58	50.22	50	20	0.01	1.402	1.409	0.44	
4-Nitroaniline	1	0		8.72	54.14	50	20	0.01	0.361	0.391	8.27	
Atrazine	1	0		9.35	53.04	50	20	0.01	0.395	0.419	6.09	
Phenanthrene-d10	1	0	I	9.67	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.75	53.80	50	20	0.01	0.103	0.117	7.60	
n-Nitrosodiphenylamine	1	0		8.82	50.21	50	20	0.01	0.581	0.583	0.42	
2,4,6-Tribromophenol	1	0	S	8.94	55.16	50	**		0.091	0.101	10.32	
1,2-Diphenylhydrazine	1	0		8.86	53.17	50	**		0.623	0.662	6.34	
4-Bromophenyl-phenylether	1	0		9.19	52.72	50	20	0.1	0.200	0.211	5.44	
Hexachlorobenzene	1	0		9.26	52.35	50	20	0.1	0.219	0.230	4.69	
N-Octadecane	1	0		9.53	58.59	50	**	0.05	0.214	0.250	17.18	
Pentachlorophenol	1	0		9.46	47.01	50	20	0.05	0.146	0.138	5.98	
Phenanthrene	1	0		9.70	50.66	50	20	0.7	0.977	0.990	1.33	
Anthracene	1	0		9.76	52.04	50	20	0.7	0.975	1.015	4.07	
Carbazole	1	0		9.93	51.98	50	20	0.01	0.946	0.983	3.96	
Di-n-butylphthalate	1	0		10.31	55.95	50	20	0.01	1.048	1.173	11.90	
Fluoranthene	1	0		11.04	52.57	50	20	0.6	1.092	1.148	5.14	
Chrysene-d12	1	0	I	12.75	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.31	53.98	50	20	0.6	1.293	1.396	7.97	
Benzidine	1	0		11.19	42.74	50	**		0.582	0.570	14.52	
Terphenyl-d14	1	0	S	11.49	26.80	25	**		0.765	0.820	7.21	
4,4'-DDE	1	0		11.42	50.77		**		0.259			
4,4'-DDD	1	0		11.83	55.14		**		0.454			
Butylbenzylphthalate	1	0		12.09	55.71	50	20	0.01	0.539	0.601	11.41	
4,4'-DDT	1	0		12.19	55.26		**		0.345			
3,3'-Dichlorobenzidine	1	0		12.71	59.63	50	20	0.01	0.450	0.537	19.26	
Benzo[a]anthracene	1	0		12.74	51.93	50	20	0.8	1.219	1.266	3.87	
Chrysene	1	0		12.78	50.34	50	20	0.7	1.112	1.119	0.68	
bis(2-Ethylhexyl)phthalate	1	0		12.79	52.74	50	20	0.01	0.709	0.748	5.48	
Perylene-d12	1	0	I	14.39	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.54	56.54	50	20	0.01	1.174	1.327	13.07	
Benzo[b]fluoranthene	1	0		13.96	50.75	50	20	0.7	1.127	1.144	1.49	
Benzo[k]fluoranthene	1	0		13.99	49.08	50	20	0.7	1.094	1.074	1.85	
Benzo[a]pyrene	1	0		14.33	51.51	50	20	0.7	1.078	1.110	3.03	
Indeno[1,2,3-cd]pyrene	1	0		15.74	50.44	50	20	0.5	1.154	1.164	0.89	
Dibenzo[a,h]anthracene	1	0		15.77	49.83	50	20	0.4	1.014	1.011	0.35	
Benzo[g,h,i]perylene	1	0		16.14	49.59	50	20	0.5	1.016	1.007	0.83	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124549.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/18/2022 2:55:00 P Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.673	0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.923	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F.
624 limits are compared against the concentration found.
625 limits are compared against the %DIFF.
524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124576.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/19/2022 8:44:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.55	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	49.04	50	**		0.947	0.929	1.93	
Pyridine	1	0		3.05	72.51	50	**		1.680	2.436	45.02	
N-Nitrosodimethylamine	1	0		2.99	79.16	50	**		1.448	2.293	58.33	
2-Fluorophenol	1	0	S	4.60	74.56	50	**		2.218	3.308	49.11	
Benzaldehyde	1	0		5.40	76.51	50	20	0.01	1.685	2.579	53.02	C1
Aniline	1	0		5.50	79.37	50	**		3.241	5.144	58.74	
Pentachloroethane	1	0		5.54	75.51	50	**	0.05	0.794	1.199	51.03	
bis(2-Chloroethyl)ether	1	0		5.55	75.90	50	20	0.7	2.270	3.446	51.79	C1
Phenol-d5	1	0	S	5.47	78.03	50	**		2.605	4.066	56.06	
Phenol	1	0		5.48	77.93	50	20	0.8	3.152	4.913	55.86	C1
2-Chlorophenol	1	0		5.60	76.89	50	20	0.8	2.392	3.678	53.78	C1
N-Decane	1	0		5.64	81.72	50	**	0.05	1.665	2.721	63.44	
1,3-Dichlorobenzene	1	0		5.72	74.54	50	**		2.643	3.940	49.08	
1,4-Dichlorobenzene-d4	1	0	I	5.77	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.79	49.69	50	20		1.495	1.486	0.63	
1,2-Dichlorobenzene	1	0		5.91	50.26	50	**		1.430	1.437	0.51	
Benzyl alcohol	1	0		5.89	52.30	50	**		0.888	0.929	4.61	
bis(2-chloroisopropyl)ether	1	0		6.00	56.46	50	20	0.01	1.045	1.180	12.93	
2-Methylphenol	1	0		5.98	53.82	50	20	0.7	1.189	1.280	7.64	
Acetophenone	1	0		6.10	52.47	50	20	0.01	1.567	1.644	4.93	
Hexachloroethane	1	0		6.18	50.10	50	20	0.3	0.543	0.544	0.19	
N-Nitroso-di-n-propylamine	1	0		6.10	52.30	50	20	0.5	0.822	0.860	4.60	
3&4-Methylphenol	1	0		6.10	55.01	50	20		1.145	1.260	10.03	
Naphthalene-d8	1	0	I	6.78	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.22	26.74	25	**		0.157	0.168	6.94	
Nitrobenzene	1	0		6.24	51.18	50	20	0.2	0.336	0.344	2.37	
Isophorone	1	0		6.42	51.86	50	20	0.4	0.649	0.674	3.72	
2-Nitrophenol	1	0		6.48	57.78	50	20	0.1	0.178	0.206	15.56	
2,4-Dimethylphenol	1	0		6.51	50.62	50	20	0.2	0.347	0.351	1.23	
Benzoic Acid	1	0		6.58	45.59	50	**		0.250	0.228	8.82	
bis(2-Chloroethoxy)methane	1	0		6.58	52.53	50	20	0.3	0.384	0.404	5.05	
2,4-Dichlorophenol	1	0		6.66	52.16	50	20	0.2	0.292	0.304	4.33	
1,2,4-Trichlorobenzene	1	0		6.73	49.30	50	**		0.328	0.324	1.40	
Naphthalene	1	0		6.79	47.49	50	20	0.7	1.070	1.016	5.03	
4-Chloroaniline	1	0		6.83	54.50	50	20	0.01	0.377	0.411	9.00	
Hexachlorobutadiene	1	0		6.88	47.89	50	20	0.01	0.187	0.179	4.22	
Caprolactam	1	0		7.11	54.63	50	20	0.01	0.111	0.121	9.26	
4-Chloro-3-methylphenol	1	0		7.19	52.25	50	20	0.2	0.299	0.312	4.50	
2-Methylnaphthalene	1	0		7.32	51.72	50	**	0.4	0.684	0.708	3.45	
1-Methylnaphthalene	1	0		7.41	50.71	50	**	0.4	0.662	0.671	1.42	
Methylnaphthalenes	1	0		7.41	102.67	50	**			1.382	105.33	
1,1'-Biphenyl	1	0		7.70	50.68	50	20	0.01	0.827	0.838	1.37	
Acenaphthene-d10	1	0	I	8.20	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.46	50.80	50	20	0.01	0.564	0.573	1.60	
Hexachlorocyclopentadiene	1	0		7.45	35.76	50	20	0.05	0.304	0.218	28.48	C1
2,4,6-Trichlorophenol	1	0		7.55	51.28	50	20	0.2	0.411	0.422	2.56	
2,4,5-Trichlorophenol	1	0		7.58	50.11	50	20	0.2	0.432	0.433	0.21	
2-Fluorobiphenyl	1	0	S	7.61	24.08	25	**		1.460	1.406	3.68	
2-Chloronaphthalene	1	0		7.72	48.99	50	20	0.8	1.206	1.182	2.02	
1,4-Dimethylnaphthalene	1	0		8.00	50.45	50	**		0.923	0.931	0.91	
Dimethylnaphthalenes	1	0		8.00	50.45	50	20			0.931	0.91	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124576.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/19/2022 8:44:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.78	50.43	50	**		0.825	0.832	0.85	
2-Nitroaniline	1	0		7.80	56.40	50	20	0.01	0.332	0.374	12.81	
Coumarin	1	0		7.99	50.59		**		0.473			
Acenaphthylene	1	0		8.08	49.52	50	20	0.9	1.884	1.866	0.95	
Dimethylphthalate	1	0		7.95	49.24	50	20	0.01	1.415	1.394	1.53	
2,6-Dinitrotoluene	1	0		8.00	54.06	50	20	0.2	0.296	0.320	8.13	
Acenaphthene	1	0		8.23	50.19	50	20	0.9	1.210	1.215	0.37	
3-Nitroaniline	1	0		8.16	55.97	50	20	0.01	0.338	0.378	11.93	
2,4-Dinitrophenol	1	0		8.25	57.33	50	20	0.2	0.153	0.189	14.65	
Dibenzofuran	1	0		8.39	48.49	50	20	0.8	1.847	1.791	3.02	
2,4-Dinitrotoluene	1	0		8.37	54.18	50	20	0.2	0.415	0.450	8.36	
4-Nitrophenol	1	0		8.29	51.94	50	20	0.01	0.221	0.230	3.89	
2,3,4,6-Tetrachlorophenol	1	0		8.50	50.63	50	20	0.01	0.370	0.374	1.26	
Fluorene	1	0		8.72	53.94	50	20	0.9	1.401	1.512	7.88	
4-Chlorophenyl-phenylether	1	0		8.70	53.08	50	20	0.4	0.722	0.766	6.16	
Diethylphthalate	1	0		8.58	50.25	50	20	0.01	1.402	1.409	0.50	
4-Nitroaniline	1	0		8.72	56.83	50	20	0.01	0.361	0.410	13.66	
Atrazine	1	0		9.36	53.95	50	20	0.01	0.395	0.426	7.90	
Phenanthrene-d10	1	0	I	9.68	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.76	53.11	50	20	0.01	0.103	0.116	6.23	
n-Nitrosodiphenylamine	1	0		8.82	50.12	50	20	0.01	0.581	0.582	0.24	
2,4,6-Tribromophenol	1	0	S	8.95	54.88	50	**		0.091	0.100	9.76	
1,2-Diphenylhydrazine	1	0		8.86	52.29	50	**		0.623	0.651	4.59	
4-Bromophenyl-phenylether	1	0		9.20	50.59	50	20	0.1	0.200	0.202	1.18	
Hexachlorobenzene	1	0		9.27	50.14	50	20	0.1	0.219	0.220	0.29	
N-Octadecane	1	0		9.54	56.27	50	**	0.05	0.214	0.240	12.55	
Pentachlorophenol	1	0		9.47	44.07	50	20	0.05	0.146	0.129	11.87	
Phenanthrene	1	0		9.70	48.54	50	20	0.7	0.977	0.949	2.92	
Anthracene	1	0		9.76	50.23	50	20	0.7	0.975	0.980	0.47	
Carbazole	1	0		9.93	50.44	50	20	0.01	0.946	0.954	0.89	
Di-n-butylphthalate	1	0		10.31	53.96	50	20	0.01	1.048	1.131	7.92	
Fluoranthene	1	0		11.04	50.42	50	20	0.6	1.092	1.101	0.84	
Chrysene-d12	1	0	I	12.76	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.31	51.91	50	20	0.6	1.293	1.342	3.82	
Benzidine	1	0		11.20	50.76	50	**		0.582	0.677	1.51	
Terphenyl-d14	1	0	S	11.49	25.53	25	**		0.765	0.781	2.10	
4,4'-DDE	1	0		11.43	49.26		**		0.259			
4,4'-DDD	1	0		11.84	52.55		**		0.454			
Butylbenzylphthalate	1	0		12.09	53.82	50	20	0.01	0.539	0.581	7.65	
4,4'-DDT	1	0		12.19	52.47		**		0.345			
3,3'-Dichlorobenzidine	1	0		12.72	59.16	50	20	0.01	0.450	0.533	18.32	
Benzo[a]anthracene	1	0		12.74	50.07	50	20	0.8	1.219	1.221	0.14	
Chrysene	1	0		12.79	48.25	50	20	0.7	1.112	1.073	3.50	
bis(2-Ethylhexyl)phthalate	1	0		12.79	51.65	50	20	0.01	0.709	0.732	3.29	
Perylene-d12	1	0	I	14.39	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.55	55.90	50	20	0.01	1.174	1.312	11.80	
Benzo[b]fluoranthene	1	0		13.97	53.29	50	20	0.7	1.127	1.201	6.57	
Benzo[k]fluoranthene	1	0		14.00	47.00	50	20	0.7	1.094	1.029	6.01	
Benzo[a]pyrene	1	0		14.33	49.98	50	20	0.7	1.078	1.077	0.05	
Indeno[1,2,3-cd]pyrene	1	0		15.75	48.89	50	20	0.5	1.154	1.128	2.22	
Dibenzo[a,h]anthracene	1	0		15.78	48.67	50	20	0.4	1.014	0.987	2.66	
Benzo[g,h,i]perylene	1	0		16.14	48.79	50	20	0.5	1.016	0.991	2.42	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 7M124576.D **Instrument:** GCMS 7

Cont Calibration Date/Time 10/19/2022 8:44:00 Method: EPA 8270E

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	100	**		0.673	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.923	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M92872.D Method: EPA 8270E

Analysis Date/Time: 09/21/22 12:02

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	43679	2.71	83523	5.87	320678	6.87	158404	8.30	317079	9.76	288029	12.80	295795	14.42
Eval File Area Limit:	21840-87358		41762-167046		160339-641356		79202-316808		158540-634158		144014-576058		147898-591590	
Eval File Rt Limit:	2.21-3.21		5.37-6.37		6.37-7.37		7.8-8.8		9.26-10.26		12.3-13.3		13.92-14.92	

Data File	Sample#													
10M92864.D	CAL BNA@2PPM	45320	2.70	85694	5.87	332880	6.87	162585	8.30	326265	9.76	285394	12.80	294530	14.42
10M92865.D	CAL BNA@10PPM	40174	2.71	75914	5.87	297024	6.87	147217	8.30	292522	9.76	262584	12.80	270773	14.42
10M92866.D	CAL BNA@0.5PPM	44739	2.71	84004	5.87	329199	6.87	162863	8.30	328053	9.76	286823	12.80	298280	14.43
10M92867.D	CAL BNA@196PPM	42556	2.71	79462	5.87	308863	6.88	149303	8.31	301234	9.77	275242	12.82	289907	14.43
10M92868.D	CAL BNA@160PPM	42748	2.71	80088	5.87	308905	6.88	151203	8.31	305844	9.77	275937	12.82	286721	14.43
10M92869.D	CAL BNA@120PPM	41932	2.71	79284	5.87	304308	6.88	150279	8.31	303282	9.76	277674	12.81	288788	14.42
10M92870.D	CAL BNA@80PPM	43715	2.71	83373	5.87	319944	6.87	154937	8.30	311994	9.76	280381	12.81	291020	14.42
10M92871.D	CAL BNA@20PPM	44464	2.71	86143	5.87	330097	6.87	161417	8.30	323690	9.76	293467	12.80	304447	14.42
10M92872.D	CAL BNA@50PPM	43679	2.71	83523	5.87	320678	6.87	158404	8.30	317079	9.76	288029	12.80	295795	14.42
10M92873.D	ICV BNA@50PPM	44752	2.71	86040	5.87	329168	6.87	163609	8.30	328294	9.76	298748	12.81	327891	14.42

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2101107 0093

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M124024.D Method: EPA 8270E

Analysis Date/Time: 09/21/22 12:13

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	53874	2.56	93475	5.78	355160	6.78	196977	8.21	433785	9.67	384324	12.74	409569	14.37
Eval File Area Limit:	26937-107748		46738-186950		177580-710320		98488-393954		216892-867570		192162-768648		204784-819138	
Eval File Rt Limit:	2.06-3.06		5.28-6.28		6.28-7.28		7.71-8.71		9.17-10.17		12.24-13.24		13.87-14.87	

Data File	Sample#													
7M124016.D	CAL BNA@10PPM	50907	2.56	89259	5.78	334078	6.78	181061	8.21	379615	9.68	334953	12.74	344463	14.37
7M124017.D	CAL BNA@2PPM	61085	2.57	104079	5.78	389088	6.78	207245	8.20	437677	9.67	381998	12.74	391869	14.37
7M124018.D	CAL BNA@196PPM	52483	2.57	86233	5.78	328747	6.78	182060	8.21	399606	9.68	333258	12.75	366515	14.37
7M124019.D	CAL BNA@160PPM	51135	2.57	91374	5.78	347086	6.78	187075	8.21	416254	9.68	349173	12.75	379422	14.37
7M124020.D	CAL BNA@120PPM	51114	2.56	91401	5.78	344218	6.78	190199	8.22	414985	9.68	352407	12.75	382086	14.38
7M124021.D	CAL BNA@80PPM	55755	2.56	98572	5.78	365365	6.78	197635	8.21	436765	9.68	374119	12.75	408295	14.37
7M124022.D	CAL BNA@20PPM	54077	2.56	104038	5.78	390373	6.78	212306	8.20	458763	9.67	406465	12.74	425022	14.37
7M124023.D	CAL BNA@0.5PPM	61905	2.56	112865	5.78	415277	6.78	225641	8.20	480199	9.67	417896	12.73	418208	14.37
7M124024.D	CAL BNA@50PPM	53874	2.56	93475	5.78	355160	6.78	196977	8.21	433785	9.67	384324	12.74	409569	14.37
7M124025.D	ICV BNA@50PPM	56037	2.56	101139	5.78	384852	6.78	210215	8.22	459278	9.68	409191	12.75	432113	14.37
7M124026.D	2PPM TEST	52553	2.56	100692	5.78	373463	6.78	204669	8.21	438060	9.67	382496	12.74	383889	14.37
7M124027.D	WMB103058(MS)	54581	2.57	93978	5.78	344710	6.78	181634	8.20	395806	9.67	346035	12.75	359918	14.37
7M124028.D	WMB103058	51536	2.56	94486	5.78	345299	6.78	183268	8.20	397417	9.67	339693	12.73	336091	14.37
7M124029.D	AD33294-001	58061	2.57	103116	5.78	362908	6.78	189886	8.20	410500	9.67	352629	12.73	349338	14.37
7M124030.D	AD33294-002	60014	2.57	102616	5.78	368493	6.78	200560	8.20	430570	9.67	377033	12.73	379325	14.37
7M124031.D	AD33336-002(MS)	57454	2.55	96967	5.78	361016	6.78	197087	8.20	429371	9.67	373687	12.74	382690	14.37
7M124032.D	AD33336-002(MSD)	54030	2.55	95639	5.78	348812	6.78	192143	8.20	416910	9.67	359680	12.74	367248	14.37
7M124033.D	AD33336-002	54527	2.55	104748	5.78	390697	6.78	212092	8.20	452272	9.67	375555	12.74	375053	14.37
7M124034.D	AD33336-005	55525	2.55	104287	5.78	386960	6.78	206113	8.20	434772	9.67	378052	12.74	382808	14.37
7M124035.D	AD33336-008	53099	2.55	98482	5.78	375315	6.78	200909	8.20	419537	9.67	351335	12.74	355201	14.37
7M124036.D	AD33336-011	54377	2.55	102325	5.78	381771	6.78	202980	8.20	424009	9.67	356923	12.74	349275	14.37
7M124037.D	AD33336-014	52312	2.55	99244	5.78	371447	6.78	201544	8.20	424041	9.67	354302	12.74	354405	14.37
7M124038.D	AD33336-017	50882	2.55	96567	5.78	369079	6.78	196638	8.20	415705	9.67	340763	12.74	351831	14.37
7M124039.D	AD33336-020	52160	2.55	95020	5.78	364114	6.78	195700	8.20	410207	9.67	348935	12.74	349609	14.37
7M124040.D	AD33336-021	55637	2.55	102368	5.78	388573	6.78	208392	8.20	431200	9.67	363898	12.74	366092	14.37
7M124041.D	AD33336-022	50046	2.55	92127	5.78	350952	6.78	186411	8.20	394644	9.67	331817	12.74	331856	14.37
7M124042.D	AD33336-023	50184	2.55	91902	5.78	347881	6.78	185009	8.20	392554	9.67	323909	12.74	324301	14.37
7M124043.D	AD33336-012	54678	2.55	100259	5.78	386265	6.78	204834	8.20	426790	9.67	349889	12.74	352005	14.37

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M124534.D Method: EPA 8270E

Analysis Date/Time: 10/18/22 08:36

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	81127	2.56	145006	5.78	561483	6.78	299227	8.20	643643	9.67	538676	12.75	541714	14.39
Eval File Area Limit:	40564-162254		72503-290012		280742-1122966		149614-598454		321822-1287286		269338-1077352		270857-1083428	
Eval File Rt Limit:	2.06-3.06		5.28-6.28		6.28-7.28		7.7-8.7		9.17-10.17		12.25-13.25		13.89-14.89	

Data File	Sample#														
7M124535.D	SMB103329	76658	2.55	134171	5.77	506238	6.78	268752	8.20	578711	9.67	474493	12.75	448281	14.39
7M124536.D	AD33910-004	79976	2.55	139621	5.78	524568	6.78	270582	8.20	568467	9.67	468905	12.75	448897	14.39
7M124537.D	AD33789-001	66111	2.55	108593	5.79	188807A	6.81	136926A	8.27	4033A	9.76	402603	12.75	402955	14.39
7M124538.D	AD33789-002	87792	2.55	163583	5.78	584513	6.78	283193	8.20	624836	9.67	507828	12.75	500088	14.39
7M124539.D	AD33789-003	63388	2.55	93922	5.80	135059A	6.81	175353	8.27	3494A	9.75	435952	12.75	413023	14.39
7M124540.D	AD33851-001	89017	2.55	166125	5.78	630131	6.78	328045	8.20	662484	9.67	530872	12.75	510743	14.39
7M124541.D	AD33851-004	84382	2.55	159499	5.78	607420	6.77	313701	8.20	636395	9.67	509528	12.75	483679	14.39
7M124542.D	AD33860-001	82327	2.55	152138	5.78	575826	6.77	298502	8.20	589899	9.67	466315	12.75	459455	14.39
7M124543.D	AD33766-001(10X)	91823	2.57	176119	5.78	652161	6.77	329596	8.20	661420	9.67	523480	12.75	524291	14.39
7M124544.D	AD33766-002(10X)	91224	2.57	171984	5.78	646826	6.77	331795	8.20	658456	9.67	497555	12.75	496331	14.39
7M124545.D	AD33789-001(10X)	89424	2.56	144878	5.78	407779	6.79	266380	8.22	584885	9.68	534454	12.75	521527	14.39
7M124546.D	AD33789-003(10X)	88413	2.57	137770	5.78	224589A	6.79	279905	8.22	638791	9.68	557881	12.75	522590	14.39
7M124547.D	AD33894-001(5X)	90573	2.57	171466	5.78	632093	6.78	309575	8.20	586569	9.67	494563	12.75	501184	14.39

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 10M93344.D Method: EPA 8270E

Analysis Date/Time: 10/18/22 08:49

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	24161	2.68	50296	5.86	195074	6.87	99524	8.30	208792	9.76	192753	12.80	205152	14.41
Eval File Area Limit:	12080-48322		25148-100592		97537-390148		49762-199048		104396-417584		96376-385506		102576-410304	
Eval File Rt Limit:	2.18-3.18		5.36-6.36		6.37-7.37		7.8-8.8		9.26-10.26		12.3-13.3		13.91-14.91	

Data File	Sample#													
10M93345.D	SMB103329(MS)	18873	2.67	39272	5.86	147908	6.87	75297	8.29	158740	9.75	146553	12.80	151564	14.41
10M93346.D	SMB103329	21182	2.66	42029	5.86	161488	6.86	82488	8.29	176131	9.75	161011	12.79	163314	14.41
10M93347.D	SMB103327	21424	2.67	41721	5.87	166769	6.86	84519	8.29	181203	9.75	166389	12.79	167212	14.41
10M93348.D	AD33910-001	24029	2.67	45264	5.87	177278	6.87	89040	8.29	187044	9.75	174679	12.79	179614	14.41
10M93349.D	AD33910-002	24114	2.67	46211	5.87	182367	6.86	92759	8.29	189951	9.75	177380	12.79	180810	14.41
10M93350.D	AD33910-003	20617	2.66	40500	5.87	159083	6.86	80230	8.29	167635	9.75	149493	12.79	151355	14.41
10M93351.D	AD33910-001(MS)	25246	2.67	49668	5.87	192231	6.87	98065	8.30	202264	9.76	183777	12.80	191616	14.41
10M93352.D	AD33910-001(MSD)	21936	2.67	43183	5.87	166605	6.87	84235	8.30	177173	9.76	161602	12.80	168485	14.41
10M93353.D	AD33838-003	22366	2.67	45204	5.87	176632	6.87	89191	8.29	184961	9.75	168509	12.79	171311	14.41
10M93354.D	AD33838-006	25633	2.67	50030	5.87	194294	6.87	98801	8.29	205488	9.75	186989	12.79	192220	14.41
10M93355.D	AD33838-009	22737	2.67	44607	5.87	172031	6.86	87992	8.29	184273	9.75	167937	12.79	171966	14.41
10M93356.D	AD33870-001	25762	2.67	49515	5.87	192165	6.86	98602	8.29	207888	9.75	188226	12.79	194379	14.41
10M93357.D	AD33870-004	23096	2.67	44652	5.87	174763	6.86	88492	8.29	186292	9.75	166867	12.79	170959	14.41
10M93358.D	AD33873-001	19704	2.66	40224	5.86	154587	6.86	76043	8.30	145055	9.76	139707	12.80	147216	14.41
10M93359.D	AD33806-007	20487	2.66	42797	5.86	161705	6.86	80764	8.29	171390	9.75	157006	12.79	163330	14.41
10M93360.D	WMB103328	30185	2.68	61054	5.86	233555	6.86	118841	8.29	245155	9.75	222109	12.79	231131	14.41
10M93361.D	WMB103330	23014	2.69	45945	5.86	175320	6.86	88673	8.29	184884	9.75	163783	12.79	169572	14.41
10M93365.D	AD33849-002	22450	2.68	44520	5.86	172168	6.87	86430	8.29	180683	9.75	161588	12.79	168515	14.41
10M93366.D	AD33849-003	21258	2.69	39535	5.87	136647	6.87	68941	8.31	144220	9.77	141112	12.80	150313	14.41
10M93367.D	AD33849-004	21244	2.69	43783	5.86	162260	6.87	84848	8.30	169210	9.76	157392	12.80	165220	14.41
10M93368.D	AD33849-005	23166	2.69	47561	5.86	182025	6.86	91343	8.29	188210	9.75	167780	12.79	174018	14.41
10M93369.D	AD33849-006	19762	2.68	39631	5.86	153595	6.86	76833	8.29	159834	9.75	141255	12.79	145482	14.41
10M93370.D	AD33849-007	27330	2.69	55086	5.86	211170	6.86	104842	8.29	210471	9.75	186470	12.79	192883	14.41
10M93371.D	AD33849-008	21778	2.69	45820	5.86	177043	6.86	86987	8.29	182171	9.75	162006	12.79	165871	14.41
10M93372.D	AD33849-009	19947	2.69	40118	5.86	155945	6.86	78098	8.29	160461	9.75	144718	12.79	149172	14.41

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 7M124549.D Method: EPA 8270E

Analysis Date/Time: 10/18/22 14:55

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	87410	2.55	156175	5.77	584656	6.77	318379	8.20	701201	9.67	582798	12.75	583974	14.39
Eval File Area Limit:	43705-174820		78088-312350		292328-1169312		159190-636758		350600-1402402		291399-1165596		291987-1167948	
Eval File Rt Limit:	2.05-3.05		5.27-6.27		6.27-7.27		7.7-8.7		9.17-10.17		12.25-13.25		13.89-14.89	

Data File	Sample#													
7M124550.D	AD33806-001	80729	2.55	142641	5.77	545079	6.77	282209	8.20	559845	9.67	435296	12.75	426712	14.39
7M124551.D	AD33806-001(MS)	76916	2.55	131980	5.77	479736	6.78	246128	8.20	491549	9.67	384559	12.75	391022	14.39
7M124552.D	AD33806-001(MSD)	82014	2.55	140487	5.77	511181	6.78	267048	8.20	540417	9.67	430951	12.75	430447	14.39
7M124553.D	AD33806-003	74892	2.55	137391	5.77	508130	6.77	257777	8.20	508710	9.67	393509	12.75	402322	14.39
7M124554.D	AD33806-005	56473	2.54	132476	5.77	491601	6.77	241135	8.20	500206	9.67	379453	12.75	399638	14.39
7M124555.D	AD33806-002	55305	2.54	121666	5.77	443021	6.77	231577	8.20	396052	9.67	319617	12.76	330504	14.40
7M124556.D	AD33806-004(3X)	47118	2.55	109160	5.77	389518	6.77	168767	8.20	350380A	9.67	290105A	12.76	359496	14.40
7M124557.D	AD33806-006(10X)	56646	2.55	127504	5.77	391549	6.78	253859	8.20	455618	9.67	346265	12.75	343862	14.39
7M124558.D	AD33895-001(10X)	53865	2.55	122044	5.77	425476	6.77	224704	8.20	454750	9.67	373418	12.75	333305	14.39
7M124559.D	AD33823-001(5X)	42653A	2.55	81235	5.78	180345A	6.79	140846A	8.23	344107A	9.68	296004	12.75	324563	14.39
7M124560.D	AD33789-001(20X)	53178	2.55	105733	5.78	327311	6.78	213604	8.20	573682	9.67	376571	12.75	360923	14.39
7M124561.D	AD33789-003(30X)	52114	2.55	109559	5.77	331608	6.78	256653	8.20	568999	9.67	502866	12.75	361084	14.39
7M124562.D	AD33823-002	44518	2.54	79047	5.79	209919A	6.82	142381A	8.27	1978A	9.75	355385	12.75	356458	14.39
7M124563.D	AD33904-001	39504A	2.54	123589	5.77	341273	6.77	174066	8.20	358041	9.67	278153A	12.75	273449A	14.39
7M124564.D	AD33923-002	44283	2.54	134869	5.77	465413	6.77	185495	8.20	373171	9.67	286961A	12.75	283934A	14.39
7M124565.D	AD33923-004	39275A	2.54	86615	5.77	314696	6.77	162240	8.20	328924A	9.67	251335A	12.75	249434A	14.39
7M124566.D	AD33923-006	44348	2.55	96628	5.77	353158	6.77	182544	8.20	366477	9.67	278642A	12.75	273350A	14.39
7M124567.D	AD33924-002	40782A	2.54	88435	5.77	327201	6.77	167389	8.20	338441A	9.67	256941A	12.75	252148A	14.39
7M124568.D	AD33924-004	45287	2.54	97547	5.77	361309	6.77	187181	8.20	374431	9.67	283407A	12.75	277138A	14.39
7M124569.D	AD33924-006	40775A	2.54	88351	5.77	331189	6.77	169855	8.20	342351A	9.67	261609A	12.75	254755A	14.39
7M124570.D	AD33766-001(5X)	51846	2.55	106284	5.77	428977	6.77	229197	8.20	458335	9.67	353488	12.75	339752	14.39
7M124571.D	AD33766-002(5X)	52892	2.55	110984	5.77	416484	6.77	219956	8.20	430978	9.67	330441	12.75	314498	14.39
7M124572.D	AD33740-001	44913	2.55	106222	5.78	433168	6.77	235419	8.20	468720	9.67	368012	12.75	331968	14.39
7M124573.D	AD33740-002	52251	2.55	110667	5.78	413132	6.77	216905	8.20	434563	9.67	338698	12.75	307813	14.39
7M124574.D	AD33740-003	49286	2.55	103190	5.78	385797	6.77	202425	8.20	404970	9.67	314164	12.75	283900A	14.39

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 7M124576.D Method: EPA 8270E

Analysis Date/Time: 10/19/22 08:44

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	52617	2.55	138686	5.77	526853	6.78	288551	8.20	664060	9.68	548019	12.76	541222	14.39
Eval File Area Limit:	26308-105234		69343-277372		263426-1053706		144276-577102		332030-1328120		274010-1096038		270611-1082444	
Eval File Rt Limit:	2.05-3.05		5.27-6.27		6.28-7.28		7.7-8.7		9.18-10.18		12.26-13.26		13.89-14.89	

Data File	Sample#														
7M124577.D	SMB103334	58451	2.55	149917	5.77	581434	6.77	230656	8.20	502110	9.67	390853	12.75	362141	14.39
7M124578.D	SMB103343	39274	2.55	95139	5.77	344720	6.77	187923	8.20	414652	9.67	293425	12.75	271736	14.39
7M124579.D	AD33776-010	49410	2.55	99318	5.77	377295	6.77	202606	8.20	427120	9.68	401431	12.75	420223	14.39
7M124580.D	AD33776-011	53014	2.55	140498	5.77	533688	6.77	232501	8.20	433019	9.68	354041	12.75	370795	14.39
7M124581.D	AD33914-001	46433	2.54	78918	5.78	125336A	6.81	99642A	8.27	429973	9.70	395365	12.75	353766	14.39
7M124582.D	AD33939-002	55768	2.54	114956	5.77	423073	6.77	231877	8.20	493787	9.67	385662	12.75	461121	14.39
7M124583.D	AD33939-004	45555	2.55	126902	5.77	372597	6.77	195153	8.20	394395	9.67	304741	12.75	301453	14.39
7M124584.D	AD33926-002	48026	2.55	100096	5.77	378014	6.77	198667	8.20	399279	9.67	314780	12.75	309671	14.39
7M124585.D	AD33926-004	44854	2.55	94216	5.77	350623	6.77	183827	8.20	369115	9.67	284607	12.75	279608	14.39
7M124586.D	AD33926-006	57258	2.55	121370	5.78	451700	6.77	258801	8.20	511636	9.67	411591	12.75	408583	14.39
7M124587.D	AD33925-002	45377	2.54	93530	5.77	346542	6.78	190338	8.20	373285	9.67	280899	12.75	274331	14.39
7M124588.D	AD33776-010(R)	50009	2.54	111178	5.78	504405	6.78	235417	8.20	416982	9.68	323226	12.76	322436	14.39
7M124589.D	AD33868-016(3X)	45173	2.55	103523	5.77	383218	6.77	205313	8.20	482245	9.67	286592	12.75	279955	14.39
7M124590.D	AD33925-004	45801	2.55	98148	5.78	370395	6.77	201219	8.20	411206	9.67	321808	12.75	310249	14.39
7M124591.D	AD33925-006	48354	2.54	107822	5.78	376904	6.78	213322	8.20	456769	9.67	394478	12.75	296217	14.39
7M124592.D	AD33922-002	55864	2.54	117594	5.77	474534	6.78	251196	8.20	523806	9.67	352517	12.75	330707	14.39
7M124593.D	AD33922-004	54098	2.54	143311	5.78	452269	6.77	222724	8.20	451521	9.67	344392	12.75	320468	14.39
7M124594.D	AD33922-006	41996	2.54	113960	5.78	421518	6.77	175196	8.20	360501	9.67	271912A	12.75	264741A	14.39
7M124595.D	AD33927-002	59123	2.54	164786	5.77	458402	6.77	264586	8.20	575181	9.67	371338	12.75	344569	14.40
7M124596.D	AD33927-004	52407	2.55	139476	5.77	415278	6.77	236827	8.20	549492	9.67	404393	12.75	364817	14.39
7M124597.D	AD33927-006	49556	2.54	105247	5.77	414110	6.78	246286	8.20	454459	9.67	321047	12.75	291492	14.39
7M124598.D	AD33927-006(MS)	57501	2.55	143959	5.78	533097	6.78	223903	8.20	465342	9.68	359249	12.76	322618	14.40
7M124599.D	AD33927-006(MSD)	56831	2.55	152641	5.78	559222	6.78	289797	8.20	581259	9.68	430814	12.76	392857	14.40
7M124600.D	AD33923-002	50590	2.54	132871	5.77	465604	6.77	197767	8.20	395938	9.67	350561	12.75	330065	14.39
7M124601.D	AD33923-004	47734	2.54	116001	5.77	433635	6.77	218187	8.20	364639	9.67	275152	12.75	251420A	14.39
7M124602.D	AD33923-006	50440	2.54	127689	5.77	501907	6.77	263582	8.20	519312	9.67	305596	12.75	267329A	14.39
7M124603.D	AD33895-001(30X)	55959	2.55	143163	5.77	558147	6.77	289818	8.20	535634	9.67	355193	12.75	323170	14.39
7M124604.D	AD33806-004(3X)	52714	2.55	134445	5.77	456549	6.78	225676	8.20	460084	9.68	363931	12.76	331163	14.40

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-001
Client Id: SB-62SS(6')
Data File: 8G669243.D
Analysis Date: 10/20/22 09:49
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	64	U				

Worksheet #: 661849

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669243.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 09:49:21
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 10:11:38 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.275	16325	9.289		
23)	O-Terphenyl	6.539	38929	13.622		
24)d	Diesel Range Organics(T	6.539f	372556	159.824		m
25)t	Total Petroleum Hydroca	6.539f	1158833	508.514		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

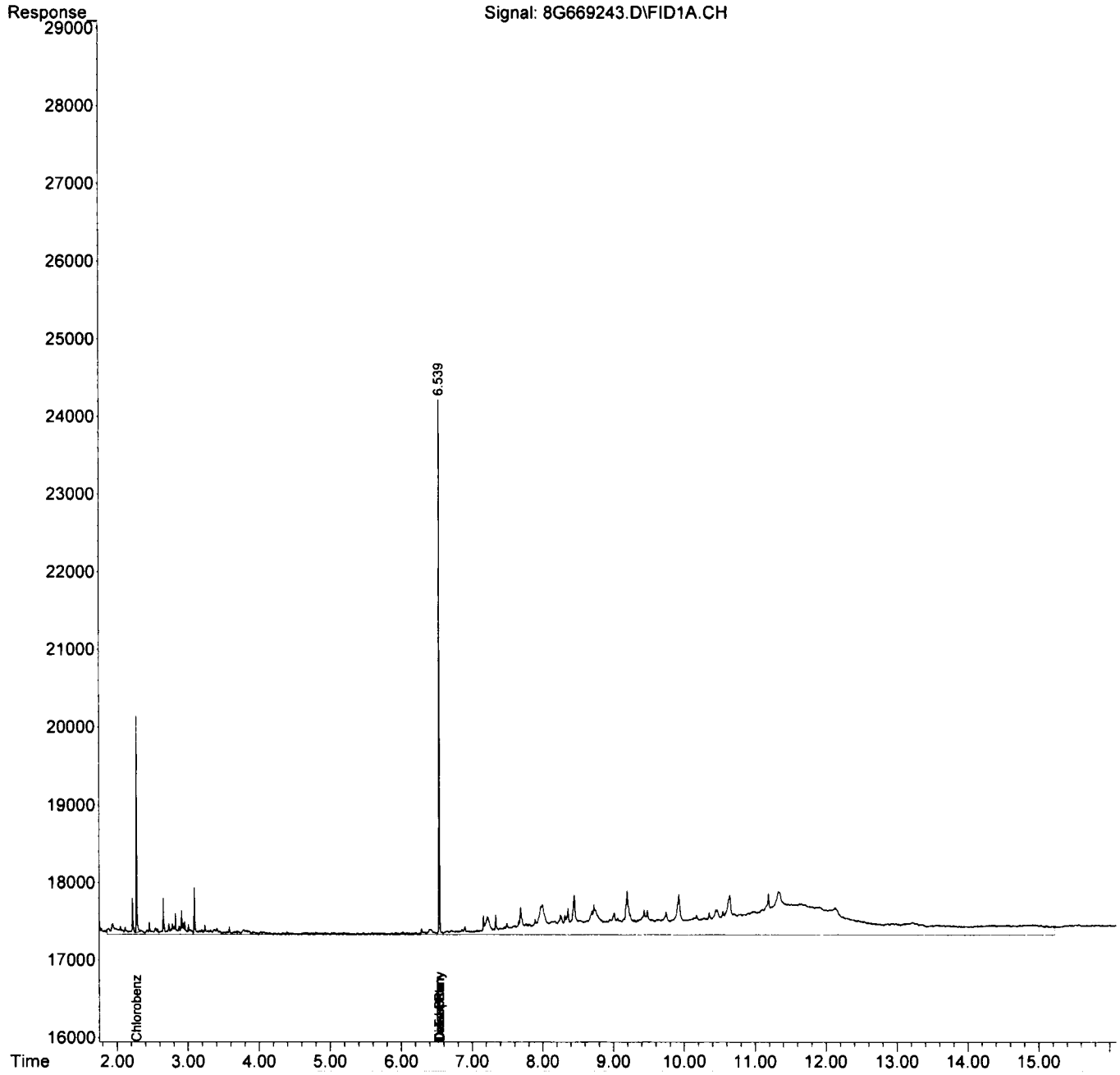
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669243.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 09:49:21
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 10:11:38 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-002
Client Id: SB-62SS(14'-16')
Data File: 8G669244.D
Analysis Date: 10/20/22 10:15
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**73**	**270**				

Worksheet #: 661849

Total Target Concentration 270

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669244.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 10:15:09
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 10:38:41 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.274	12673	7.211		m
23)	O-Terphenyl	6.553	44082	15.425		
24)d	Diesel Range Organics(T	6.553f	1415158	607.091		m
25)t	Total Petroleum Hydroca	6.553f	3142099	1378.803		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

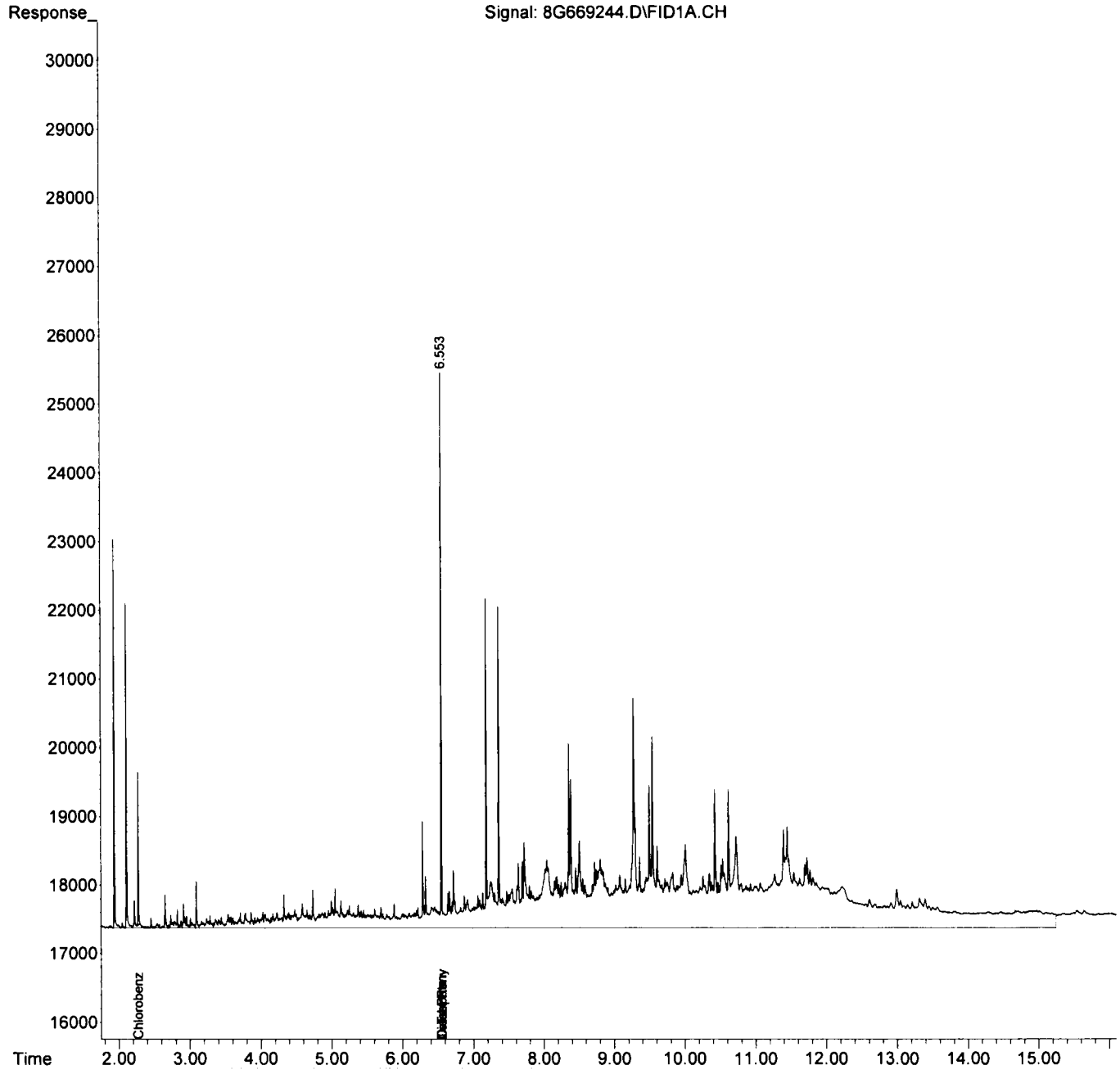
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669244.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 10:15:09
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 10:38:41 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-003
Client Id: SB-63SS(6')
Data File: 8G669245.D
Analysis Date: 10/20/22 10:41
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**77**	**420**				

Worksheet #: 661849 *Total Target Concentration* 420 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669245.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 10:41:06
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-003
Misc : S.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:04:48 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.274	13679	7.783		m
23)	O-Terphenyl	6.545	39814	13.931		
24)d	Diesel Range Organics(T	6.545f	1328221	569.796		m
25)t	Total Petroleum Hydroca	6.545f	4295283	1884.839		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

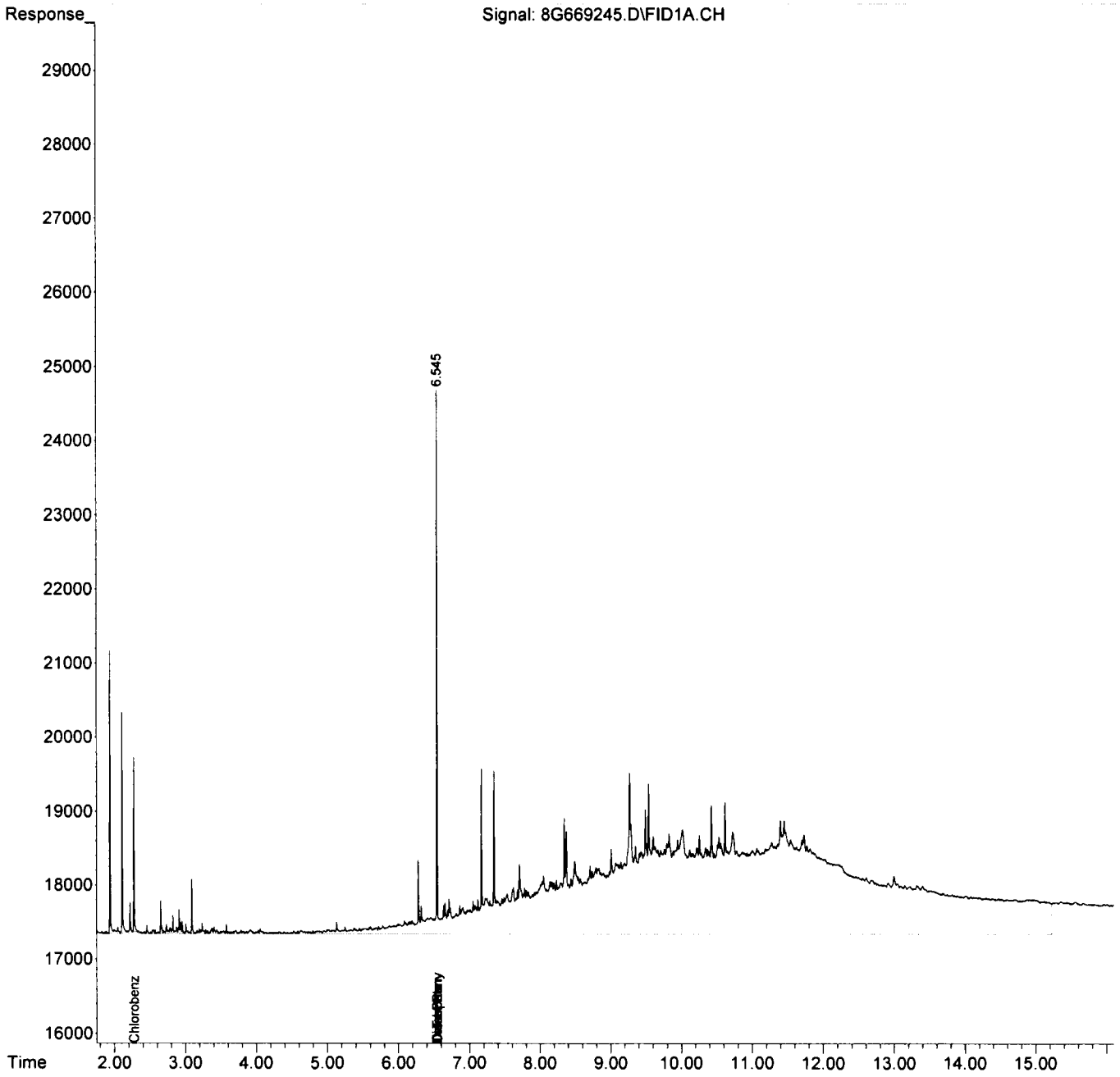
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669245.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 10:41:06
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-003
Misc : S.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:04:48 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-004(3X)
Client Id: SB-63SS(14')
Data File: 8G669250.D
Analysis Date: 10/20/22 12:50
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 3
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**230**	**4300**				

Worksheet #: 661849 *Total Target Concentration* 4300 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669250.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 12:50:05
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-004(3X)
Misc : S.TPH:3
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 13:11:08 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.276	5248	2.986		
23)	O-Terphenyl	6.556	14882	5.207		m
24)d	Diesel Range Organics(T	4.736f	8478236	3637.094		m
25)t	Total Petroleum Hydroca	4.736	13105080	5750.719		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

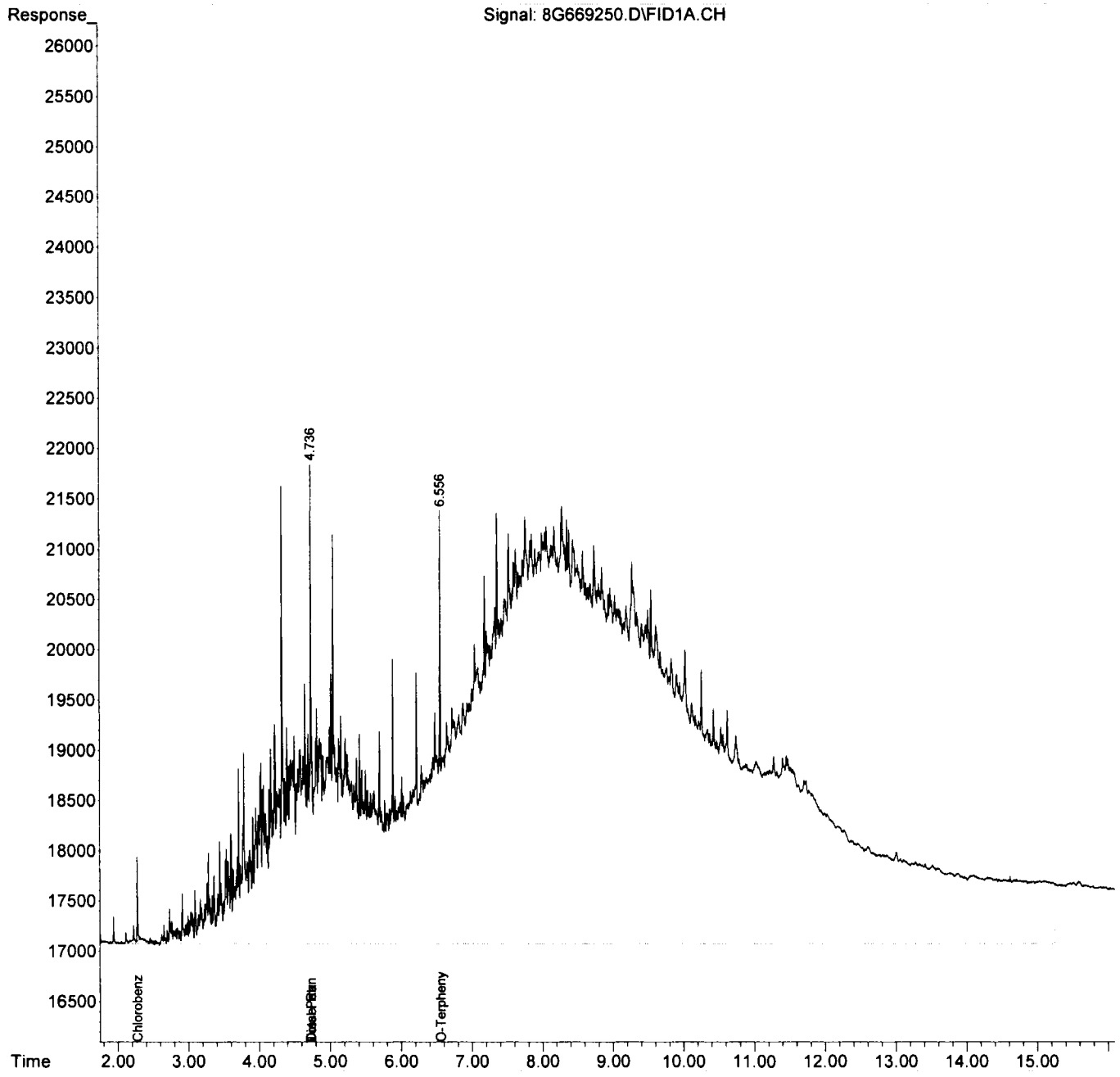
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669250.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 12:50:05
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-004(3X)
Misc : S.TPH:3
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 13:11:08 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-005
Client Id: SB-64SS(6')
Data File: 8G669247.D
Analysis Date: 10/20/22 11:32
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**70**	**540**				

Worksheet #: 661849

Total Target Concentration 540

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669247.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 11:32:39
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-005
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:59:22 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.274	16901	9.616		
23)	O-Terphenyl	6.551	41413	14.491		
24)d	Diesel Range Organics(T	6.551f	2023378	868.013		m
25)t	Total Petroleum Hydroca	6.551f	5871930	2576.696		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

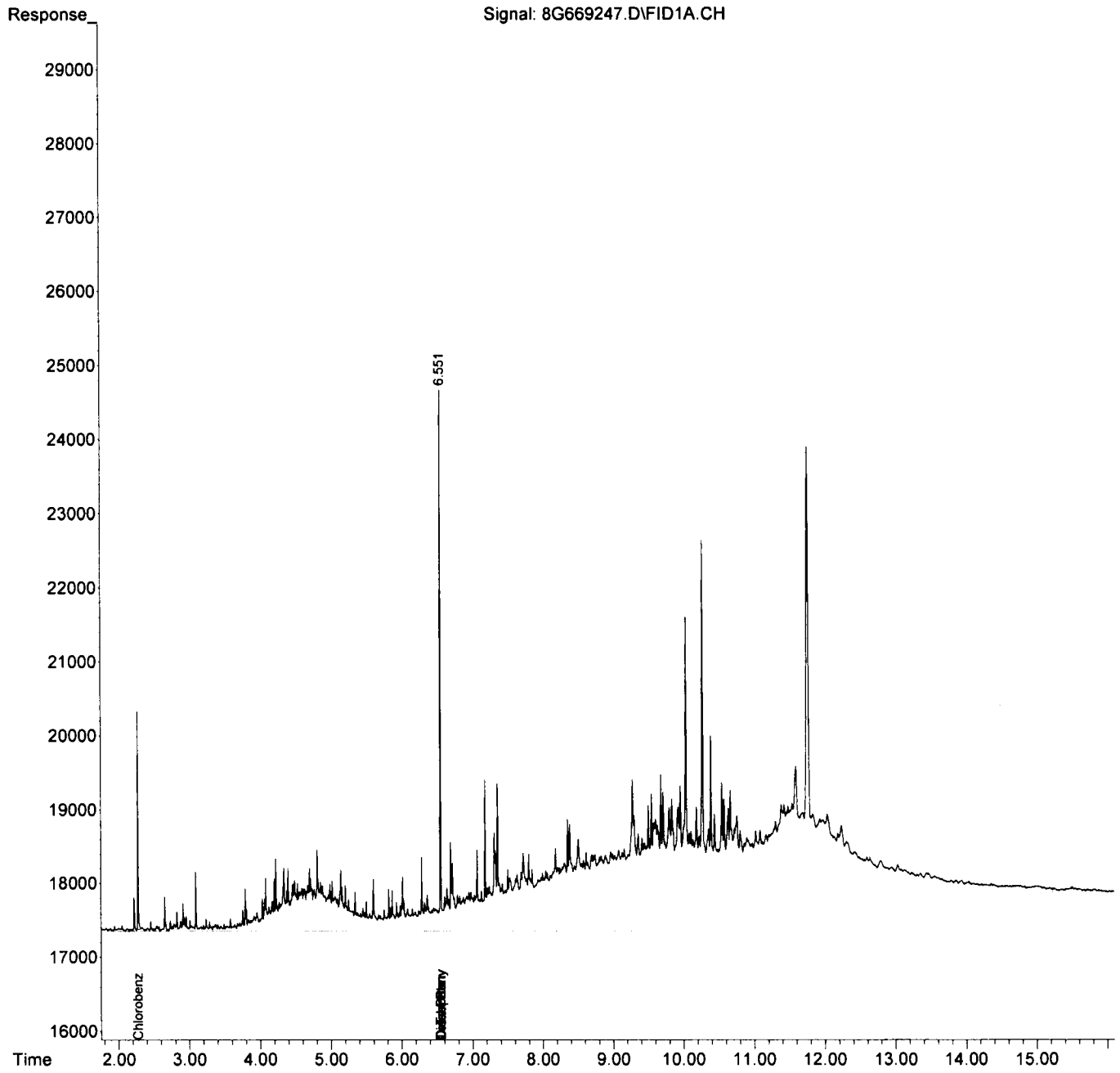
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669247.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 11:32:39
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-005
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:59:22 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-006(10X)
Client Id: SB-64SS(14-15')
Data File: 8G669249.D
Analysis Date: 10/20/22 12:24
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 10
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**750**	**15000**				

Worksheet #: 661849

Total Target Concentration 15000

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669249.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 12:24:03
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-006(10X)
Misc : S.TPH:10
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 12:44:22 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	4.326	7806781	3349.045		m
25)t	Total Petroleum Hydroca	4.326	13946830	6120.092		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

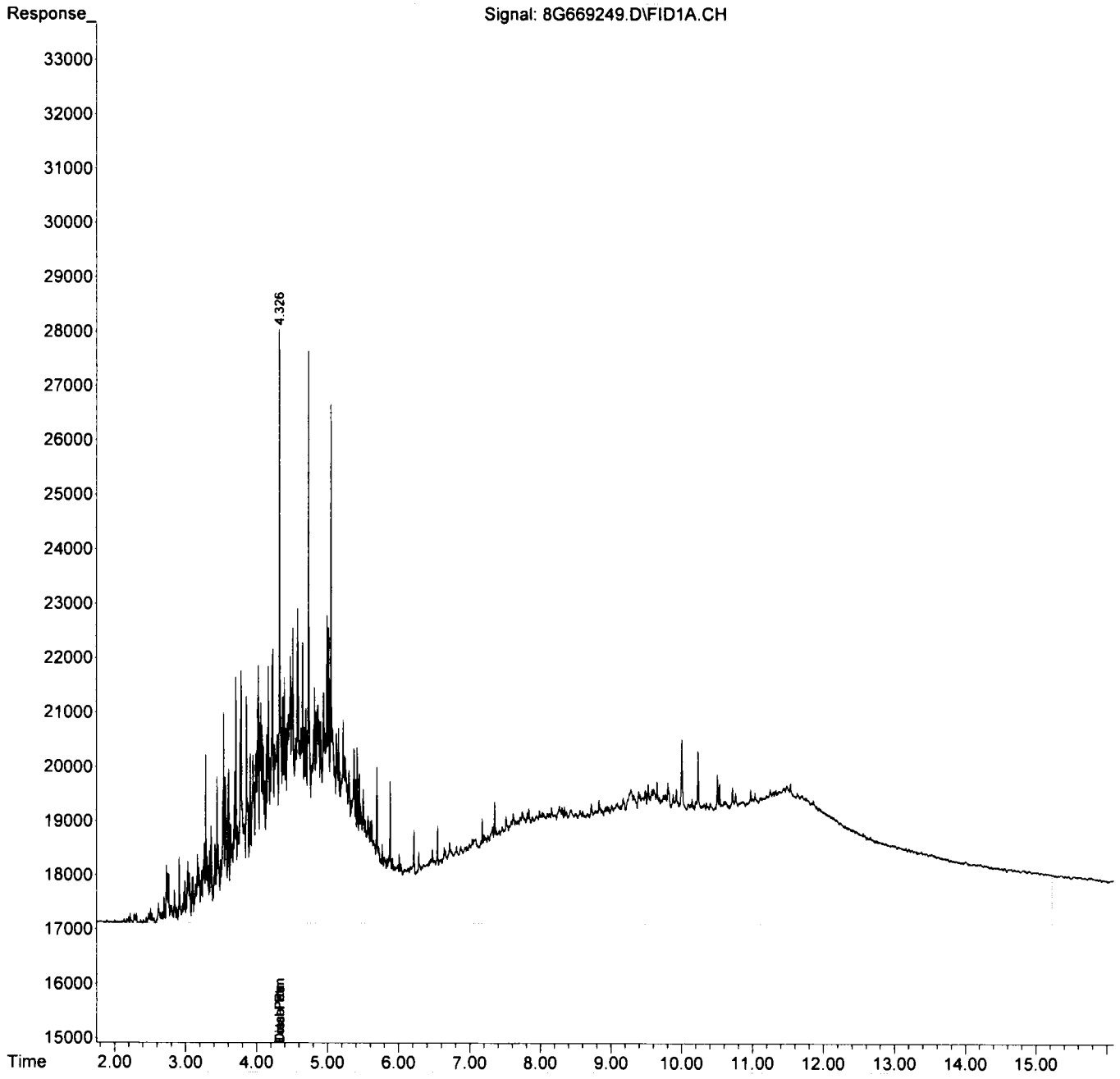
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669249.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 12:24:03
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-006(10X)
Misc : S.TPH:10
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 12:44:22 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-007
Client Id: SB-67AS(8-10')
Data File: 8G669248.D
Analysis Date: 10/20/22 11:58
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**77**	**140**				

Worksheet #: 661849 ***Total Target Concentration*** 140 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669248.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 11:58:31
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-007
Misc : S.TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 12:26:57 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.274	13728	7.811		
23)	O-Terphenyl	6.552	40899	14.311		
24)d	Diesel Range Organics(T	6.552f	320378	137.440		m
25)t	Total Petroleum Hydroca	6.552f	1827528	801.948		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

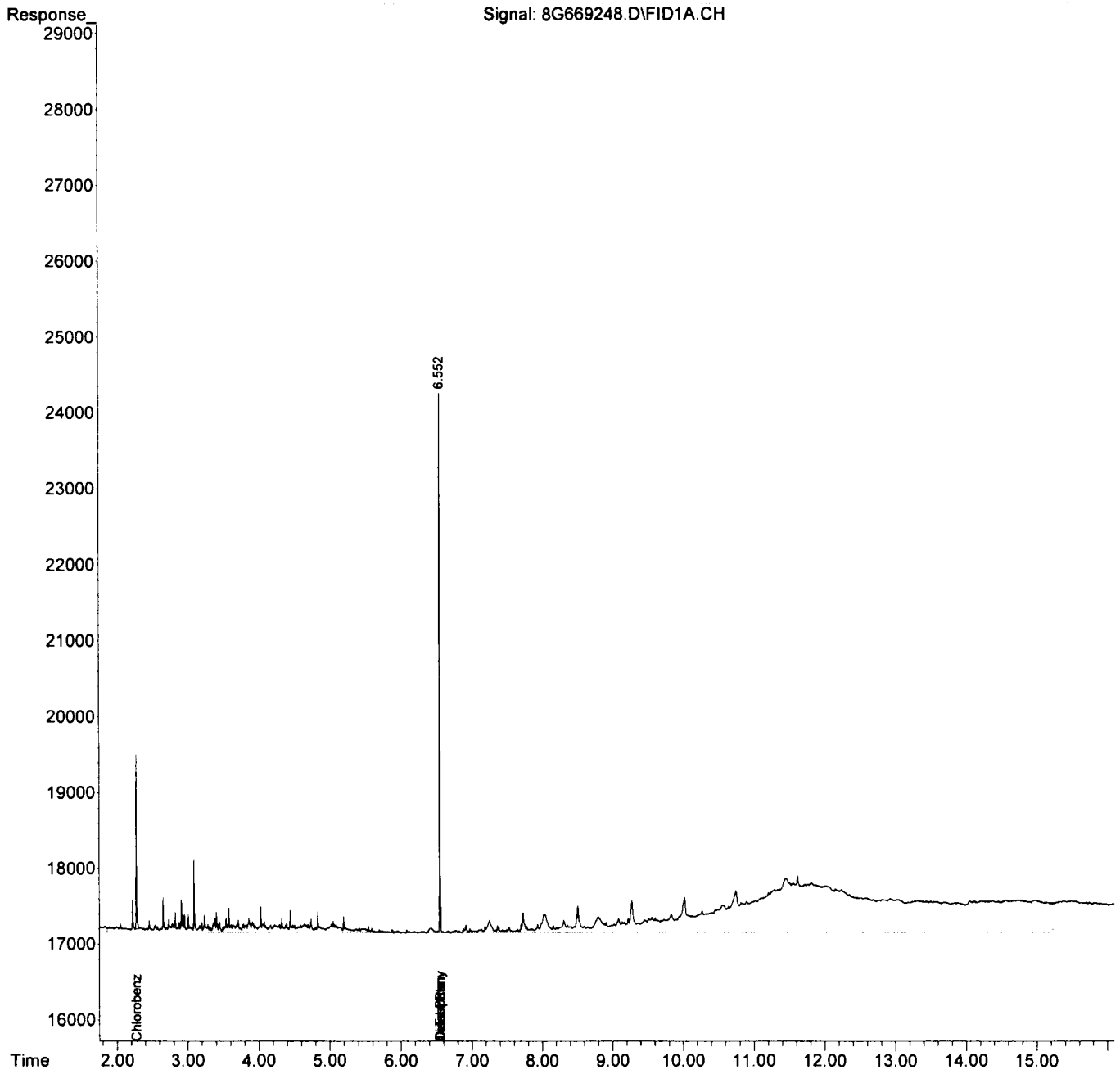
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669248.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 11:58:31
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-007
Misc : S.TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 12:26:57 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103354
Client Id:
Data File: 8G669241.D
Analysis Date: 10/20/22 08:57
Date Rec/Extracted: NA-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	60	U				

Worksheet #: 661849

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669241.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 08:57:55
Operator : AH/ABM/RR/KT/JR
Sample : SMB103354
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 09:22:49 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.275	17763	10.107		
23)	O-Terphenyl	6.555	37324	13.060		
24)d	Diesel Range Organics(T	6.554f	137250	58.879		m
25)t	Total Petroleum Hydroca	6.554f	624940	274.234		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

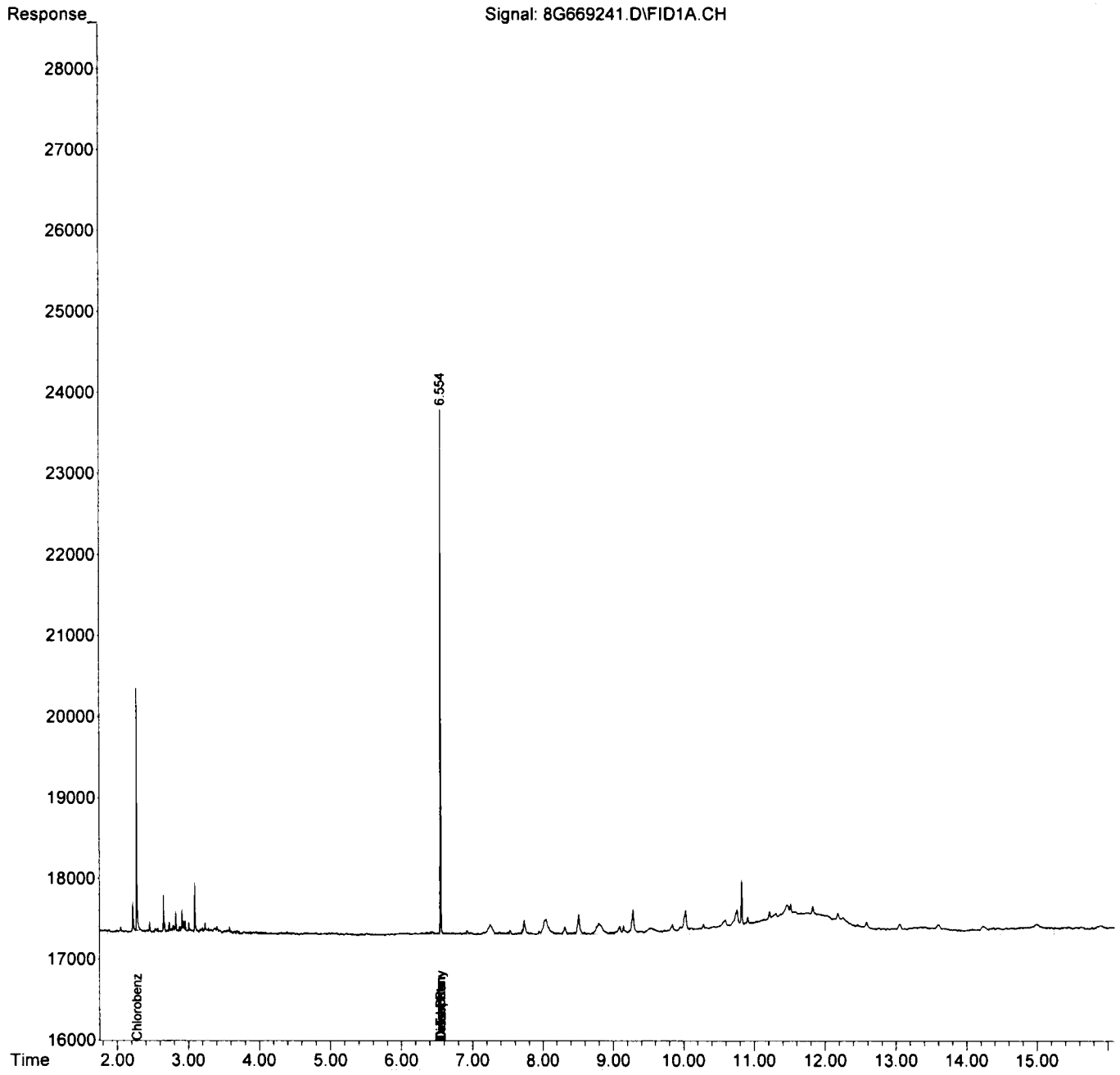
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669241.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 08:57:55
Operator : AH/ABM/RR/KT/JR
Sample : SMB103354
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 09:22:49 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669240.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 08:29:46
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 09:00:25 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	4.395	45289	19.429		m
25)t	Total Petroleum Hydroca	11.744f	534219	234.424		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

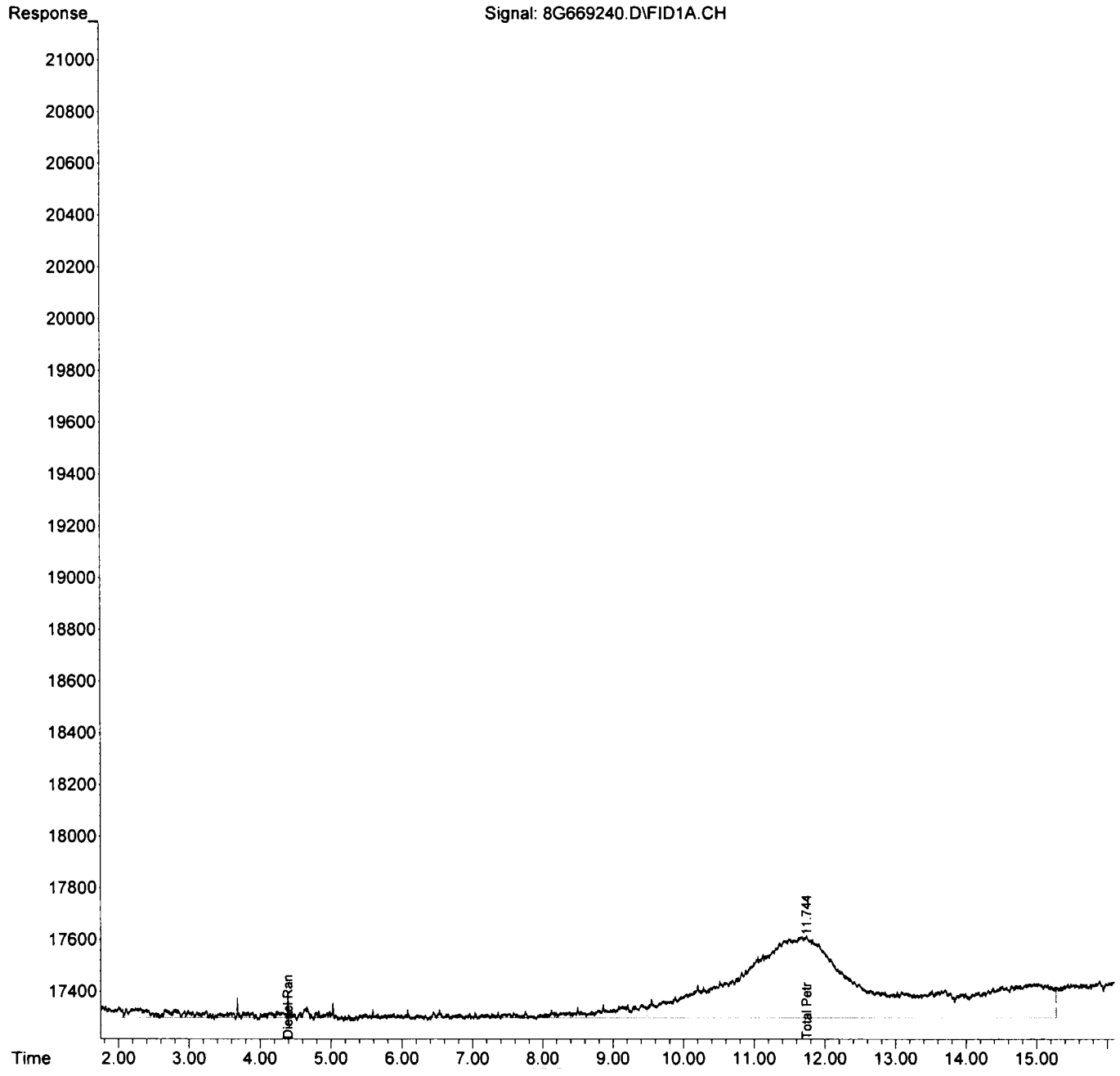
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669240.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 08:29:46
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 09:00:25 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669241.D	SMB103354	S	10/20/22 08:57	1		51	65				
8G669253.D	AD33806-001(MS)	S	10/20/22 14:07	1		48	68				
8G669254.D	AD33806-001(MSD)	S	10/20/22 14:32	1		45	68				
8G669243.D	AD33806-001	S	10/20/22 09:49	1		46	68				
8G669244.D	AD33806-002	S	10/20/22 10:15	1		36	77				
8G669245.D	AD33806-003	S	10/20/22 10:41	1		39	70				
8G669250.D	AD33806-004(3X)	S	10/20/22 12:50	3		45	78				
8G669247.D	AD33806-005	S	10/20/22 11:32	1		48	72				
8G669249.D	AD33806-006(10X)	S	10/20/22 12:24	10	SD	0*	0*				
8G669248.D	AD33806-007	S	10/20/22 11:58	1		39	72				
8G669242.D	SMB103354(MS)	S	10/20/22 09:23	1		33	64				

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103354

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669242.D	SMB103354(MS)	10/20/2022 9:23:54 AM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669240.D	INST BLK(MECL2)	10/20/2022 8:29:46 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1732.3	0	3000	58	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103354

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669253.D	AD33806-001(MS)	10/20/2022 2:07:10 PM
Non Spike(If applicable):	8G669243.D	AD33806-001	10/20/2022 9:49:21 AM
Inst Blank(If applicable):	8G669240.D	INST BLK(MECL2)	10/20/2022 8:29:46 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2140.69	126.77	3000	67	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669254.D	AD33806-001(MSD)	10/20/2022 2:32:41 PM
Non Spike(If applicable):	8G669243.D	AD33806-001	10/20/2022 9:49:21 AM
Inst Blank(If applicable):	8G669240.D	INST BLK(MECL2)	10/20/2022 8:29:46 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	1917.61	126.77	3000	60	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103354

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669254.D	AD33806-001(MSD)	10/20/2022 2:32:41 PM
Duplicate(If applicable):	8G669253.D	AD33806-001(MS)	10/20/2022 2:07:10 PM
Inst Blank(If applicable):	8G669240.D	INST BLK(MECL2)	10/20/2022 8:29:46 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	1917.61	2140.69	11	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103354
Blank Data File: 8G669241.D
Matrix: Soil

Blank Analysis Date: 10/20/22 08:57
Blank Extraction Date: 10/19/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33806-001	8G669243.D	10/20/22 09:49
AD33806-002	8G669244.D	10/20/22 10:15
AD33806-003	8G669245.D	10/20/22 10:41
AD33806-004(3X)	8G669250.D	10/20/22 12:50
AD33806-005	8G669247.D	10/20/22 11:32
AD33806-006(10X)	8G669249.D	10/20/22 12:24
AD33806-007	8G669248.D	10/20/22 11:58
AD33806-001(MS)	8G669253.D	10/20/22 14:07
AD33806-001(MSD	8G669254.D	10/20/22 14:32
SMB103354(MS)	8G669242.D	10/20/22 09:23

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669238.D	INST BLK(MECL2)	10/20/22 07:27	Aqueous					
8G669239.D	CALTPH@20PPM	10/20/22 07:38	Aqueous	8G66923	6.5812	0		
8G669240.D	INST BLK(MECL2)	10/20/22 08:29	Aqueous	8G66923	0.0000	200		
8G669241.D	SMB103354	10/20/22 08:57	Soil	8G66923	6.5547	0.4035		
8G669242.D	SMB103354(MS)	10/20/22 09:23	Soil	8G66923	6.5429	0.5837		
8G669243.D	AD33806-001	10/20/22 09:49	Soil	8G66923	6.5393	0.6387		
8G669244.D	AD33806-002	10/20/22 10:15	Soil	8G66923	6.5530	0.4294		
8G669245.D	AD33806-003	10/20/22 10:41	Soil	8G66923	6.5453	0.547		
8G669246.D	AD33806-004	10/20/22 11:06	Soil	8G66923	6.5493	0.4859		
8G669247.D	AD33806-005	10/20/22 11:32	Soil	8G66923	6.5510	0.4599		
8G669248.D	AD33806-007	10/20/22 11:58	Soil	8G66923	6.5524	0.4386		
8G669249.D	AD33806-006(10X)	10/20/22 12:24	Soil	8G66923	0.0000	200		
8G669250.D	AD33806-004(3X)	10/20/22 12:50	Soil	8G66923	6.5562	0.3806		
8G669251.D	AD33894-002	10/20/22 13:15	Soil	8G66923	6.5441	0.5653		
8G669252.D	AD33894-004	10/20/22 13:41	Soil	8G66923	6.5493	0.4859		
8G669253.D	AD33806-001(MS)	10/20/22 14:07	Soil	8G66923	6.5526	0.4355		
8G669254.D	AD33806-001(MSD)	10/20/22 14:32	Soil	8G66923	6.5633	0.2724		
8G669255.D	CALTPH@20PPM	10/20/22 14:58	Aqueous	8G66923	6.5705	0.1627		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101107 0132

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:	8G669239.D	8G669255.D
Method:	8015	8015
Calibration Name:	CALTPH@20PPM	CALTPH@20PPM
Calibration Date/Time	10/20/22 07:38	10/20/22 14:58

Compound	Limit	Col	Mr	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff	Conc	Exp Conc	%Diff
C8	20	1	0	21.26	20	6.3	21.09	20	5.5									
C9	20	1	0	20.93	20	4.7	21.22	20	6.1									
C10	20	1	0	20.43	20	2.2	20.67	20	3.4									
C12	20	1	0	20.38	20	1.9	20.5	20	2.5									
C14	20	1	0	20.24	20	1.2	20.34	20	1.7									
C16	20	1	0	19.93	20	0.3	20.06	20	0.3									
C17	20	1	0	15.95	20	20.3	23.54	20	17.7									
Pristane	20	1	0	19.22	20	3.9	19.94	20	0.3									
C18	20	1	0	19.76	20	1.2	19.78	20	1.1									
Phytane	20	1	0	19.98	20	0.1	19.91	20	0.5									
C20	20	1	0	19.9	20	0.5	19.95	20	0.2									
C22	20	1	0	20.14	20	0.7	20.5	20	2.5									
C24	20	1	0	20.27	20	1.4	19.88	20	0.6									
C26	20	1	0	20.22	20	1.1	19.79	20	1.0									
C28	20	1	0	20.31	20	1.5	19.8	20	1.0									
C30	20	1	0	20.46	20	2.3	19.53	20	2.3									
C32	20	1	0	20.2	20	1.0	19.33	20	3.4									
C34	20	1	0	19.46	20	2.7	18.95	20	5.2									
C36	20	1	0	17.99	20	10.1	17.75	20	11.3									
C40	20	1	0	14.96	20	25.2*	14.92	20	25.4*									
C44	20	1	0	13.26	20	33.7*	13.39	20	33.1*									
Chlorobenzene	20	1	0	21.03	20	5.2	21.44	20	7.2									
O-Terphenyl	20	1	0	19.94	20	0.3	20	20	0.0									
Average Difference	20	1	0			5.5			5.7									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.58	(6.54 - 6.62)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-001
Client Id: SB-62SS(6')
Data File: 8G669243.D
Analysis Date: 10/20/22 09:49
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	64	U				

Worksheet #: 661850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669243.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 09:49:21
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 10:11:38 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.275	16325	9.289		
23)	O-Terphenyl	6.539	38929	13.622		
24)d	Diesel Range Organics(T	6.539f	372556	159.824		m
25)t	Total Petroleum Hydroca	6.539f	1158833	508.514		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

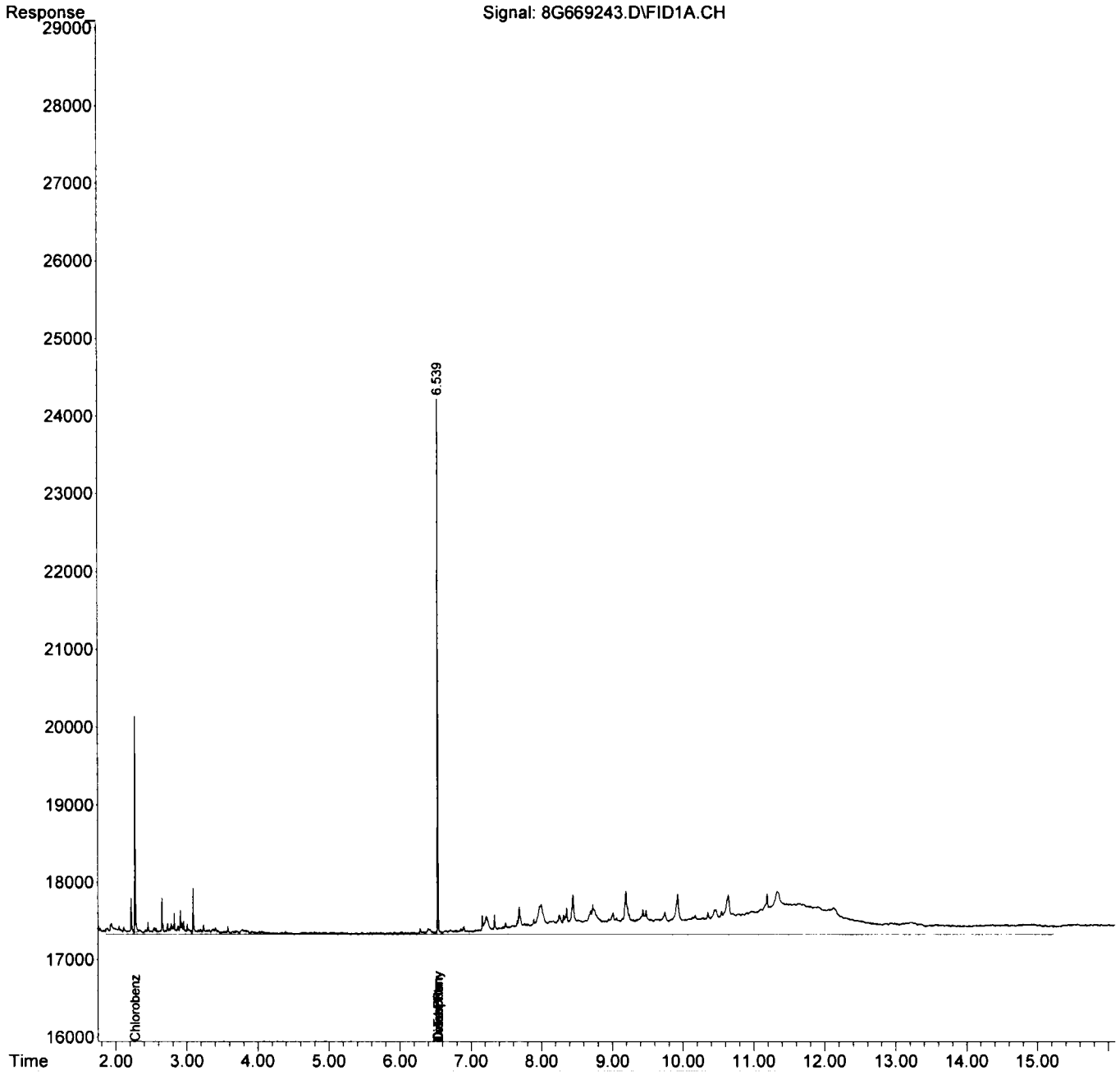
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669243.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 09:49:21
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-001
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 10:11:38 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-002
Client Id: SB-62SS(14'-16')
Data File: 8G669244.D
Analysis Date: 10/20/22 10:15
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**73**	**140**				

Worksheet #: 661850 *Total Target Concentration* 140 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669244.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 10:15:09
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 10:38:41 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.274	12673	7.211		m
23)	O-Terphenyl	6.553	44082	15.425		
24)d	Diesel Range Organics(T	6.553f	1415158	607.091		m
25)t	Total Petroleum Hydroca	6.553f	3142099	1378.803		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

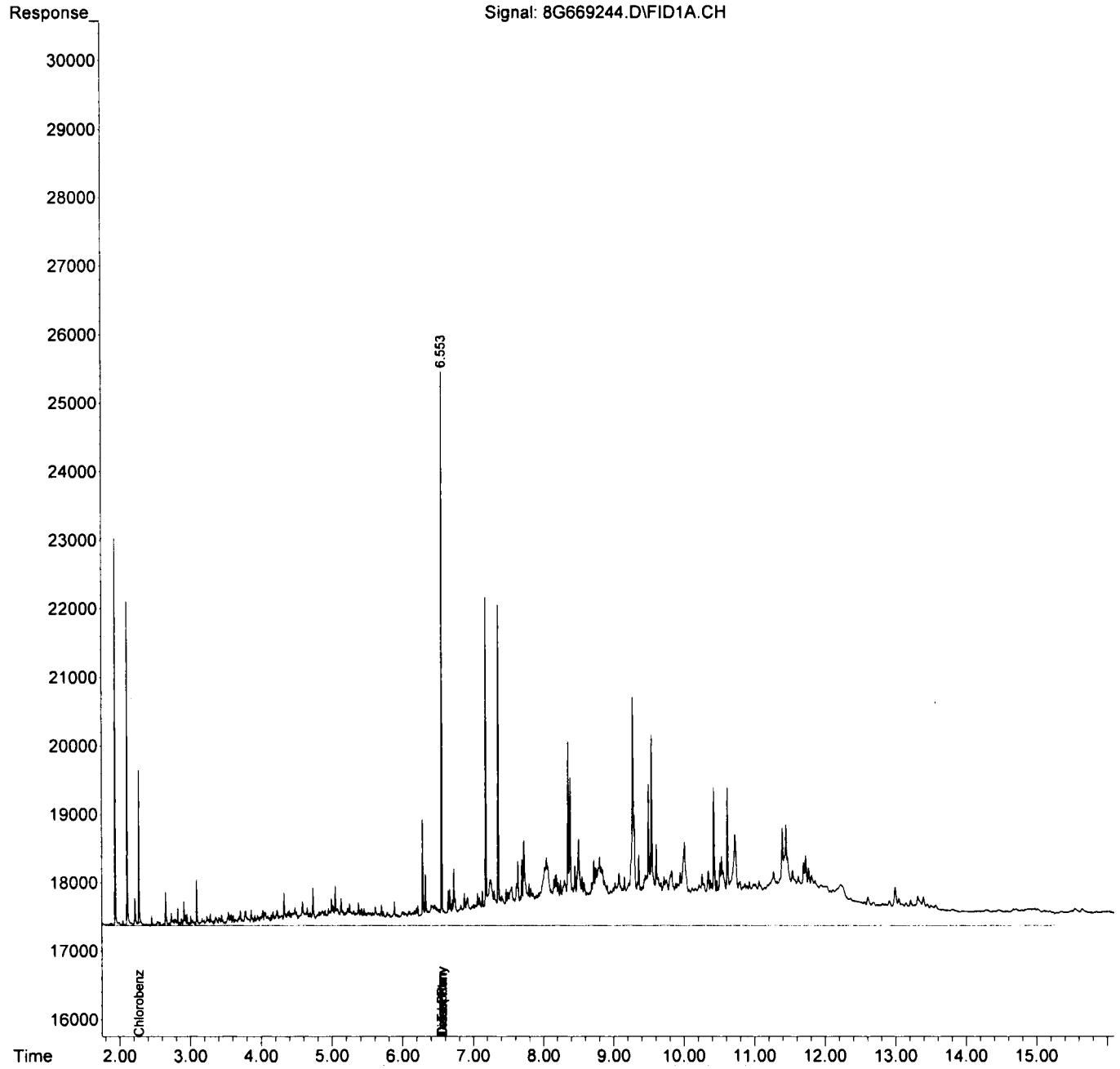
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669244.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 10:15:09
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-002
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 10:38:41 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-003
Client Id: SB-63SS(6')
Data File: 8G669245.D
Analysis Date: 10/20/22 10:41
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**77**	**140**				

Worksheet #: 661850 *Total Target Concentration* 140 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669245.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 10:41:06
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-003
Misc : S.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:04:48 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.274	13679	7.783		m
23)	O-Terphenyl	6.545	39814	13.931		
24)d	Diesel Range Organics(T	6.545f	1328221	569.796		m
25)t	Total Petroleum Hydroca	6.545f	4295283	1884.839		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

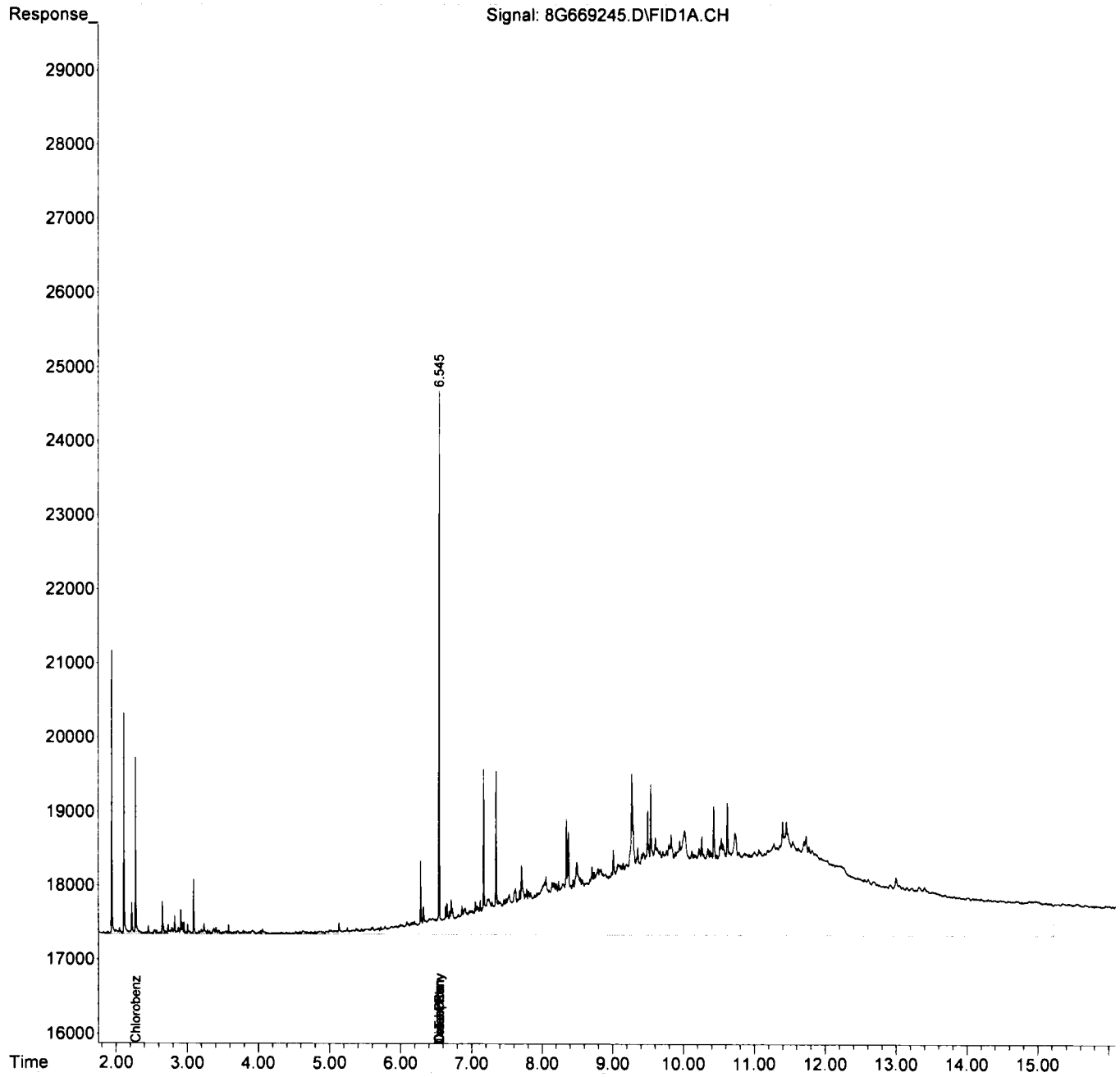
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669245.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 10:41:06
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-003
Misc : S.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:04:48 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-004(3X)
Client Id: SB-63SS(14')
Data File: 8G669250.D
Analysis Date: 10/20/22 12:50
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 3
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**230**	**2800**				

Worksheet #: 661850

Total Target Concentration 2800

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669250.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 12:50:05
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-004(3X)
Misc : S.TPH:3
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 13:11:08 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.276	5248	2.986		
23)	O-Terphenyl	6.556	14882	5.207		m
24)d	Diesel Range Organics(T	4.736f	8478236	3637.094		m
25)t	Total Petroleum Hydroca	4.736	13105080	5750.719		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

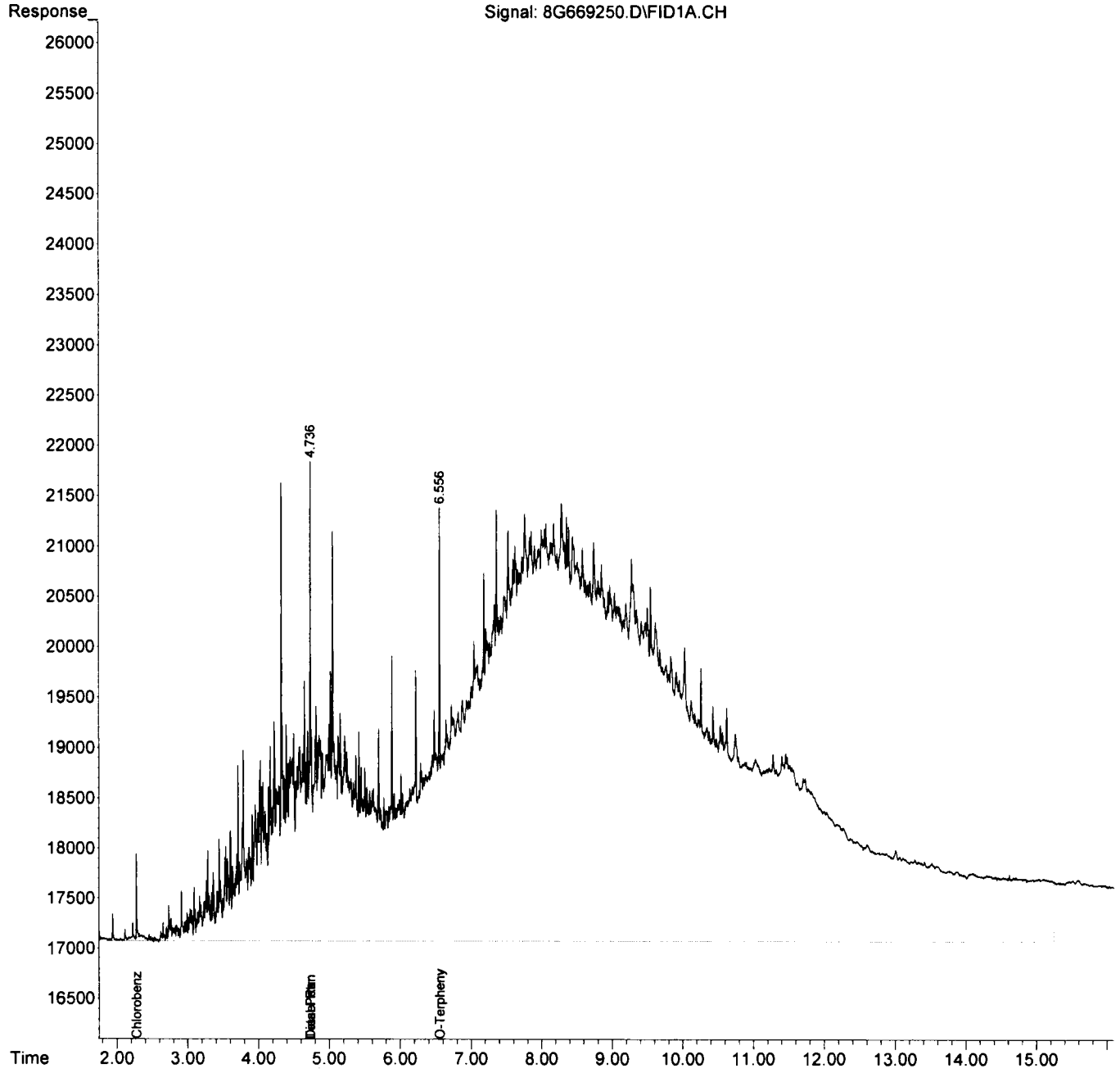
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669250.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 12:50:05
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-004(3X)
Misc : S.TPH:3
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 13:11:08 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-005
Client Id: SB-64SS(6')
Data File: 8G669247.D
Analysis Date: 10/20/22 11:32
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**70**	**190**				

Worksheet #: 661850 *Total Target Concentration* 190 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669247.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 11:32:39
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-005
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:59:22 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.274	16901	9.616		
23)	O-Terphenyl	6.551	41413	14.491		
24)d	Diesel Range Organics(T	6.551f	2023378	868.013		m
25)t	Total Petroleum Hydroca	6.551f	5871930	2576.696		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

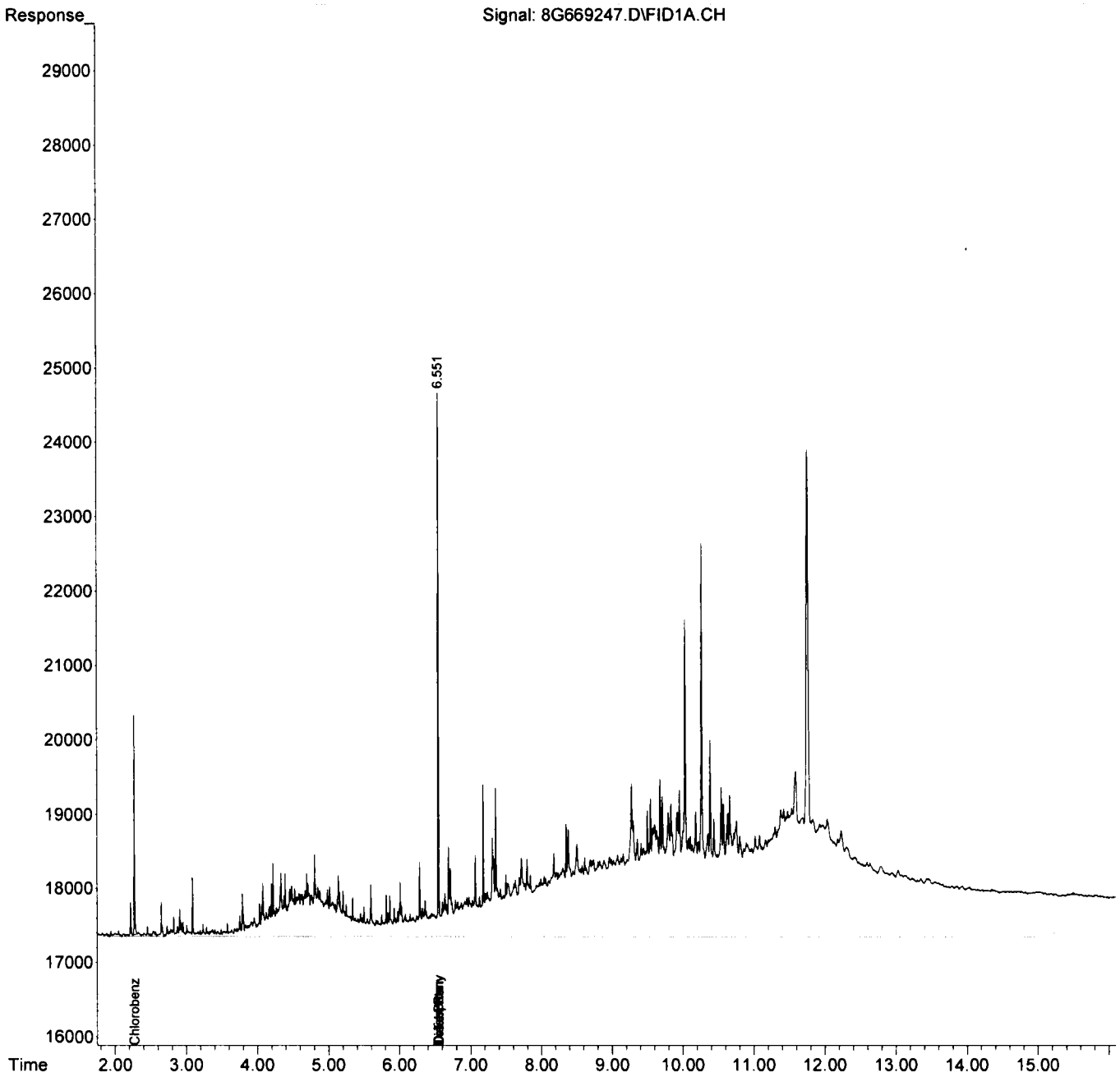
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669247.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 11:32:39
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-005
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:59:22 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-006(10X)
Client Id: SB-64SS(14-15')
Data File: 8G669249.D
Analysis Date: 10/20/22 12:24
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 10
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**750**	**8300**				

Worksheet #: 661850

Total Target Concentration 8300

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669249.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 12:24:03
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-006(10X)
Misc : S.TPH:10
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 12:44:22 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	4.326	7806781	3349.045		m
25)t	Total Petroleum Hydroca	4.326	13946830	6120.092		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

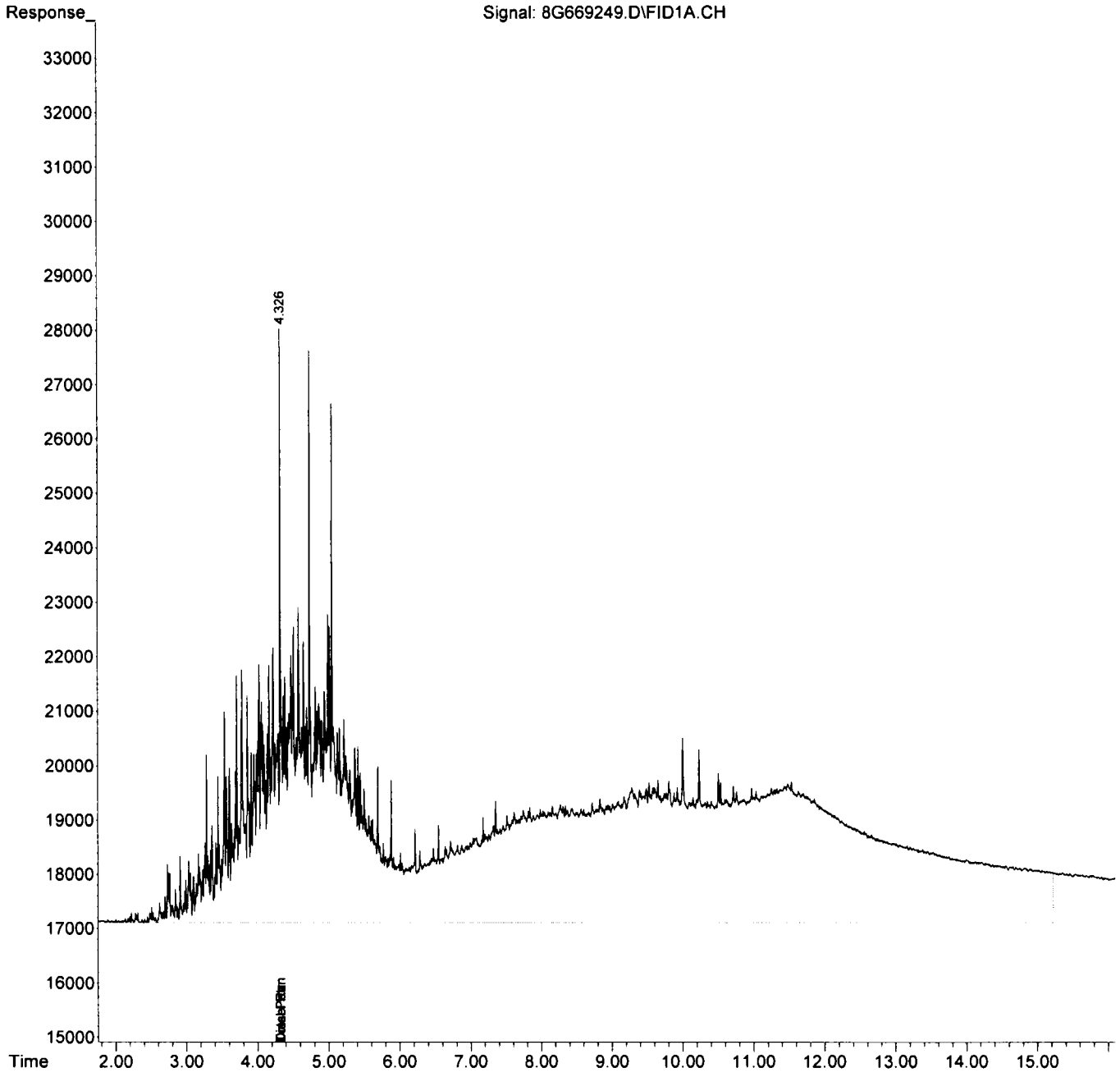
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669249.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 12:24:03
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-006(10X)
Misc : S.TPH:10
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 12:44:22 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD33806-007
Client Id: SB-67AS(8-10')
Data File: 8G669248.D
Analysis Date: 10/20/22 11:58
Date Rec/Extracted: 10/10/22-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	77	U				

Worksheet #: 661850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669248.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 11:58:31
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-007
Misc : S.TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 12:26:57 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.274	13728	7.811		
23)	O-Terphenyl	6.552	40899	14.311		
24)d	Diesel Range Organics(T	6.552f	320378	137.440		m
25)t	Total Petroleum Hydroca	6.552f	1827528	801.948		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

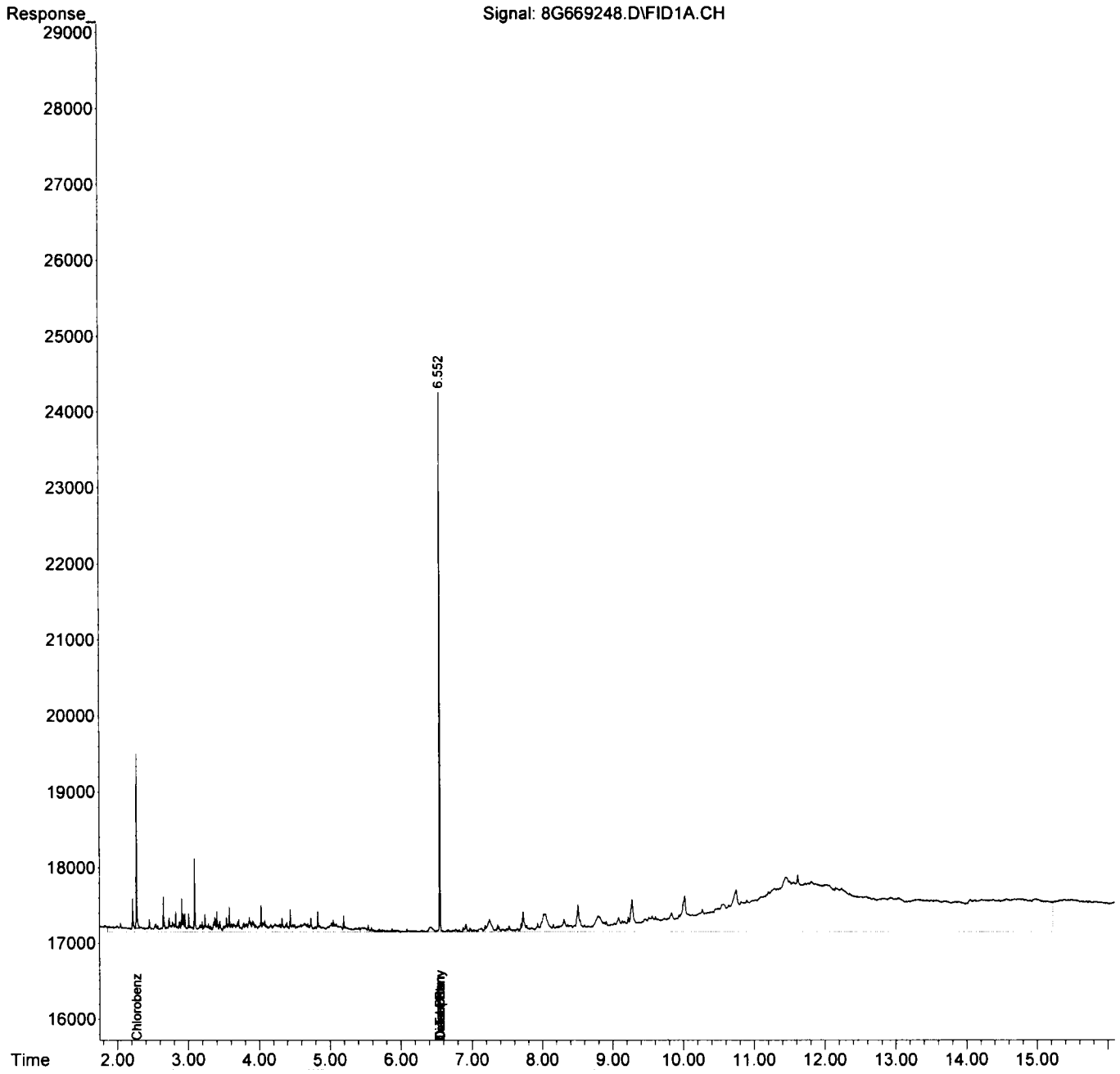
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669248.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 11:58:31
Operator : AH/ABM/RR/KT/JR
Sample : AD33806-007
Misc : S.TPH
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 12:26:57 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: SMB103354
Client Id:
Data File: 8G669241.D
Analysis Date: 10/20/22 08:57
Date Rec/Extracted: NA-10/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Soil
Initial Vol: 5g
Final Vol: 1ml
Dilution: 1
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	60	U				

Worksheet #: 661850

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669241.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 08:57:55
Operator : AH/ABM/RR/KT/JR
Sample : SMB103354
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 09:22:49 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.275	17763	10.107		
23)	O-Terphenyl	6.555	37324	13.060		
24)d	Diesel Range Organics(T	6.554f	137250	58.879		m
25)t	Total Petroleum Hydroca	6.554f	624940	274.234		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

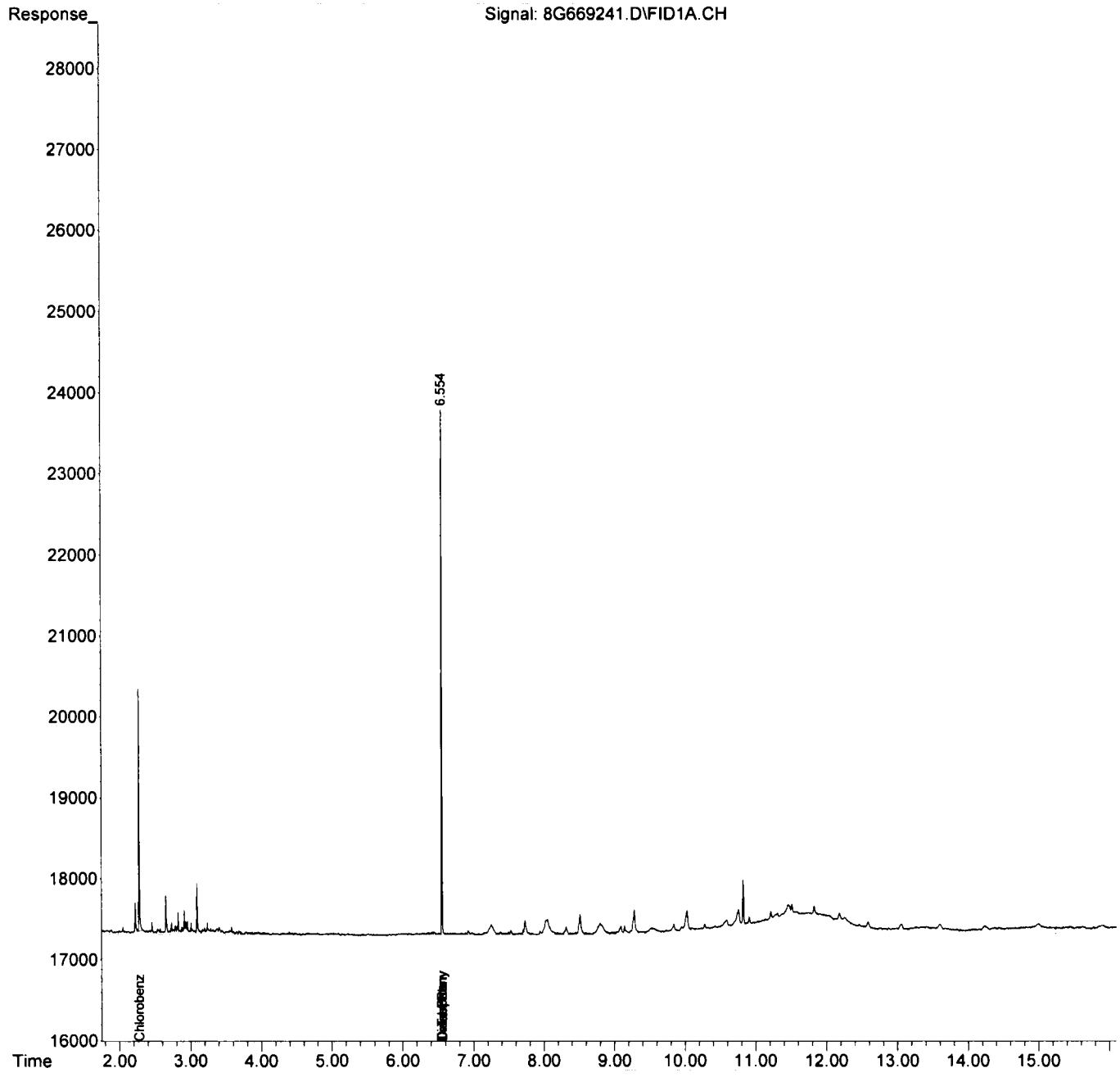
(f)=RT Delta > 1/2 Window (m)=manual int. KT

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669241.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 08:57:55
Operator : AH/ABM/RR/KT/JR
Sample : SMB103354
Misc : S.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 09:22:49 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669240.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 08:29:46
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 09:00:25 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		
2)mte	C9	0.000	0	N.D.		
3)mdte	C10	0.000	0	N.D.		
4)mdte	C12	0.000	0	N.D.		
5)mdte	C14	0.000	0	N.D.		
6)dte	C16	0.000	0	N.D.		
7)dte	C17	0.000	0	N.D.		
8)dte	Pristane	0.000	0	N.D.		
9)dte	C18	0.000	0	N.D.		
10)dte	Phytane	0.000	0	N.D.		
11)dte	C20	0.000	0	N.D.		
12)dte	C22	0.000	0	N.D.		
13)dte	C24	0.000	0	N.D.		
14)dte	C26	0.000	0	N.D.		
15)dte	C28	0.000	0	N.D.		
16)te	C30	0.000	0	N.D.		
17)te	C32	0.000	0	N.D.		
18)te	C34	0.000	0	N.D.		
19)te	C36	0.000	0	N.D.		
20)t	C40	0.000	0	N.D.		
21)t	C44	0.000	0	N.D.		
22)	Chlorobenzene	0.000	0	N.D.		
23)	O-Terphenyl	0.000	0	N.D.		
24)d	Diesel Range Organics(T	4.395	45289	19.429		m
25)t	Total Petroleum Hydroca	11.744f	534219	234.424		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		

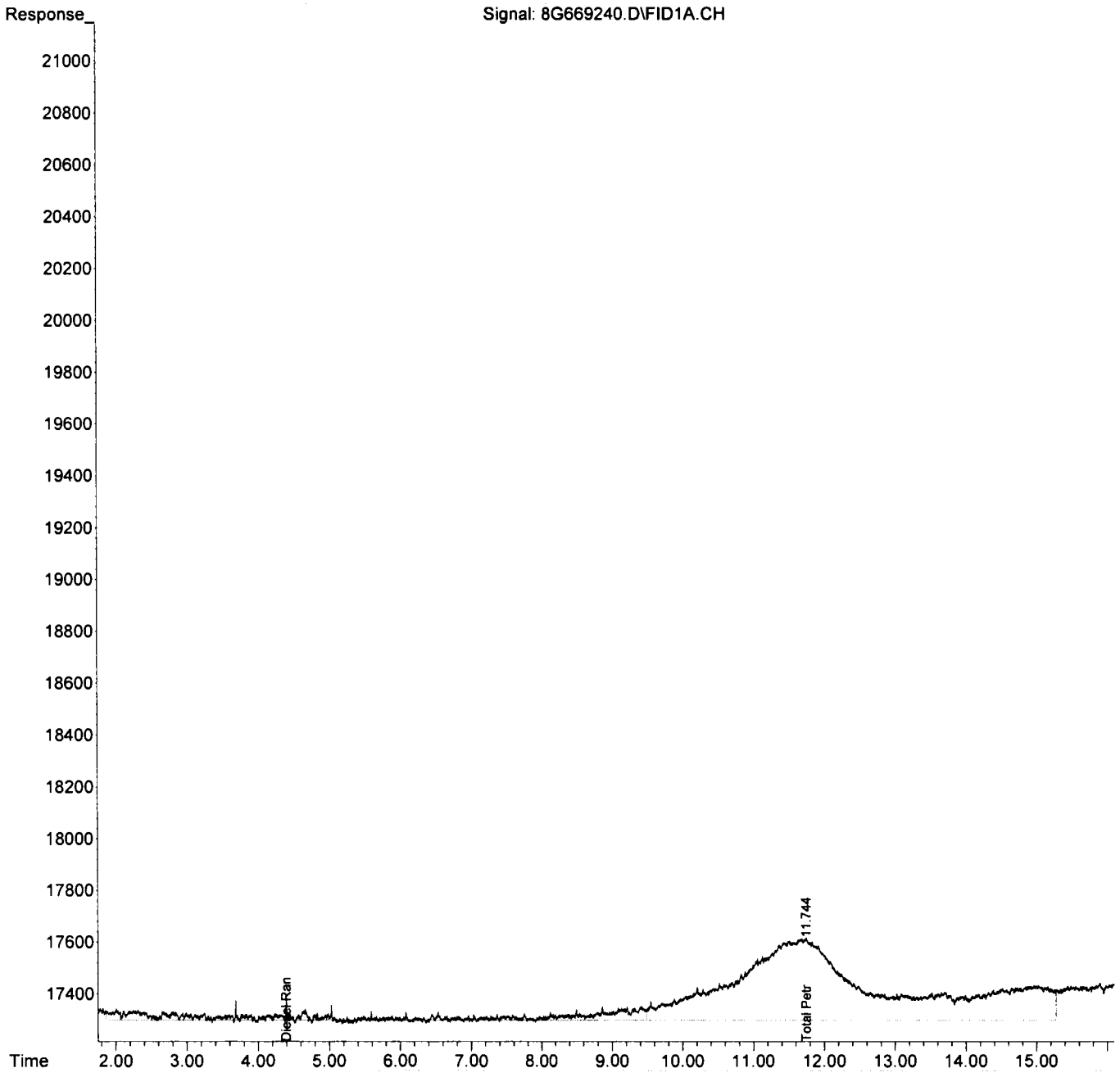
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\10-20-22\
Data File : 8G669240.D
Signal(s) : FID1A.CH
Acq On : 20-Oct-22, 08:29:46
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK(MECL2)
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 09:00:25 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669241.D	SMB103354	S	10/20/22 08:57	1		51	65				
8G669253.D	AD33806-001(MS)	S	10/20/22 14:07	1		48	68				
8G669254.D	AD33806-001(MSD)	S	10/20/22 14:32	1		45	68				
8G669243.D	AD33806-001	S	10/20/22 09:49	1		46	68				
8G669244.D	AD33806-002	S	10/20/22 10:15	1		36	77				
8G669245.D	AD33806-003	S	10/20/22 10:41	1		39	70				
8G669250.D	AD33806-004(3X)	S	10/20/22 12:50	3		45	78				
8G669247.D	AD33806-005	S	10/20/22 11:32	1		48	72				
8G669249.D	AD33806-006(10X)	S	10/20/22 12:24	10	SD	0*	0*				
8G669248.D	AD33806-007	S	10/20/22 11:58	1		39	72				
8G669242.D	SMB103354(MS)	S	10/20/22 09:23	1		33	64				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	20-117
S2=O-Terphenyl	20	30-146

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103354

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669242.D	SMB103354(MS)	10/20/2022 9:23:54 AM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669240.D	INST BLK(MECL2)	10/20/2022 8:29:46 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1732.3**	**0**	**3000**	**58**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: SMB103354

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669253.D	AD33806-001(MS)	10/20/2022 2:07:10 PM
Non Spike(If applicable):	8G669243.D	AD33806-001	10/20/2022 9:49:21 AM
Inst Blank(If applicable):	8G669240.D	INST BLK(MECL2)	10/20/2022 8:29:46 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2140.69**	**126.77**	**3000**	**67**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669254.D	AD33806-001(MSD)	10/20/2022 2:32:41 PM
Non Spike(If applicable):	8G669243.D	AD33806-001	10/20/2022 9:49:21 AM
Inst Blank(If applicable):	8G669240.D	INST BLK(MECL2)	10/20/2022 8:29:46 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**1917.61**	**126.77**	**3000**	**60**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: SMB103354

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669254.D	AD33806-001(MSD)	10/20/2022 2:32:41 PM
Duplicate(If applicable):	8G669253.D	AD33806-001(MS)	10/20/2022 2:07:10 PM
Inst Blank(If applicable):	8G669240.D	INST BLK(MECL2)	10/20/2022 8:29:46 AM

Method: 8015 Matrix: Soil Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**1917.61**	**2140.69**	**11**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: SMB103354
Blank Data File: 8G669241.D
Matrix: Soil

Blank Analysis Date: 10/20/22 08:57
Blank Extraction Date: 10/19/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33806-001	8G669243.D	10/20/22 09:49
AD33806-002	8G669244.D	10/20/22 10:15
AD33806-003	8G669245.D	10/20/22 10:41
AD33806-004(3X)	8G669250.D	10/20/22 12:50
AD33806-005	8G669247.D	10/20/22 11:32
AD33806-006(10X)	8G669249.D	10/20/22 12:24
AD33806-007	8G669248.D	10/20/22 11:58
AD33806-001(MSD	8G669254.D	10/20/22 14:32
AD33806-001(MS)	8G669253.D	10/20/22 14:07
SMB103354(MS)	8G669242.D	10/20/22 09:23

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669238.D	INST BLK(MECL2)	10/20/22 07:27	Aqueous					
8G669239.D	CALTPH@20PPM	10/20/22 07:38	Aqueous	8G66923	6.5812	0		
8G669240.D	INST BLK(MECL2)	10/20/22 08:29	Aqueous	8G66923	0.0000	200		
8G669241.D	SMB103354	10/20/22 08:57	Soil	8G66923	6.5547	0.4035		
8G669242.D	SMB103354(MS)	10/20/22 09:23	Soil	8G66923	6.5429	0.5837		
8G669243.D	AD33806-001	10/20/22 09:49	Soil	8G66923	6.5393	0.6387		
8G669244.D	AD33806-002	10/20/22 10:15	Soil	8G66923	6.5530	0.4294		
8G669245.D	AD33806-003	10/20/22 10:41	Soil	8G66923	6.5453	0.547		
8G669246.D	AD33806-004	10/20/22 11:06	Soil	8G66923	6.5493	0.4859		
8G669247.D	AD33806-005	10/20/22 11:32	Soil	8G66923	6.5510	0.4599		
8G669248.D	AD33806-007	10/20/22 11:58	Soil	8G66923	6.5524	0.4386		
8G669249.D	AD33806-006(10X)	10/20/22 12:24	Soil	8G66923	0.0000	200		
8G669250.D	AD33806-004(3X)	10/20/22 12:50	Soil	8G66923	6.5562	0.3806		
8G669251.D	AD33894-002	10/20/22 13:15	Soil	8G66923	6.5441	0.5653		
8G669252.D	AD33894-004	10/20/22 13:41	Soil	8G66923	6.5493	0.4859		
8G669253.D	AD33806-001(MS)	10/20/22 14:07	Soil	8G66923	6.5526	0.4355		
8G669254.D	AD33806-001(MSD)	10/20/22 14:32	Soil	8G66923	6.5633	0.2724		
8G669255.D	CALTPH@20PPM	10/20/22 14:58	Aqueous	8G66923	6.5705	0.1627		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101107 0169

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pch/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			8G669239.D			8G669255.D										
Method:			8015			8015										
Calibration Name:			CALTPH@20PPM			CALTPH@20PPM										
Calibration Date/Time			10/20/22 07:38			10/20/22 14:58										
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	21.26	20	6.3	21.09	20	5.5									
C9	20	1	0	20.93	20	4.7	21.22	20	6.1									
C10	20	1	0	20.43	20	2.2	20.67	20	3.4									
C12	20	1	0	20.38	20	1.9	20.5	20	2.5									
C14	20	1	0	20.24	20	1.2	20.34	20	1.7									
C16	20	1	0	19.93	20	0.3	20.06	20	0.3									
C17	20	1	0	15.95	20	20.3	23.54	20	17.7									
Pristane	20	1	0	19.22	20	3.9	19.94	20	0.3									
C18	20	1	0	19.76	20	1.2	19.78	20	1.1									
Phytane	20	1	0	19.98	20	0.1	19.91	20	0.5									
C20	20	1	0	19.9	20	0.5	19.95	20	0.2									
C22	20	1	0	20.14	20	0.7	20.5	20	2.5									
C24	20	1	0	20.27	20	1.4	19.88	20	0.6									
C26	20	1	0	20.22	20	1.1	19.79	20	1.0									
C28	20	1	0	20.31	20	1.5	19.8	20	1.0									
C30	20	1	0	20.46	20	2.3	19.53	20	2.3									
C32	20	1	0	20.2	20	1.0	19.33	20	3.4									
C34	20	1	0	19.46	20	2.7	18.95	20	5.2									
C36	20	1	0	17.99	20	10.1	17.75	20	11.3									
C40	20	1	0	14.96	20	25.2*	14.92	20	25.4*									
C44	20	1	0	13.26	20	33.7*	13.39	20	33.1*									
Chlorobenzene	20	1	0	21.03	20	5.2	21.44	20	7.2									
O-Terphenyl	20	1	0	19.94	20	0.3	20	20	0.0									
Average Difference	20	1	0			5.5			5.7									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.58	(6.54 - 6.62)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD33806-001
Client Id: SB-62SS(6')
Data File: 13M25871.D
Analysis Date: 10/14/22 23:51
Date Rec/Extracted: 10/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 94

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	27	U				

Worksheet #: 661753

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25871.D
Signal(s) : FID1A.CH
Acq On : 14 Oct 2022 23:51
Operator : WP
Sample : AD33806-001
Misc : M,MEXT!7
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 15 00:28:49 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.668f	4325	21.199		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

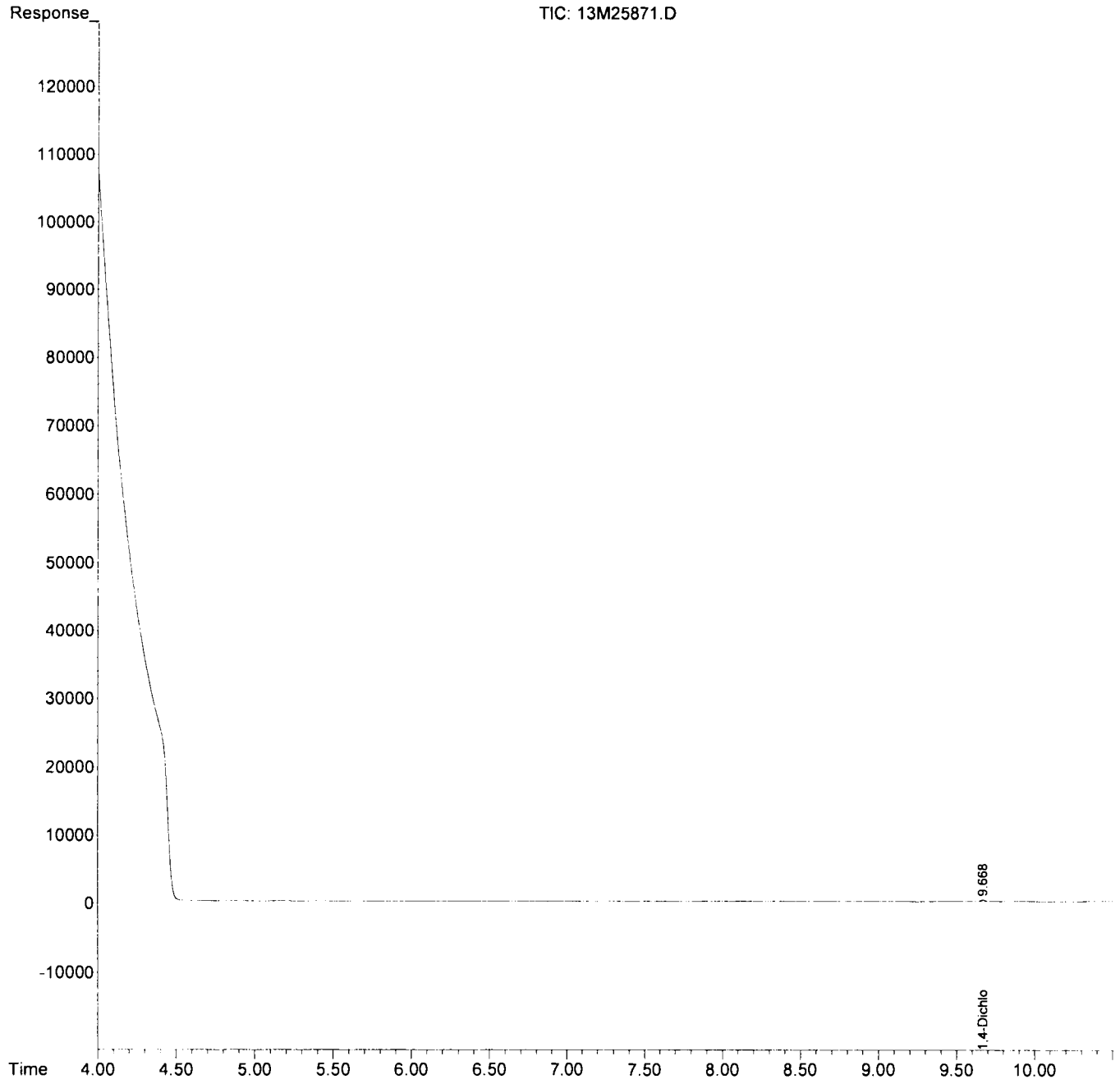
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25871.D
Signal(s) : FID1A.CH
Acq On : 14 Oct 2022 23:51
Operator : WP
Sample : AD33806-001
Misc : M,MEXT!7
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 15 00:28:49 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33806-002
Client Id: SB-62SS(14'-16')
Data File: 13M25872.D
Analysis Date: 10/15/22 00:07
Date Rec/Extracted: 10/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.63g:10ml
Final Vol: NA
Dilution: 88.8
Solids: 82

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**27**	**260**				

Worksheet #: 661753 ***Total Target Concentration*** 260 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25872.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2022 00:07
Operator : WP
Sample : AD33806-002
Misc : M,MEXT!7
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:32:47 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.727	8874	43.493		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	9.572	549863	2438.839	ug/L	m

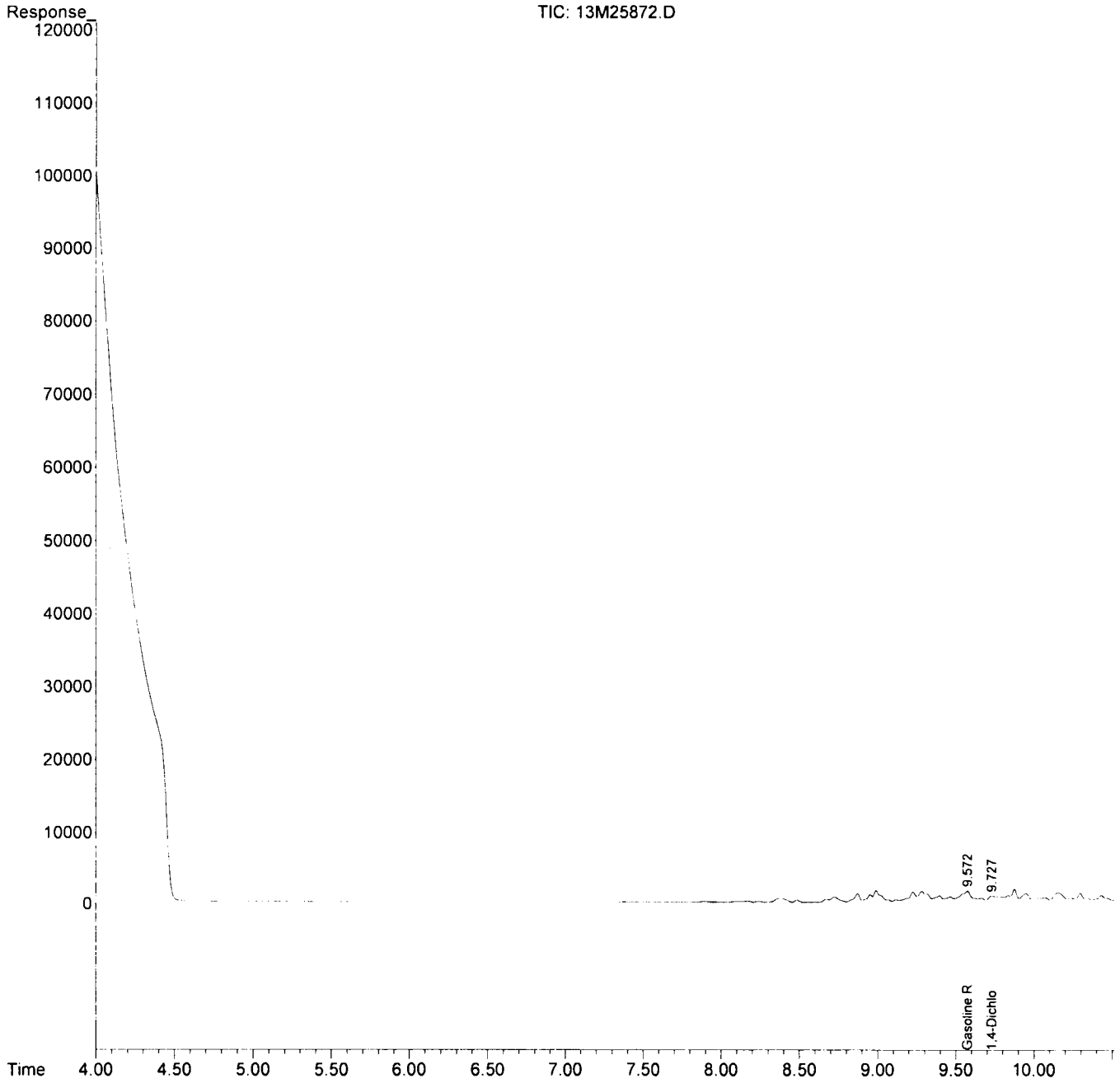
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25872.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2022 00:07
Operator : WP
Sample : AD33806-002
Misc : M,MEXT!7
ALS Vial : 13 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:32:47 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33806-003
Client Id: SB-63SS(6')
Data File: 13M25886.D
Analysis Date: 10/17/22 18:33
Date Rec/Extracted: 10/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.55g:10ml
Final Vol: NA
Dilution: 90.1
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	29	U				

Worksheet #: 661753 *Total Target Concentration* 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25886.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 18:33
Operator : WP
Sample : AD33806-003
Misc : M,MEXT!9
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 19:19:00 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.675f	5783	28.344	m
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L

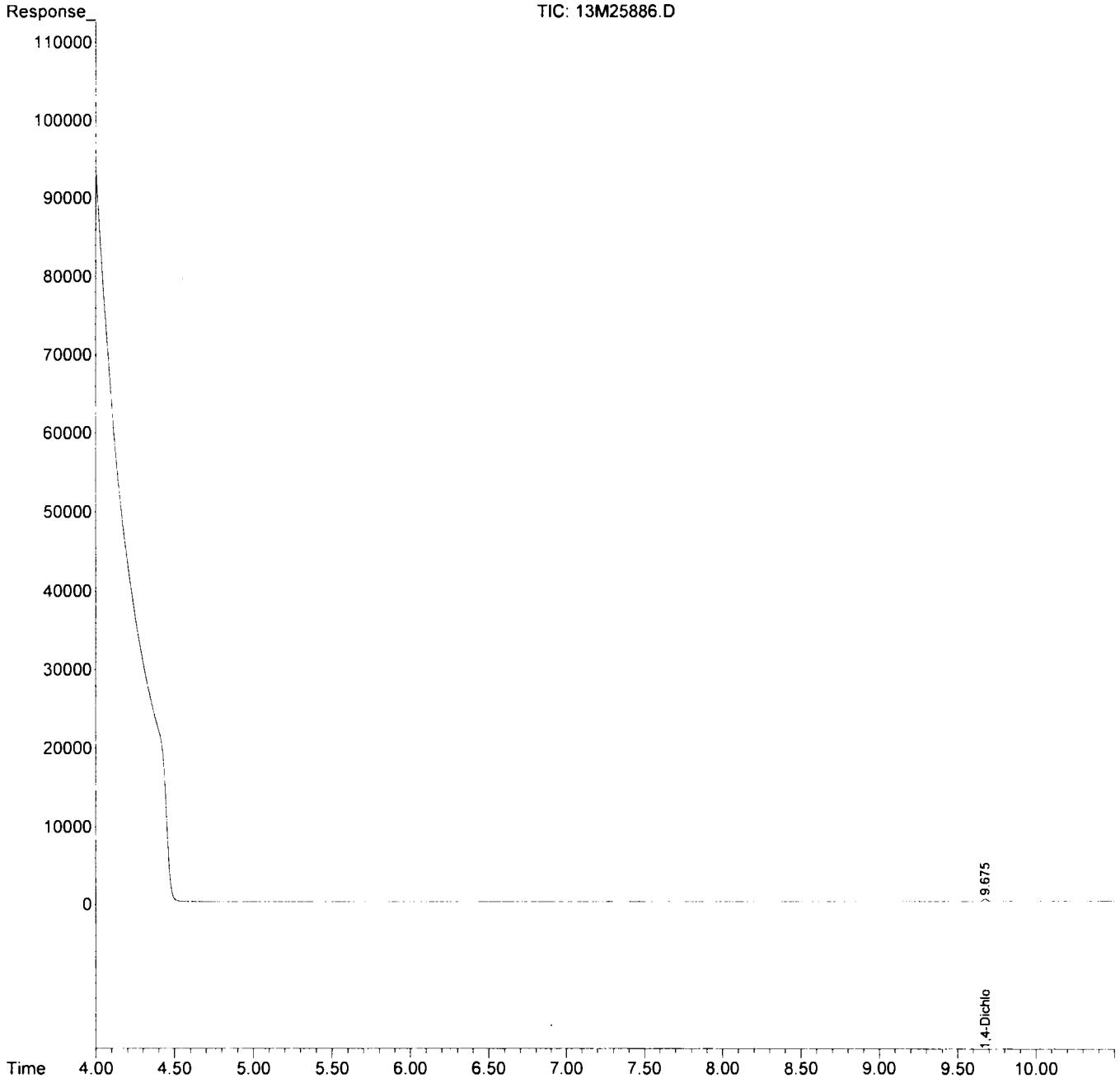
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25886.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 18:33
Operator : WP
Sample : AD33806-003
Misc : M,MEXT!9
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 19:19:00 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33806-004
Client Id: SB-63SS(14')
Data File: 13M25874.D
Analysis Date: 10/15/22 00:40
Date Rec/Extracted: 10/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.31g:10ml
Final Vol: NA
Dilution: 94.2
Solids: 77

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	31	U				

Worksheet #: 661753

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25874.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2022 00:40
Operator : WP
Sample : AD33806-004
Misc : M,MEXT!9
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:33:43 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.660f	4737	23.214		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	d

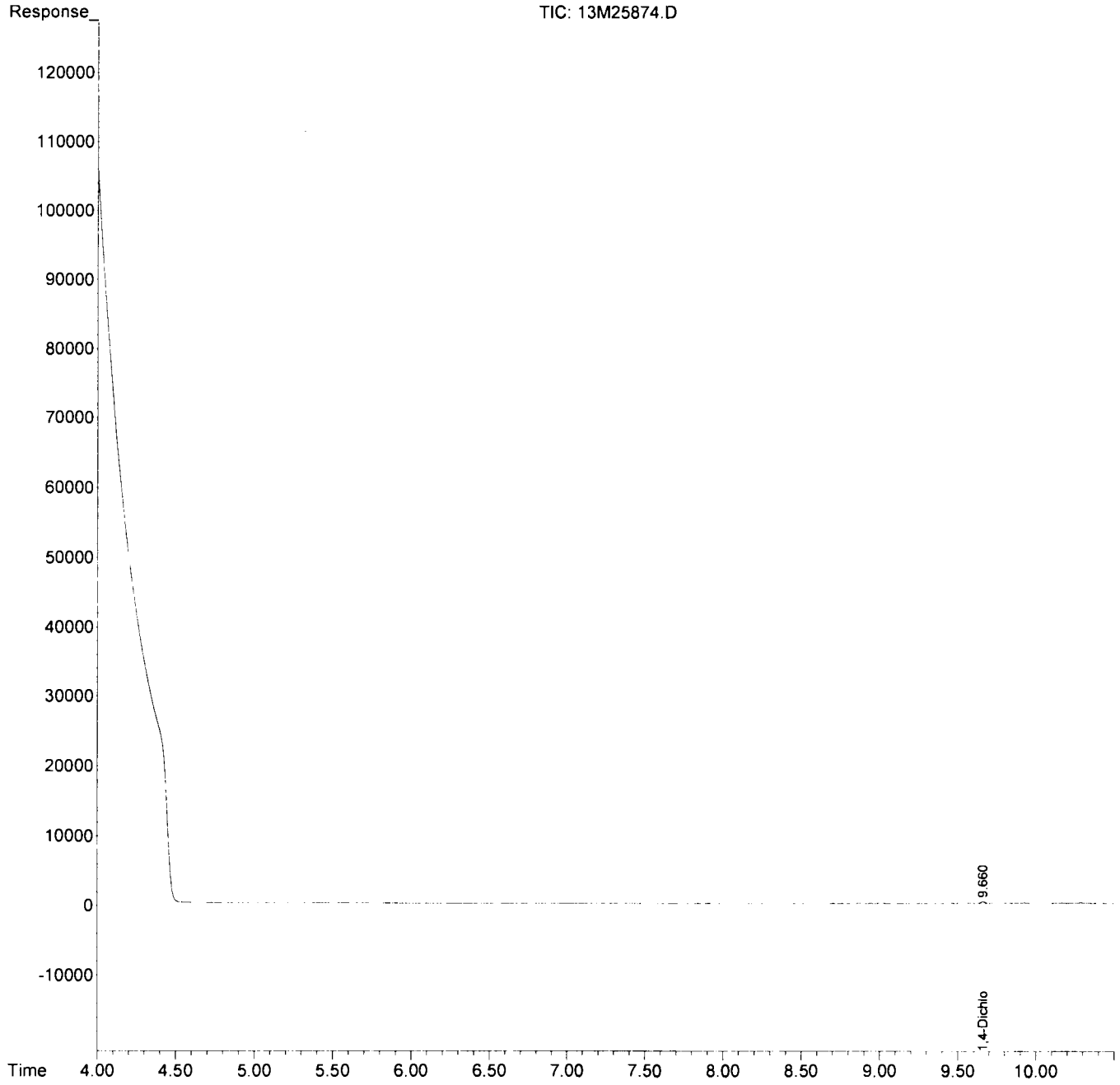
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25874.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2022 00:40
Operator : WP
Sample : AD33806-004
Misc : M,MEXT!9
ALS Vial : 15 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:33:43 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33806-005
Client Id: SB-64SS(6')
Data File: 13M25875.D
Analysis Date: 10/15/22 01:02
Date Rec/Extracted: 10/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5.18g:10ml
Final Vol: NA
Dilution: 96.5
Solids: 86

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	28	U				

Worksheet #: 661753

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25875.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2022 1:02
Operator : WP
Sample : AD33806-005
Misc : M,MEXT!9
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 15 01:19:24 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.675f	5486	26.886		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

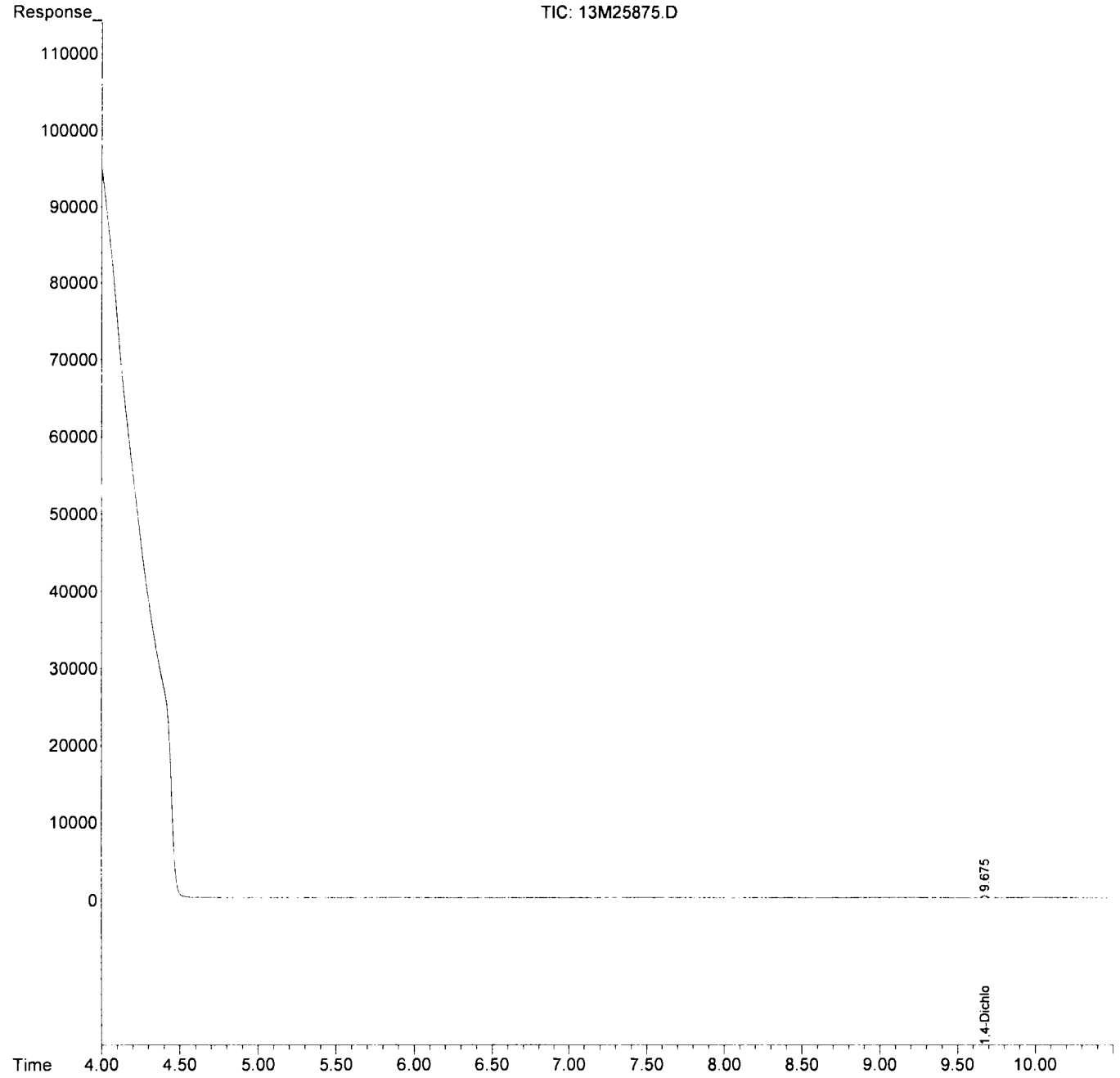
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25875.D
Signal(s) : FID1A.CH
Acq On : 15 Oct 2022 1:02
Operator : WP
Sample : AD33806-005
Misc : M,MEXT!9
ALS Vial : 16 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 15 01:19:24 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33806-006(80uL)
Client Id: SB-64SS(14-15')
Data File: 13M25890.D
Analysis Date: 10/17/22 19:38
Date Rec/Extracted: 10/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 1.42g:10ml
Final Vol: NA
Dilution: 3520
Solids: 80

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**1100**	**5700**				

Worksheet #: 661753

Total Target Concentration 5700

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25890.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 19:38
Operator : WP
Sample : AD33806-006(80uL)
Misc : M,MEXT!4
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:34:39 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.730	8631	42.300		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	9.283	294172	1304.757	ug/L	m

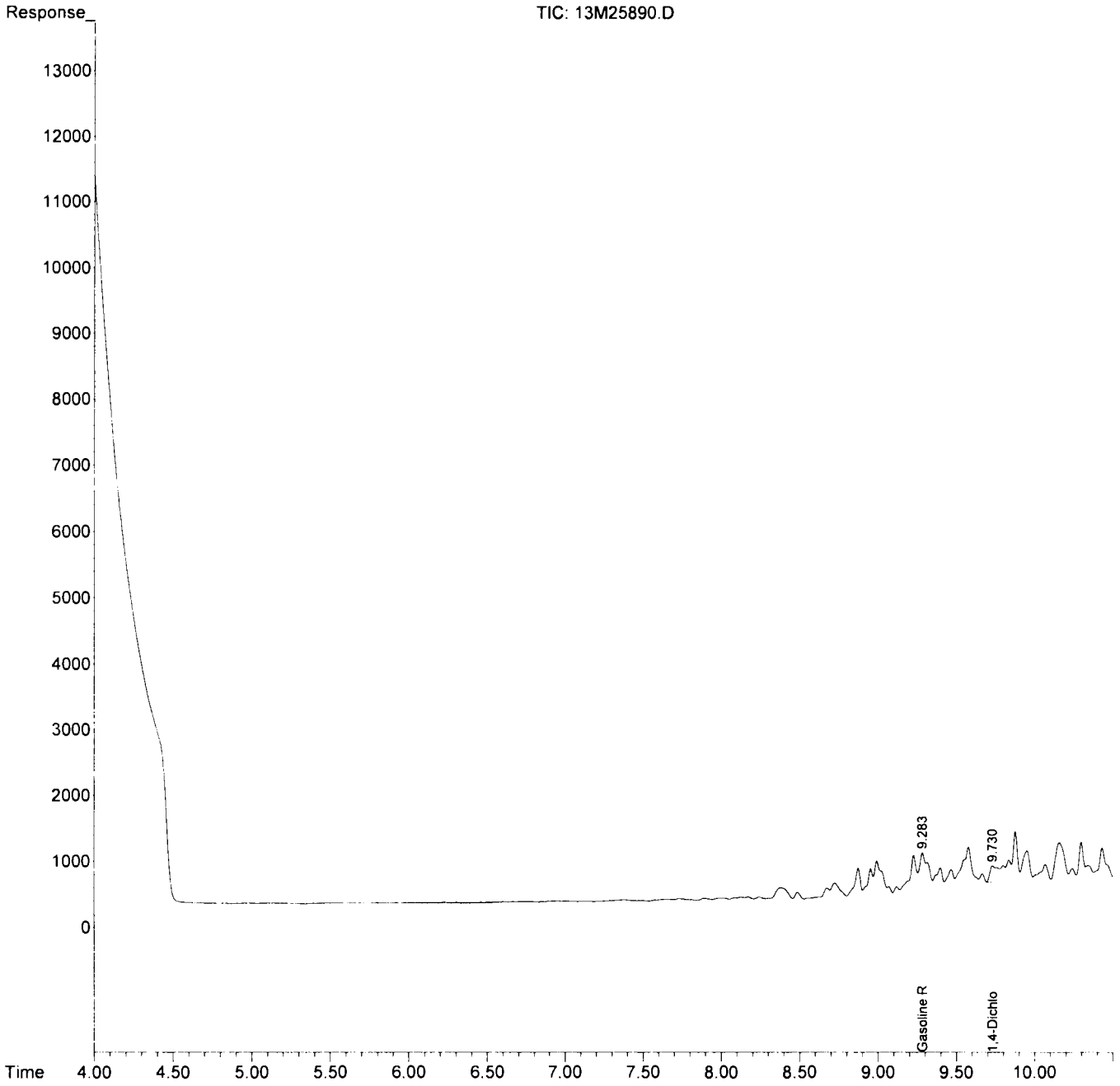
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25890.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 19:38
Operator : WP
Sample : AD33806-006(80uL)
Misc : M,MEXT!4
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 20 11:34:39 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD33806-007
Client Id: SB-67AS(8-10')
Data File: 13M25863.D
Analysis Date: 10/14/22 21:20
Date Rec/Extracted: 10/10/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g: 10ml
Final Vol: NA
Dilution: 100
Solids: 78

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	32	U				

Worksheet #: 661753

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25863.D
Signal(s) : FID1A.CH
Acq On : 14 Oct 2022 21:20
Operator : AB
Sample : AD33806-007
Misc : M,MEXT!1
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 14 21:36:16 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.676f	1213	5.947		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

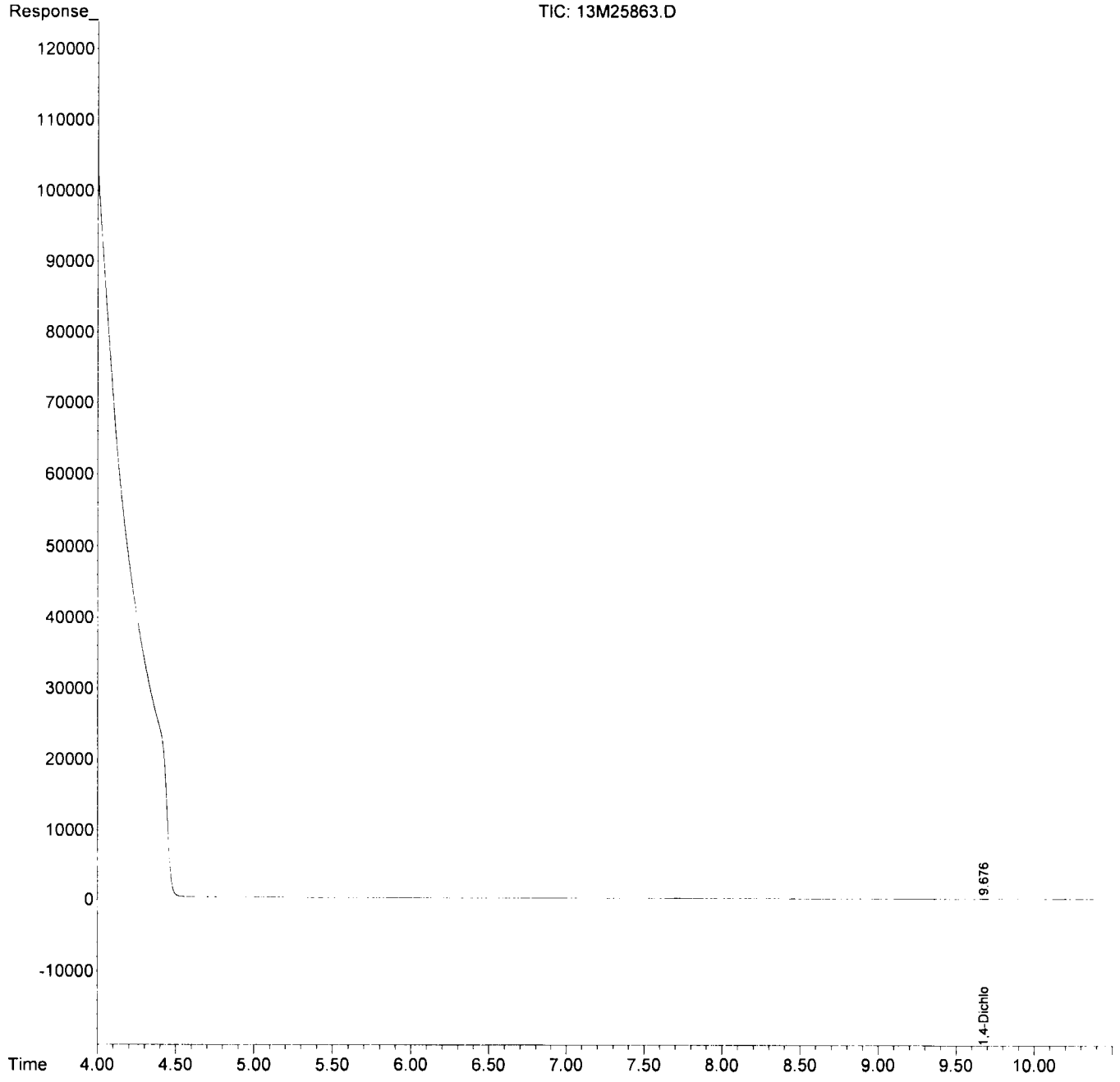
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25863.D
Signal(s) : FID1A.CH
Acq On : 14 Oct 2022 21:20
Operator : AB
Sample : AD33806-007
Misc : M,MEXT!1
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 14 21:36:16 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M25861.D
Analysis Date: 10/14/22 20:09
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 661753

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25861.D
Signal(s) : FID1A.CH
Acq On : 14 Oct 2022 20:09
Operator : AB
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 14 20:49:41 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.683	6254	30.648		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

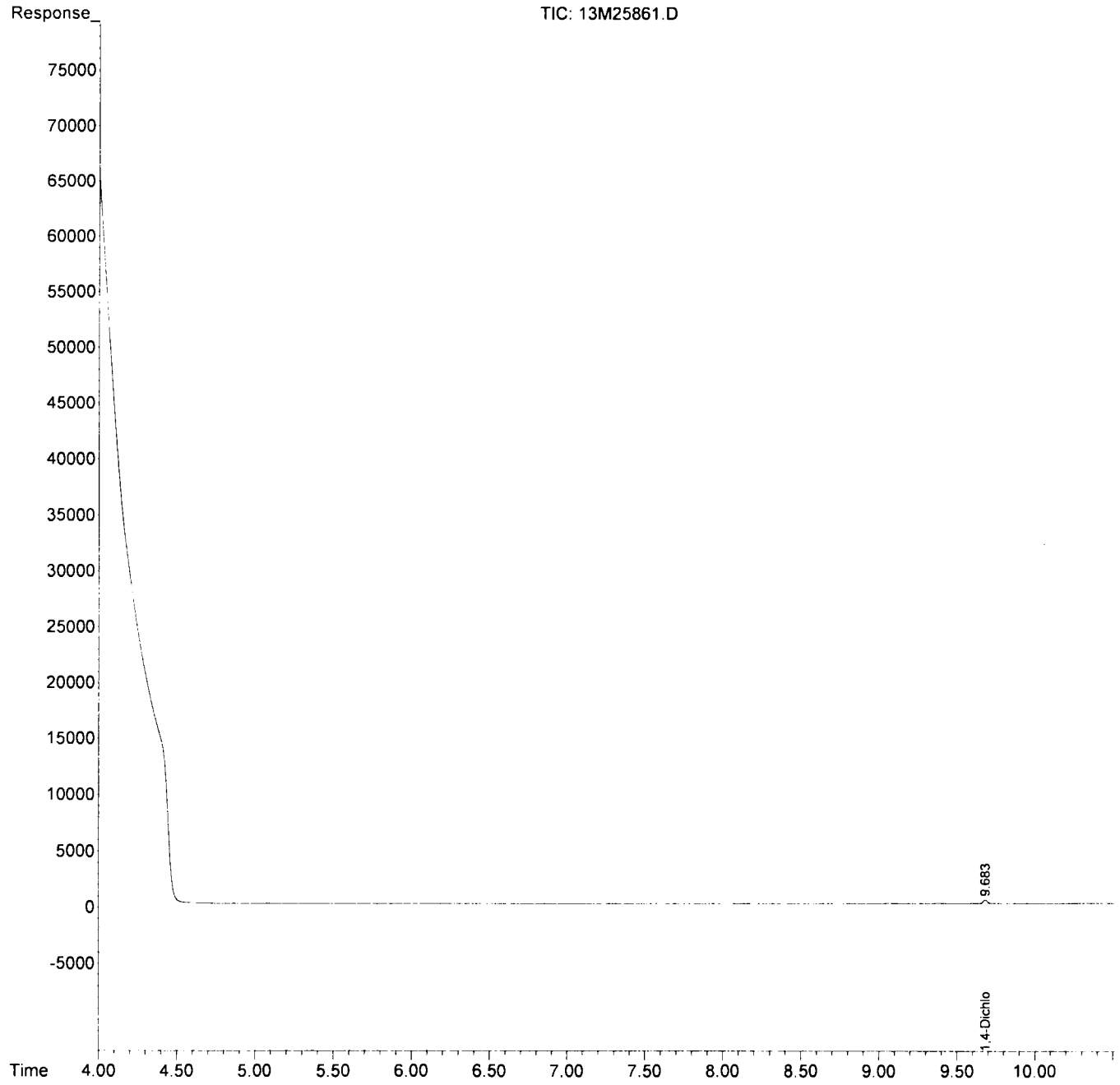
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-14-22\
Data File : 13M25861.D
Signal(s) : FID1A.CH
Acq On : 14 Oct 2022 20:09
Operator : AB
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 14 20:49:41 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M25884.D
Analysis Date: 10/17/22 17:58
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Methanol
Initial Vol: 5g:10ml
Final Vol: NA
Dilution: 100
Solids: 100

Units: mg/Kg

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	25	U				

Worksheet #: 661753

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25884.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 17:58
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 18:11:33 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.680	5885	28.840		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L	

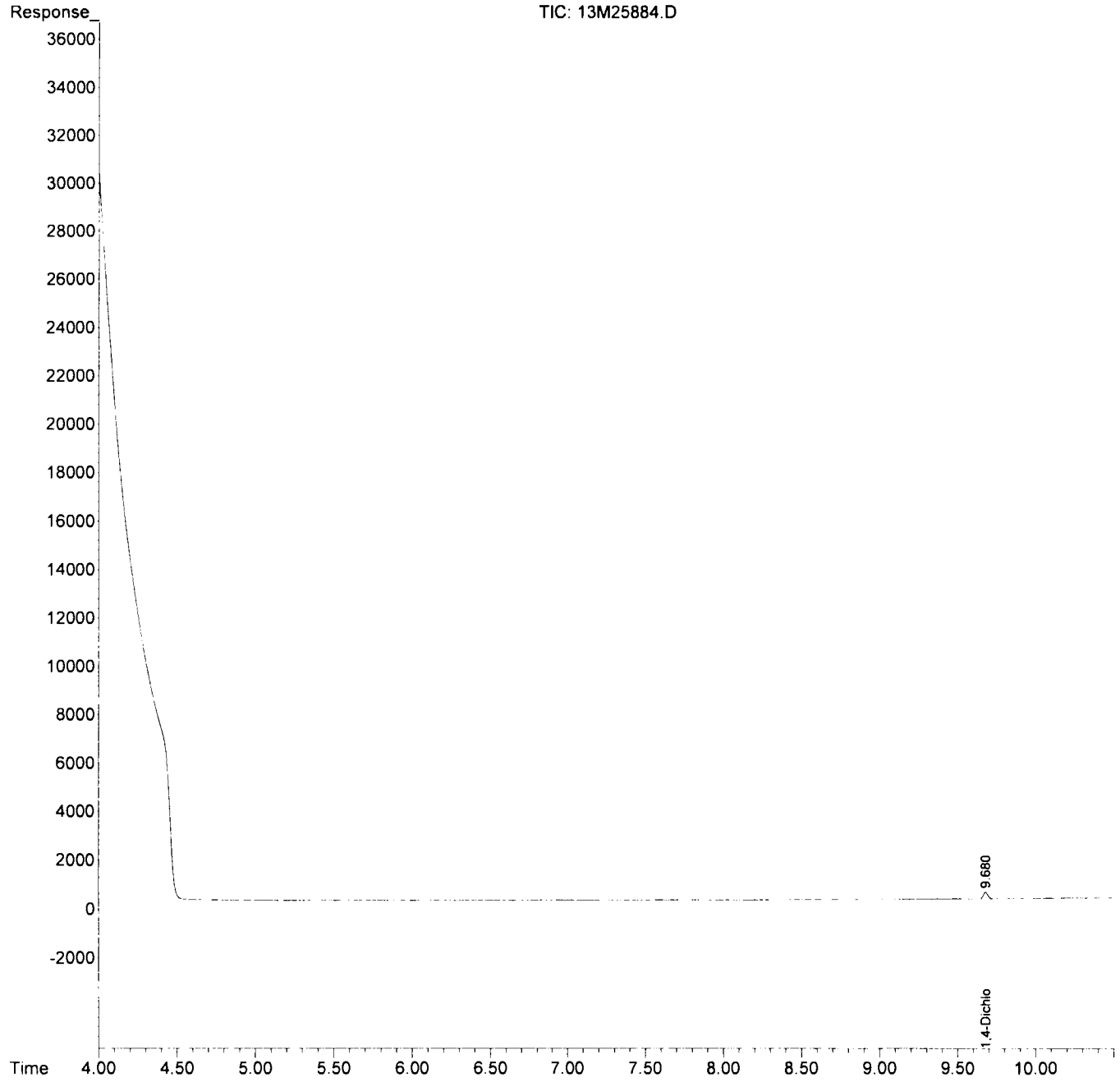
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\10-17-22\
Data File : 13M25884.D
Signal(s) : FID1A.CH
Acq On : 17 Oct 2022 17:58
Operator : WP
Sample : DAILY BLANK
Misc : M,MEOH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Oct 17 18:11:33 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G0720.M
Quant Title : @GC_13,ug,8015
QLast Update : Thu Sep 22 14:32:08 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M25861.D	DAILY BLANK	M	10/14/22 20:09	1		102					
13M25884.D	DAILY BLANK	M	10/17/22 17:58	1		96					
13M25871.D	AD33806-001	M	10/14/22 23:51	1		71					
13M25872.D	AD33806-002	M	10/15/22 00:07	1		145					
13M25886.D	AD33806-003	M	10/17/22 18:33	1		94					
13M25874.D	AD33806-004	M	10/15/22 00:40	1		77					
13M25875.D	AD33806-005	M	10/15/22 01:02	1		90					
13M25890.D	AD33806-006(80uL)	M	10/17/22 19:38	1		141					
13M25863.D	AD33806-007	M	10/14/22 21:20	1		20*					
13M25869.D	AD33806-007	M	10/14/22 23:15	1		154*					
13M25864.D	MBS105000	M	10/14/22 21:52	1		73					
13M25865.D	AD33825-009(MS)	M	10/14/22 22:09	1		92					
13M25866.D	AD33825-009(MSD)	M	10/14/22 22:26	1		87					
13M25870.D	AD33825-009	M	10/14/22 23:31	1		62					
13M25885.D	AD33806-004	M	10/17/22 18:18	1		68					
13M25888.D	AD33806-004(MS)	M	10/17/22 19:08	1		95					
13M25889.D	AD33806-004(MSD)	M	10/17/22 19:23	1		91					
13M25891.D	MBS105010	M	10/17/22 20:05	1		99					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Soil Laboratory Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105000

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25864.D	MBS105000	10/14/2022 9:52:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1859.85**	**0**	**2000**	**93**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105000

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25865.D	AD33825-009(MS)	10/14/2022 10:09:00 P
Non Spike(If applicable):	13M25870.D	AD33825-009	10/14/2022 11:31:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2221.92**	**0**	**2000**	**111**	**11**	**181**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25866.D	AD33825-009(MSD)	10/14/2022 10:26:00 P
Non Spike(If applicable):	13M25870.D	AD33825-009	10/14/2022 11:31:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1953.96**	**0**	**2000**	**98**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105000

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25866.D	AD33825-009(MSD)	10/14/2022 10:26:00 P
Duplicate(If applicable):	13M25865.D	AD33825-009(MS)	10/14/2022 10:09:00 P
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	1	1953.96	2221.92	13	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25891.D	MBS105010	10/17/2022 8:05:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2193.68**	**0**	**2000**	**110**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25888.D	AD33806-004(MS)	10/17/2022 7:08:00 PM
Non Spike(If applicable):	13M25885.D	AD33806-004	10/17/2022 6:18:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**3613.4**	**0**	**2000**	**181**	**11**	**181**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25889.D	AD33806-004(MSD)	10/17/2022 7:23:00 PM
Non Spike(If applicable):	13M25885.D	AD33806-004	10/17/2022 6:18:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2324.79**	**0**	**2000**	**116**	**11**	**181**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105010

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M25889.D	AD33806-004(MSD)	10/17/2022 7:23:00 PM
Duplicate(If applicable):	13M25888.D	AD33806-004(MS)	10/17/2022 7:08:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Methanol Units: mg/Kg QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**2324.79**	**3613.4**	**43***	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M25861.D
Matrix: Methanol

Blank Analysis Date: 10/14/22 20:09
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33806-001	13M25871.D	10/14/22 23:51
AD33806-002	13M25872.D	10/15/22 00:07
AD33806-004	13M25874.D	10/15/22 00:40
AD33806-005	13M25875.D	10/15/22 01:02
AD33806-007	13M25863.D	10/14/22 21:20
AD33825-009(MSD	13M25866.D	10/14/22 22:26
AD33825-009(MS)	13M25865.D	10/14/22 22:09
MBS105000	13M25864.D	10/14/22 21:52
AD33825-009	13M25870.D	10/14/22 23:31

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M25884.D
Matrix: Methanol

Blank Analysis Date: 10/17/22 17:58
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD33806-003	13M25886.D	10/17/22 18:33
AD33806-006(80uL	13M25890.D	10/17/22 19:38
MBS105010	13M25891.D	10/17/22 20:05
AD33806-004(MSD	13M25889.D	10/17/22 19:23
AD33806-004(MS)	13M25888.D	10/17/22 19:08
AD33806-004	13M25885.D	10/17/22 18:18

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M25297.D	2000	07/20/22 09:07	Aqueous					
13M25302.D	CAL @ 250 PPB	07/20/22 11:20	Aqueous	13M2530	9.7810	0.2889		
13M25303.D	CAL @ 500 PPB	07/20/22 11:36	Aqueous	13M2530	9.7872	0.2256		
13M25304.D	CAL @ 750 PPB	07/20/22 11:53	Aqueous	13M2530	9.8025	0.0694		
13M25305.D	CAL @ 1000 PPB	07/20/22 12:09	Aqueous	13M2530	9.8046	0.0479		
13M25306.D	CAL @ 1500 PPB	07/20/22 12:26	Aqueous	13M2530	9.8262	0.1721		
13M25307.D	CAL @ 2000 PPB	07/20/22 12:42	Aqueous	13M2530	9.8004	0.0908		
13M25308.D	CAL @ 4000 PPB	07/20/22 12:59	Aqueous	13M2530	9.8093	0		
13M25311.D	ICV	07/20/22 13:49	Aqueous	13M2530	9.8304	0.2149		
13M25312.D	2000 PPB	07/20/22 14:07	Aqueous	13M2530	9.8252	0.162		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M25859.D	CAL @ 2000 PPB	10/14/22 19:22	Aqueous	13M2585	9.6858	0		
13M25860.D	BLK	10/14/22 19:38	Methanol	13M2585	9.6746	0.1157		
13M25861.D	DAILY BLANK	10/14/22 20:09	Methanol	13M2585	9.6829	0.0299		
13M25862.D	AD33825-009	10/14/22 21:03	Methanol	13M2585	9.6933	0.0774		
13M25863.D	AD33806-007	10/14/22 21:20	Methanol	13M2585	9.6757	0.1043		
13M25864.D	MBS105000	10/14/22 21:52	Methanol	13M2585	9.6888	0.031		
13M25865.D	AD33825-009(MS)	10/14/22 22:09	Methanol	13M2585	9.6788	0.0723		
13M25866.D	AD33825-009(MSD)	10/14/22 22:26	Methanol	13M2585	9.6743	0.1188		
13M25867.D	BLK	10/14/22 22:41	Aqueous	13M2585	9.6650	0.215		
13M25868.D	AD33825-009	10/14/22 22:56	Methanol	13M2585	9.6651	0.2139		
13M25869.D	AD33806-007	10/14/22 23:15	Methanol	13M2585	9.6715	0.1477		
13M25870.D	AD33825-009	10/14/22 23:31	Methanol	13M2585	9.6674	0.1901		
13M25871.D	AD33806-001	10/14/22 23:51	Methanol	13M2585	9.6683	0.1808		
13M25872.D	AD33806-002	10/15/22 00:07	Methanol	13M2585	9.7275	0.4296		
13M25873.D	AD33806-003	10/15/22 00:24	Methanol	13M2585	9.6640	0.2253		
13M25874.D	AD33806-004	10/15/22 00:40	Methanol	13M2585	9.6601	0.2657		
13M25875.D	AD33806-005	10/15/22 01:02	Methanol	13M2585	9.6748	0.1136		
13M25876.D	AD33806-006	10/15/22 01:17	Methanol	13M2585	9.7261	0.4152		
13M25878.D	CAL @ 2000 PPB	10/15/22 01:50	Aqueous	13M2585	9.6724	0.1384		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M25881.D	CAL @ 2000 PPB	10/17/22 17:12	Aqueous	13M2588	9.6937	0		
13M25884.D	DAILY BLANK	10/17/22 17:58	Methanol	13M2588	9.6796	0.1456		
13M25885.D	AD33806-004	10/17/22 18:18	Methanol	13M2588	9.6871	0.0681		
13M25886.D	AD33806-003	10/17/22 18:33	Methanol	13M2588	9.6750	0.1931		
13M25887.D	AD33806-006	10/17/22 18:48	Methanol	13M2588	9.7328	0.4025		
13M25888.D	AD33806-004(MS)	10/17/22 19:08	Methanol	13M2588	9.6840	0.1001		
13M25889.D	AD33806-004(MSD)	10/17/22 19:23	Methanol	13M2588	9.6724	0.22		
13M25890.D	AD33806-006(80uL)	10/17/22 19:38	Methanol	13M2588	9.7300	0.3738		
13M25891.D	MBS105010	10/17/22 20:05	Methanol	13M2588	9.6813	0.128		
13M25892.D	MBS105011	10/17/22 20:28	Methanol	13M2588	0.0000	200		
13M25893.D	BLK	10/17/22 20:46	Aqueous	13M2588	0.0000	200		
13M25894.D	AD33808-001	10/17/22 21:04	Methanol	13M2588	9.6648	0.2986		
13M25895.D	AD33808-002	10/17/22 21:22	Methanol	13M2588	9.7538	0.6181		
13M25896.D	AD33808-003	10/17/22 21:41	Methanol	13M2588	9.6708	0.2365		
13M25897.D	AD33808-004	10/17/22 21:57	Methanol	13M2588	9.6646	0.3006		
13M25898.D	AD33808-005	10/17/22 22:12	Methanol	13M2588	9.6629	0.3182		
13M25899.D	AD33892-001	10/17/22 22:27	Methanol	13M2588	9.6646	0.3006		
13M25900.D	AD33892-002	10/17/22 22:43	Methanol	13M2588	9.6758	0.1848		
13M25901.D	AD33894-002	10/17/22 22:58	Methanol	13M2588	9.6699	0.2458		
13M25902.D	AD33894-004	10/17/22 23:14	Methanol	13M2588	9.6733	0.2107		
13M25903.D	AD33902-002	10/17/22 23:30	Methanol	13M2588	9.6721	0.2231		
13M25904.D	AD33915-001	10/17/22 23:45	Methanol	13M2588	9.6683	0.2624		
13M25905.D	AD33915-002	10/18/22 00:00	Methanol	13M2588	9.6675	0.2706		
13M25906.D	AD33915-003	10/18/22 00:17	Methanol	13M2588	9.6704	0.2407		
13M25907.D	AD33915-004	10/18/22 00:32	Methanol	13M2588	9.6671	0.2748		
13M25908.D	AD33915-005	10/18/22 00:47	Methanol	13M2588	9.6717	0.2272		
13M25909.D	CAL @ 2000 PPB	10/18/22 01:02	Aqueous	13M2588	9.6704	0.2407		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2101107 0212

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M25308.D	CAL @ 4000 PPB	07/20/22 12:59	2	13M25307.D	CAL @ 2000 PPB	07/20/22 12:42
3	13M25306.D	CAL @ 1500 PPB	07/20/22 12:26	4	13M25305.D	CAL @ 1000 PPB	07/20/22 12:09
5	13M25304.D	CAL @ 750 PPB	07/20/22 11:53	6	13M25303.D	CAL @ 500 PPB	07/20/22 11:36
7	13M25302.D	CAL @ 250 PPB	07/20/22 11:20				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	0.0268	0.0211	0.0204	0.0204	0.0194	0.0172	0.0172	----	0.0204	9.73	-1	-1	16	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Qua	0.0003	0.0002	0.0003	0.0003	0.0002	0.0001	0.0001	----	0.000260	5.61	0.997	0.997	31	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1.2.4-Trimethylbenzene	1	0	Avg	0.0003	0.0003	0.0003	0.0003	0.0004	0.0003	0.0003	----	0.000370	9.52	0.996	0.996	10	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0200	0.0200	0.0207	0.0214	0.0232	0.0236	0.0285	----	0.0225	8.73	1.00	1.00	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 35.10 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M25859.D				13M25878.D				13M25881.D				13M25909.D							
Method:			8015				8015				8015				8015							
Calibration Name:			CAL @ 2000 PPB				CAL @ 2000 PPB				CAL @ 2000 PPB				CAL @ 2000 PPB							
Calibration Date/Time			10/14/22 19:22				10/15/22 01:50				10/17/22 17:12				10/18/22 01:02							
				Conc				Conc				Conc				Conc				Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff		Conc	Exp	%Diff	
Gasoline Range Orga	20	1	0	1954	2000	2.3	1827	2000	8.7		2193	2000	9.7		1883	2000	5.9					

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
1,4-Dichlorobenzene-	1	0										
2-Methylpentane	1	0										
1,2,4-Trimethylbenze	1	0										
Gasoline Range Orga	1	0										

Wet Chemistry Data

VERITECH Wet Chem Form1 Analysis Summary
% Solids

TestGroupName: % Solids SM2540G **Project #: 2101107**

TestGroup: %SOLIDS

Lab#	Client SampleID	Matrix	Dilution:	Result	Units:	RL	Prep Date	Analysis Date	Received Date	Collect Date
AD33806-001	SB-62SS(6')	Soil	1	94	Percent			10/12/22	10/10/22	10/10/22
AD33806-002	SB-62SS(14'-16')	Soil	1	82	Percent			10/12/22	10/10/22	10/10/22
AD33806-003	SB-63SS(6')	Soil	1	78	Percent			10/12/22	10/10/22	10/10/22
AD33806-004	SB-63SS(14')	Soil	1	77	Percent			10/12/22	10/10/22	10/10/22
AD33806-005	SB-64SS(6')	Soil	1	86	Percent			10/12/22	10/10/22	10/10/22
AD33806-006	SB-64SS(14-15')	Soil	1	80	Percent			10/12/22	10/10/22	10/10/22
AD33806-007	SB-67AS(8-10')	Soil	1	78	Percent			10/12/22	10/10/22	10/10/22

% Solids Report

Analysis Type: SOLIDS-SS
BatchID: SOLIDS-SS-13954

QcType	SampleID:	Rounded Result	Raw Result	Units	Tare Weight	Wet Weight	Dry Weight	Analysis Date	Analyzed By	QC RPD	Rpd Limit
DUP	AD33806-001	94	93.75000	Percent	1.33	12.21	11.53	10/12/22	BEENA	0.63	5
Sample	AD33806-001	94	94.34343	Percent	1.35	11.25	10.69	10/12/22	BEENA		
Sample	AD33806-002	82	81.76670	Percent	1.34	19.00	15.78	10/12/22	BEENA		
Sample	AD33806-003	78	77.94308	Percent	1.34	16.80	13.38	10/12/22	BEENA		
Sample	AD33806-004	77	77.29440	Percent	1.32	18.10	14.30	10/12/22	BEENA		
Sample	AD33806-005	86	85.91304	Percent	1.34	12.84	11.23	10/12/22	BEENA		
Sample	AD33806-006	80	79.93714	Percent	1.34	20.43	16.60	10/12/22	BEENA		
Sample	AD33806-007	78	77.83532	Percent	1.34	20.65	16.37	10/12/22	BEENA		
Sample	AD33808-001	77	76.82522	Percent	1.34	19.42	15.23	10/12/22	BEENA		
Sample	AD33808-002	89	89.25687	Percent	1.33	13.71	12.38	10/12/22	BEENA		
Sample	AD33808-003	83	83.39790	Percent	1.34	19.41	16.41	10/12/22	BEENA		
Sample	AD33808-004	92	92.10412	Percent	1.33	24.38	22.57	10/12/22	BEENA		
Sample	AD33808-005	82	82.47844	Percent	1.34	23.37	19.51	10/12/22	BEENA		
Sample	AD33812-001	85	84.58716	Percent	1.33	12.23	10.55	10/12/22	BEENA		
Sample	AD33813-001	95	94.94163	Percent	1.34	9.05	8.66	10/12/22	BEENA		
Sample	AD33812-002	86	85.71429	Percent	1.33	5.60	4.99	10/12/22	BEENA		
Sample	AD33818-001	84	84.14097	Percent	1.34	10.42	8.98	10/12/22	BEENA		
Sample	AD33818-002	85	84.81818	Percent	1.34	12.34	10.67	10/12/22	BEENA		
Sample	AD33818-003	83	83.33333	Percent	1.34	10.82	9.24	10/12/22	BEENA		
Sample	AD33818-004	84	84.23800	Percent	1.34	10.92	9.41	10/12/22	BEENA		
Sample	AD33821-001	91	90.62776	Percent	1.34	12.65	11.59	10/12/22	BEENA		

* - Indicates Failed Rpd Criteria

Hampton-Clarke
Analytical & Field Services

Last Page of Report

APPENDIX E

Laboratory Analytical Results
And Chain of Custody Documentation
(Groundwater)

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: WMATA NBG

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei/Jeff Martineau

Received Date: 11/3/2022

Report Date: 12/2/2022

Deliverables: MDE-R

Lab ID: AD34316

Lab Project No: 2110304

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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- Form 1 Sample and Blank Results
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- Form 3 Spike Recovery
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- Form 2 Surrogate Recovery
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GRO Data 156

Hampton-Clarke
WBE/DBE/SBE 800-426-9992

Form 1 Sample and Blank Results

Form 2 Surrogate Recovery

Form 3 Spike Recovery

Form 4 Method Blank Summary

Form 5 Run Logs & BFB Spectra

Form 6, 7 Calibration Summary

Sample Summary

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2110304

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD34316-001	TMW-22S	Aqueous	11/2/2022	11/3/2022
AD34316-002	TMW-22D	Aqueous	11/2/2022	11/3/2022
AD34316-003	TMW-21D	Aqueous	11/2/2022	11/3/2022
AD34316-004	TMW-21S	Aqueous	11/2/2022	11/3/2022
AD34316-005	TMW-23D	Aqueous	11/2/2022	11/3/2022
AD34316-006	TMW-19S	Aqueous	11/2/2022	11/3/2022
AD34316-007	TRIP BLANK	Aqueous	11/2/2022	11/3/2022

HC Case Narrative

Client: Intertek
Project: WMATA NBG

HC Project: 2110304

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 105154 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out from Matrix Spike and Matrix Spike Duplicate for batch 105154. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Diesel Range Organics Analysis:

Data conforms to method requirements.

Gasoline Range Organics Analysis:

Sample AD34316-007 had one or more surrogate recoveries outside QC limits. The sample was reanalyzed confirming recoveries outside QC limits due to matrix interference. The initial analysis is reported. Please refer to the applicable Form 2 for the recoveries.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

12/5/22
Date

HC Executive Summary

Client: Intertek-PSI
HC Project #: 2110304
Project: WMATA NBG

Lab#: AD34316-001 **Sample ID: TMW-22S**

Analyte	Units	RL	Result	Analytical Method
Gasoline Range Organics	ug/l	250	710	EPA 8015D
cis-1,2-Dichloroethene	ug/l	1.0	4.1	EPA 8260D
Isopropylbenzene	ug/l	1.0	1.4	EPA 8260D
Tetrachloroethene	ug/l	1.0	160	EPA 8260D
Trichloroethene	ug/l	1.0	28	EPA 8260D

Lab#: AD34316-002 **Sample ID: TMW-22D**

Analyte	Units	RL	Result	Analytical Method
Gasoline Range Organics	ug/l	250	540	EPA 8015D
Chloroform	ug/l	1.0	1.2	EPA 8260D
cis-1,2-Dichloroethene	ug/l	1.0	2.0	EPA 8260D
Tetrachloroethene	ug/l	1.0	290	EPA 8260D
Trichloroethene	ug/l	1.0	5.1	EPA 8260D

Lab#: AD34316-003 **Sample ID: TMW-21D**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	5.0	5.8	EPA 8260D
Tetrachloroethene	ug/l	5.0	470	EPA 8260D
Trichloroethene	ug/l	5.0	18	EPA 8260D

Lab#: AD34316-004 **Sample ID: TMW-21S**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	1.0	15	EPA 8260D
Tetrachloroethene	ug/l	1.0	150	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	2.0	EPA 8260D
Trichloroethene	ug/l	1.0	24	EPA 8260D
Vinyl chloride	ug/l	1.0	3.2	EPA 8260D

Lab#: AD34316-005 **Sample ID: TMW-23D**

Analyte	Units	RL	Result	Analytical Method
Diesel Range Organics	ug/l	300	1200	EPA 8015D
Gasoline Range Organics	ug/l	250	440	EPA 8015D
Total Petroleum Hydrocarbons	ug/l	300	1100	EPA 8015D
Cyclohexane	ug/l	1.0	3.6	EPA 8260D
Ethylbenzene	ug/l	1.0	1.3	EPA 8260D
Isopropylbenzene	ug/l	1.0	3.5	EPA 8260D
Methylcyclohexane	ug/l	1.0	7.8	EPA 8260D
Tetrachloroethene	ug/l	1.0	1.6	EPA 8260D

HC Report of Analysis

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2110304

Sample ID: TMW-22S
Lab#: AD34316-001
Matrix: Aqueous

Collection Date: 11/2/2022
Receipt Date: 11/3/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	**1**	**ug/l**	**250**	**710**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	ug/l	300	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**4.1**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND

Sample ID: TMW-22S
Lab#: AD34316-001
Matrix: Aqueous
Collection Date: 11/2/2022
Receipt Date: 11/3/2022

Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	**1**	**ug/l**	**1.0**	**1.4**
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**160**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	**1**	**ug/l**	**1.0**	**28**
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TMW-22D
Lab#: AD34316-002
Matrix: Aqueous
Collection Date: 11/2/2022
Receipt Date: 11/3/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	**1**	**ug/l**	**250**	**540**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	ug/l	300	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	**1**	**ug/l**	**1.0**	**1.2**
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**2.0**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND

Sample ID:	**TMW-22D**			**Collection Date:**	**11/2/2022**
Lab#:	**AD34316-002**			**Receipt Date:**	**11/3/2022**
Matrix:	**Aqueous**				
o-Xylene	1	ug/l	1.0	ND	
Styrene	1	ug/l	1.0	ND	
Tetrachloroethene	**1**	**ug/l**	**1.0**	**290**	
Toluene	1	ug/l	1.0	ND	
trans-1,2-Dichloroethene	1	ug/l	1.0	ND	
trans-1,3-Dichloropropene	1	ug/l	1.0	ND	
Trichloroethene	**1**	**ug/l**	**1.0**	**5.1**	
Trichlorofluoromethane	1	ug/l	1.0	ND	
Vinyl chloride	1	ug/l	1.0	ND	
Xylenes (Total)	1	ug/l	1.0	ND	

Sample ID: TMW-21D
Lab#: AD34316-003
Matrix: Aqueous

Collection Date: 11/2/2022
Receipt Date: 11/3/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	ug/l	300	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	5	ug/l	5.0	ND
1,1,2,2-Tetrachloroethane	5	ug/l	5.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ug/l	5.0	ND
1,1,2-Trichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethane	5	ug/l	5.0	ND
1,1-Dichloroethene	5	ug/l	5.0	ND
1,2,3-Trichlorobenzene	5	ug/l	5.0	ND
1,2,4-Trichlorobenzene	5	ug/l	5.0	ND
1,2-Dibromo-3-chloropropane	5	ug/l	5.0	ND
1,2-Dibromoethane	5	ug/l	5.0	ND
1,2-Dichlorobenzene	5	ug/l	5.0	ND
1,2-Dichloroethane	5	ug/l	3.3	ND
1,2-Dichloropropane	5	ug/l	5.0	ND
1,3-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dichlorobenzene	5	ug/l	5.0	ND
1,4-Dioxane	5	ug/l	250	ND
2-Butanone	5	ug/l	5.0	ND
2-Hexanone	5	ug/l	5.0	ND
4-Methyl-2-pentanone	5	ug/l	5.0	ND
Acetone	5	ug/l	25	ND
Benzene	5	ug/l	2.5	ND
Bromochloromethane	5	ug/l	5.0	ND
Bromodichloromethane	5	ug/l	5.0	ND
Bromoform	5	ug/l	5.0	ND
Bromomethane	5	ug/l	5.0	ND
Carbon disulfide	5	ug/l	5.0	ND
Carbon tetrachloride	5	ug/l	5.0	ND
Chlorobenzene	5	ug/l	5.0	ND
Chloroethane	5	ug/l	5.0	ND
Chloroform	5	ug/l	5.0	ND
Chloromethane	5	ug/l	5.0	ND
cis-1,2-Dichloroethene	**5**	**ug/l**	**5.0**	**5.8**
cis-1,3-Dichloropropene	5	ug/l	5.0	ND
Cyclohexane	5	ug/l	5.0	ND
Dibromochloromethane	5	ug/l	5.0	ND
Dichlorodifluoromethane	5	ug/l	5.0	ND
Ethylbenzene	5	ug/l	5.0	ND
Isopropylbenzene	5	ug/l	5.0	ND
m&p-Xylenes	5	ug/l	5.0	ND
Methyl Acetate	5	ug/l	5.0	ND
Methylcyclohexane	5	ug/l	5.0	ND
Methylene chloride	5	ug/l	5.0	ND
Methyl-t-butyl ether	5	ug/l	4.4	ND

Sample ID:	**TMW-21D**			**Collection Date:**	**11/2/2022**
Lab#:	**AD34316-003**			**Receipt Date:**	**11/3/2022**
Matrix:	**Aqueous**				
o-Xylene		5	ug/l	5.0	ND
Styrene		5	ug/l	5.0	ND
Tetrachloroethene		**5**	**ug/l**	**5.0**	**470**
Toluene		5	ug/l	5.0	ND
trans-1,2-Dichloroethene		5	ug/l	5.0	ND
trans-1,3-Dichloropropene		5	ug/l	5.0	ND
Trichloroethene		**5**	**ug/l**	**5.0**	**18**
Trichlorofluoromethane		5	ug/l	5.0	ND
Vinyl chloride		5	ug/l	5.0	ND
Xylenes (Total)		5	ug/l	5.0	ND

Sample ID: TMW-21S
Lab#: AD34316-004
Matrix: Aqueous
Collection Date: 11/2/2022
Receipt Date: 11/3/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	ug/l	300	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**15**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND

Sample ID:	**TMW-21S**			**Collection Date:**	**11/2/2022**
Lab#:	**AD34316-004**			**Receipt Date:**	**11/3/2022**
Matrix:	**Aqueous**				
o-Xylene		1	ug/l	1.0	ND
Styrene		1	ug/l	1.0	ND
Tetrachloroethene		**1**	**ug/l**	**1.0**	**150**
Toluene		1	ug/l	1.0	ND
trans-1,2-Dichloroethene		**1**	**ug/l**	**1.0**	**2.0**
trans-1,3-Dichloropropene		1	ug/l	1.0	ND
Trichloroethene		**1**	**ug/l**	**1.0**	**24**
Trichlorofluoromethane		1	ug/l	1.0	ND
Vinyl chloride		**1**	**ug/l**	**1.0**	**3.2**
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: TMW-23D
Lab#: AD34316-005
Matrix: Aqueous

Collection Date: 11/2/2022
Receipt Date: 11/3/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	**1**	**ug/l**	**300**	**1200**

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	**1**	**ug/l**	**250**	**440**

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**ug/l**	**300**	**1100**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	**1**	**ug/l**	**1.0**	**3.6**
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	**1**	**ug/l**	**1.0**	**1.3**
Isopropylbenzene	**1**	**ug/l**	**1.0**	**3.5**
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	**1**	**ug/l**	**1.0**	**7.8**
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND

Sample ID:	**TMW-23D**			**Collection Date:**	**11/2/2022**
Lab#:	**AD34316-005**			**Receipt Date:**	**11/3/2022**
Matrix:	**Aqueous**				
o-Xylene		1	ug/l	1.0	ND
Styrene		1	ug/l	1.0	ND
Tetrachloroethene		**1**	**ug/l**	**1.0**	**1.6**
Toluene		1	ug/l	1.0	ND
trans-1,2-Dichloroethene		1	ug/l	1.0	ND
trans-1,3-Dichloropropene		1	ug/l	1.0	ND
Trichloroethene		1	ug/l	1.0	ND
Trichlorofluoromethane		1	ug/l	1.0	ND
Vinyl chloride		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: TMW-19S
Lab#: AD34316-006
Matrix: Aqueous
Collection Date: 11/2/2022
Receipt Date: 11/3/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	ug/l	300	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND

Sample ID: TMW-19S				Collection Date: 11/2/2022	
Lab#: AD34316-006				Receipt Date: 11/3/2022	
Matrix: Aqueous					
o-Xylene	1	ug/l	1.0	ND	
Styrene	1	ug/l	1.0	ND	
Tetrachloroethene	1	ug/l	1.0	ND	
Toluene	1	ug/l	1.0	ND	
trans-1,2-Dichloroethene	1	ug/l	1.0	ND	
trans-1,3-Dichloropropene	1	ug/l	1.0	ND	
Trichloroethene	1	ug/l	1.0	ND	
Trichlorofluoromethane	1	ug/l	1.0	ND	
Vinyl chloride	1	ug/l	1.0	ND	
Xylenes (Total)	1	ug/l	1.0	ND	

Sample ID: TRIP BLANK
Lab#: AD34316-007
Matrix: Aqueous

Collection Date: 11/2/2022
Receipt Date: 11/3/2022

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND

Sample ID:	**TRIP BLANK**			**Collection Date:**	**11/2/2022**
Lab#:	**AD34316-007**			**Receipt Date:**	**11/3/2022**
Matrix:	**Aqueous**				
Trichlorofluoromethane		1	ug/l	1.0	ND
Vinyl chloride		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2110304

Lab#: AD34316-001 **Sample ID: TMW-22S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 21:16	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/7/22 20:27	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 21:16	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/4/22 16:44	SG

Lab#: AD34316-002 **Sample ID: TMW-22D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 22:34	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/7/22 20:43	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 22:34	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/4/22 17:06	SG

Lab#: AD34316-003 **Sample ID: TMW-21D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 23:00	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/7/22 21:02	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 23:00	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/4/22 22:56	SG

Lab#: AD34316-004 **Sample ID: TMW-21S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 23:26	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/7/22 23:33	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 23:26	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/4/22 20:45	SG

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2110304

Lab#: AD34316-005 **Sample ID: TMW-23D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 23:52	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/7/22 23:48	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/14/22 23:52	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/4/22 22:34	SG

Lab#: AD34316-006 **Sample ID: TMW-19S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/15/22 00:18	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/8/22 00:06	WP
TPH 8015D (C8-C44)	Mod. Shaker	11/14/22 11:07	Lynda	EPA 8015D	11/15/22 00:18	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/4/22 20:23	SG

Lab#: AD34316-007 **Sample ID: TRIP BLANK**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/7/22 23:17	WP
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/4/22 14:02	SG

Chain of Custody

2110304 0022

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 US Highway 46, STE D and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787
Service Center: 137-C Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 2110304

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlab
Address: 2930 Eskridge Rd Fairfax VA 22031
1b) Email/Cell/Fax/Ph:
1c) Send Invoice to: Jeff Martineau
1d) Send Report to: Jeff + Rinzo. R

Project Information

2a) Project: WMATA NBG
2b) Project Mgr: Jeff Martineau
2c) Project Location (City/State): Washington DC
2d) Quote/PO # (If Applicable): 044400

FOR LAB USE ONLY ↓

Batch #: AD34376

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	8260 VOC	TPH - DRO/GRO	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	TMW-22S	GW	11/2/22	1033			X	X					2		6		
002	TMW-22D	GW		1130			X	X					2		6		
003	TMW-21D	GW		1225			X	X				11/3/22	2		6		
004	TMW-21S	GW		1305			X	X					2		6		
005	TMW-23D	GW		1420			X	X					2		6		
006	TMW-19S	GW		1515			X	X					2		6		

10) Relinquished by:	Accepted by:	Date	Time
[signature]	FEDEX		
FEDEX	[signature]	11/3/22	10:00

11) Sampler (print name): RINZO. R Date: 11/2/22

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.8/2.6

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD34316 Entered By: maxwell

Date Entered 11/3/2022 10:43:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.8,2.6
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	Yes	Other comments ...Specify (TB date, sample matrix, any missing info, etc.) TRIP BLANK DATE 10/27/22 RECEIVED NOT ON COC
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

PRESERVATION DOCUMENT

Batch Number AD34316

Entered By: maxwell

Date Entered 11/3/2022 10:45:00 AM

Lab#	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD34316-001	40ML	G	VO/GRO	HCL	14470	1	HC291595
AD34316-001	1L	G	TPH/DRO	HCL	14470	1	HC291595
AD34316-002	40ML	G	VO/GRO	HCL	14470	1	HC291595
AD34316-002	1L	G	TPH/DRO	HCL	14470	1	HC291595
AD34316-003	40ML	G	VO/GRO	HCL	14470	1	HC291595
AD34316-003	1L	G	TPH/DRO	HCL	14470	1	HC291595
AD34316-004	40ML	G	VO/GRO	HCL	14470	1	HC291595
AD34316-004	1L	G	TPH/DRO	HCL	14470	1	HC291595
AD34316-005	40ML	G	VO/GRO	HCL	14470	1	HC291595
AD34316-005	1L	G	TPH/DRO	HCL	14470	1	HC291595
AD34316-006	40ML	G	VO/GRO	HCL	14470	1	HC291595
AD34316-006	1L	G	TPH/DRO	HCL	14470	1	HC291595
AD34316-007	40ML	G	VO/GRO	HCL	14470	1	HC291595

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD34316-001	11/03/22 10:00	MAXW	0	M	Received
AD34316-001	11/03/22 10:15	MAXW	0	M	Login
AD34316-001	11/03/22 11:02	R31	1	A	NONE
AD34316-001	11/07/22 19:55	WP	1	A	GRO
AD34316-001	11/03/22 11:02	R31	2	A	NONE
AD34316-001	11/04/22 15:02	SG	2	M	VOA
AD34316-001	11/03/22 11:02	R31	3	A	NONE
AD34316-001	11/03/22 11:02	R31	4	A	NONE
AD34316-001	11/03/22 11:02	R31	5	A	NONE
AD34316-001	11/03/22 11:01	R31	6	A	NONE
AD34316-001	11/03/22 10:38	R12	7	A	NONE
AD34316-001	11/14/22 11:07	LV	7	A	TPH
AD34316-001	11/14/22 17:09	R12	7	A	NONE
AD34316-001	11/03/22 10:38	R12	8	A	NONE
AD34316-001	11/14/22 11:07	LV	8	A	TPH
AD34316-002	11/03/22 10:00	MAXW	0	M	Received
AD34316-002	11/03/22 10:15	MAXW	0	M	Login
AD34316-002	11/03/22 11:02	R31	1	A	NONE
AD34316-002	11/07/22 19:55	WP	1	A	GRO
AD34316-002	11/03/22 11:02	R31	2	A	NONE
AD34316-002	11/04/22 15:02	SG	2	M	VOA
AD34316-002	11/03/22 11:02	R31	3	A	NONE
AD34316-002	11/03/22 11:02	R31	5	A	NONE
AD34316-002	11/03/22 11:01	R31	6	A	NONE
AD34316-002	11/03/22 10:38	R12	7	A	NONE
AD34316-002	11/03/22 10:38	R12	8	A	NONE
AD34316-002	11/14/22 11:07	LV	8	A	TPH
AD34316-002	11/03/22 11:09	R31	9	A	NONE
AD34316-003	11/03/22 10:00	MAXW	0	M	Received
AD34316-003	11/03/22 10:15	MAXW	0	M	Login
AD34316-003	11/03/22 11:02	R31	1	A	NONE
AD34316-003	11/07/22 19:55	WP	1	A	GRO
AD34316-003	11/03/22 11:02	R31	2	A	NONE
AD34316-003	11/04/22 15:02	SG	2	M	VOA
AD34316-003	11/03/22 11:02	R31	3	A	NONE
AD34316-003	11/03/22 11:02	R31	4	A	NONE
AD34316-003	11/03/22 11:02	R31	5	A	NONE
AD34316-003	11/03/22 11:01	R31	6	A	NONE
AD34316-003	11/03/22 10:38	R12	7	A	NONE
AD34316-003	11/03/22 10:38	R12	8	A	NONE
AD34316-003	11/14/22 11:07	LV	8	A	TPH
AD34316-004	11/03/22 10:00	MAXW	0	M	Received
AD34316-004	11/03/22 10:15	MAXW	0	M	Login
AD34316-004	11/03/22 11:02	R31	1	A	NONE
AD34316-004	11/07/22 19:55	WP	1	A	GRO
AD34316-004	11/03/22 11:02	R31	2	A	NONE
AD34316-004	11/04/22 15:02	SG	2	M	VOA
AD34316-004	11/03/22 11:02	R31	3	A	NONE
AD34316-004	11/03/22 11:02	R31	4	A	NONE
AD34316-004	11/03/22 11:02	R31	5	A	NONE
AD34316-004	11/03/22 11:01	R31	6	A	NONE
AD34316-004	11/03/22 10:38	R12	7	A	NONE
AD34316-004	11/03/22 10:38	R12	6	A	NONE
AD34316-004	11/14/22 11:07	LV	8	A	TPH
AD34316-005	11/03/22 10:00	MAXW	0	M	Received
AD34316-005	11/03/22 10:15	MAXW	0	M	Login
AD34316-005	11/03/22 11:02	R31	1	A	NONE
AD34316-005	11/07/22 19:55	WP	1	A	GRO
AD34316-005	11/03/22 11:02	R31	2	A	NONE
AD34316-005	11/04/22 15:02	SG	2	M	VOA
AD34316-005	11/03/22 11:02	R31	3	A	NONE
AD34316-005	11/03/22 11:02	R31	4	A	NONE
AD34316-005	11/03/22 11:02	R31	5	A	NONE
AD34316-005	11/03/22 11:01	R31	6	A	NONE
AD34316-005	11/03/22 10:38	R12	7	A	NONE
AD34316-005	11/14/22 11:07	LV	7	A	TPH
AD34316-005	11/03/22 10:38	R12	8	A	NONE
AD34316-006	11/03/22 10:00	MAXW	0	M	Received
AD34316-006	11/03/22 10:15	MAXW	0	M	Login
AD34316-006	11/03/22 11:02	R31	1	A	NONE
AD34316-006	11/07/22 19:55	WP	1	A	GRO
AD34316-006	11/03/22 11:02	R31	2	A	NONE
AD34316-006	11/04/22 15:02	SG	2	M	VOA
AD34316-006	11/03/22 11:02	R31	3	A	NONE
AD34316-006	11/03/22 11:02	R31	4	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD34316-006	11/03/22 11:02	R31	5	A	NONE
AD34316-006	11/03/22 11:01	R31	6	A	NONE
AD34316-006	11/03/22 10:38	R12	7	A	NONE
AD34316-006	11/03/22 10:38	R12	8	A	NONE
AD34316-006	11/14/22 11:07	LV	8	A	TPH
AD34316-007	11/03/22 10:00	MAXW	0	M	Received
AD34316-007	11/03/22 10:15	MAXW	0	M	Login
AD34316-007	11/03/22 11:02	R31	1	A	NONE
AD34316-007	11/07/22 19:55	WP	1	A	GRO
AD34316-007	11/03/22 11:02	R31	2	A	NONE
AD34316-007	11/04/22 12:14	SG	2	M	VOA
AD34316-007	11/03/22 11:02	R31	3	A	NONE
AD34316-007	11/03/22 11:02	R31	4	A	NONE
AD34316-007	11/03/22 11:02	R31	5	A	NONE
AD34316-007	11/03/22 11:01	R31	6	A	NONE

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34316-001
Client Id: TMW-22S
Data File: 1M166681.D
Analysis Date: 11/04/22 16:44
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**4.1**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	**98-82-8**	**Isopropylbenzene**	**1.0**	**1.4**
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**160**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**28**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

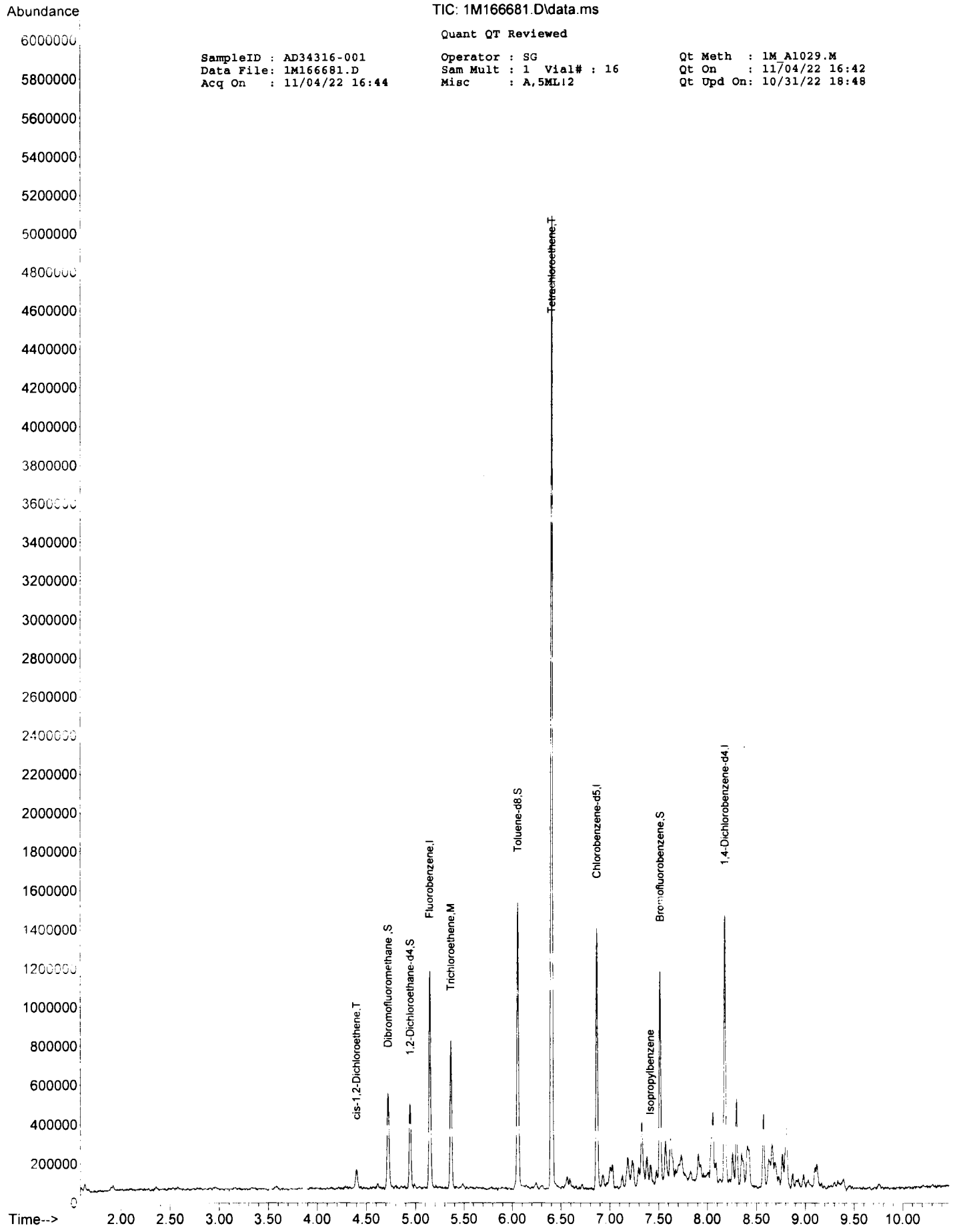
Quantitation Report (QT Reviewed)

SampleID : AD34316-001 Operator : SG Qt Meth : 1M A1029.M
Data File: 1M166681.D Sam Mult : 1 Vial# : 16 Qt On : 11/04/22 16:42
Acq On : 11/04/22 16:44 Misc : A,5ML!2 Qt Upd On: 10/31/22 18:48

Data Path : G:\GcMsData\2022\GCMS_1\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.146	96	639093	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	509040	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.178	152	286368	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.725	111	194361	30.79	ug/l	
Spiked Amount 30.000			Recovery = 102.63%			
39) 1,2-Dichloroethane-d4	4.947	67	103374	33.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 110.30%			
66) Toluene-d8	6.056	98	608578	28.14	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.80%			
76) Bromofluorobenzene	7.516	174	225859	30.24	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.80%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	4.400	61	40037m	4.1090	ug/l	
49) Trichloroethene	5.365	130	164801m	27.9727	ug/l	
65) Tetrachloroethene	6.403	164	767703m	160.7592	ug/l	
84) Isopropylbenzene	7.413	105	32167m	1.4389	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M166681.D\data.ms
Quant QT Reviewed
SampleID : AD34316-001
Data File: 1M166681.D
Acq On : 11/04/22 16:44
Operator : SG
Sam Mult : 1 Vial# : 16
Misc : A,5ML12
Qt Meth : 1M_A1029.M
Qt On : 11/04/22 16:42
Qt Upd On: 10/31/22 18:48
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Isopropylbenzene
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34316-002
Client Id: TMW-22D
Data File: 1M166682.D
Analysis Date: 11/04/22 17:06
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	**67-66-3**	**Chloroform**	**1.0**	**1.2**
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**2.0**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**290**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**5.1**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 665549 *Total Target Concentration* 300 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD34316-002 Operator : SG Qt Meth : 1M_A1029.M
Data File: 1M166682.D Sam Mult : 1 Vial# : 17 Qt On : 11/04/22 16:44
Acq On : 11/04/22 17:06 Misc : A,5ML!2 Qt Upd On: 10/31/22 18:48

Data Path : G:\GcMsData\2022\GCMS_1\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Ref)
Internal Standards						
4) Fluorobenzene	5.150	96	610041	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	486528	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.179	152	265918	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.725	111	188593	31.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.33%			
39) 1,2-Dichloroethane-d4	4.947	67	98182	32.92	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.73%			
66) Toluene-d8	6.056	98	587341	28.41	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.70%			
76) Bromofluorobenzene	7.516	174	212112	30.58	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.9			
Target Compounds						Qvalue
30) cis-1,2 Dichloroethene	4.404	61	18759m	2.0169	ug/l	
36) Chloroform	4.619	83	12067	1.1515	ug/l	99
49) Trichloroethene	5.365	130	28647m	5.0940	ug/l	
65) Tetrachloroethene	6.407	164	1340021m	293.5880	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Abundance

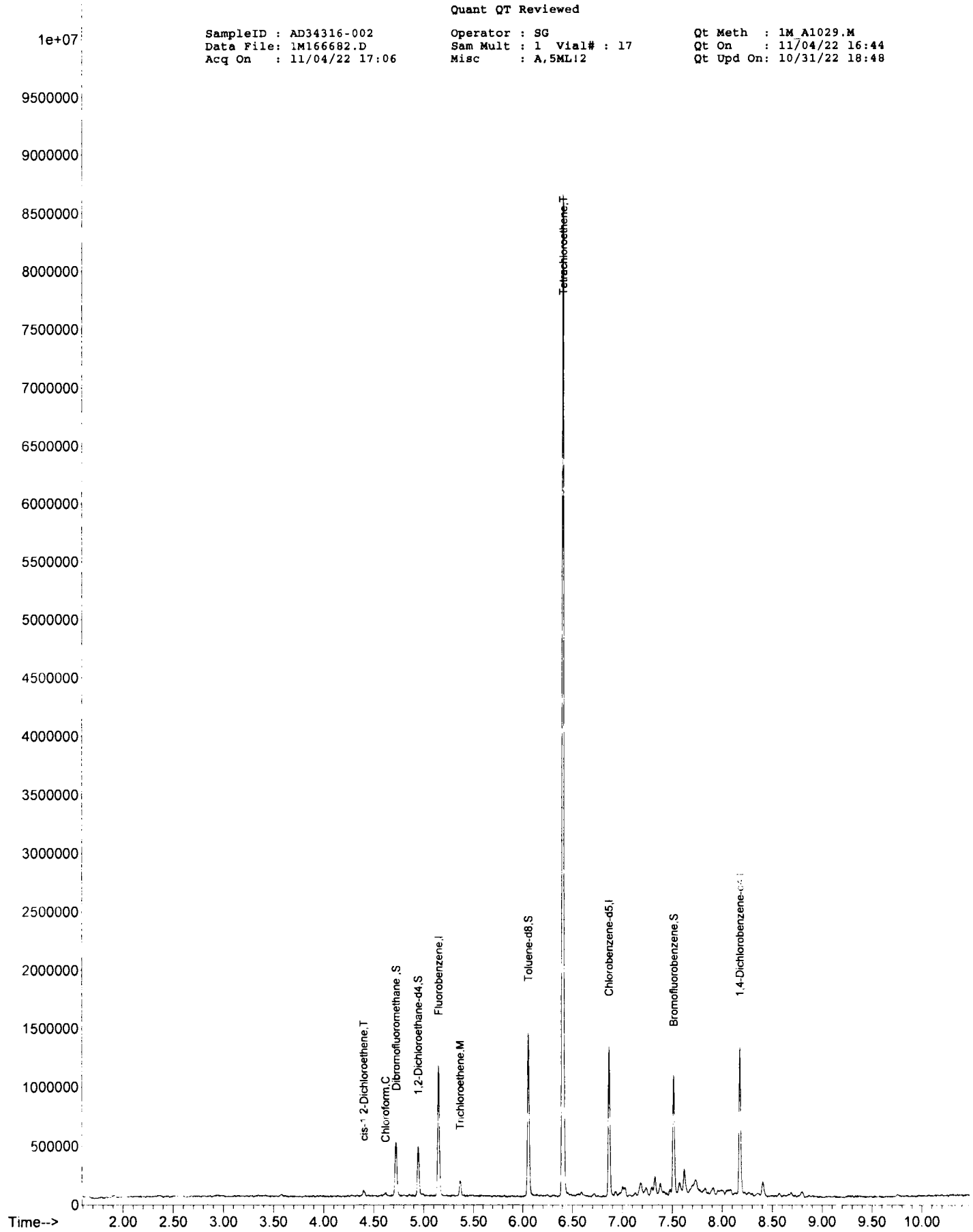
TIC: 1M166682.D\data.ms

Quant QT Reviewed

SampleID : AD34316-002
Data File: 1M166682.D
Acq On : 11/04/22 17:06

Operator : SG
Sam Mult : 1 Vial# : 17
Misc : A,5ML;2

Qt Meth : 1M_A1029.M
Qt On : 11/04/22 16:44
Qt Upd On: 10/31/22 18:48



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34316-003(5X)
Client Id: TMW-21D
Data File: 1M166698.D
Analysis Date: 11/04/22 22:56
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 5.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	5.0	U	56-23-5	Carbon Tetrachloride	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	108-90-7	Chlorobenzene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	5.0	U	75-00-3	Chloroethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U	67-66-3	Chloroform	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U	74-87-3	Chloromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**5.0**	**5.8**
87-61-6	1,2,3-Trichlorobenzene	5.0	U	10061-01-5	cis-1,3-Dichloropropene	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U	110-82-7	Cyclohexane	5.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	5.0	U	124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U	75-71-8	Dichlorodifluoromethane	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U	100-41-4	Ethylbenzene	5.0	U
107-06-2	1,2-Dichloroethane	3.3	U	98-82-8	Isopropylbenzene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U	79601-23-1	m&p-Xylenes	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U	79-20-9	Methyl Acetate	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U	108-87-2	Methylcyclohexane	5.0	U
123-91-1	1,4-Dioxane	250	U	75-09-2	Methylene Chloride	5.0	U
78-93-3	2-Butanone	5.0	U	1634-04-4	Methyl-t-butyl ether	4.4	U
591-78-6	2-Hexanone	5.0	U	95-47-6	o-Xylene	5.0	U
108-10-1	4-Methyl-2-Pentanone	5.0	U	100-42-5	Styrene	5.0	U
67-64-1	Acetone	25	U	**127-18-4**	**Tetrachloroethene**	**5.0**	**470**
71-43-2	Benzene	2.5	U	108-88-3	Toluene	5.0	U
74-97-5	Bromochloromethane	5.0	U	156-60-5	trans-1,2-Dichloroethene	5.0	U
75-27-4	Bromodichloromethane	5.0	U	10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U	**79-01-6**	**Trichloroethene**	**5.0**	**18**
74-83-9	Bromomethane	5.0	U	75-69-4	Trichlorofluoromethane	5.0	U
75-15-0	Carbon Disulfide	5.0	U	75-01-4	Vinyl Chloride	5.0	U
1330-20-7	Xylenes (Total)	5.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

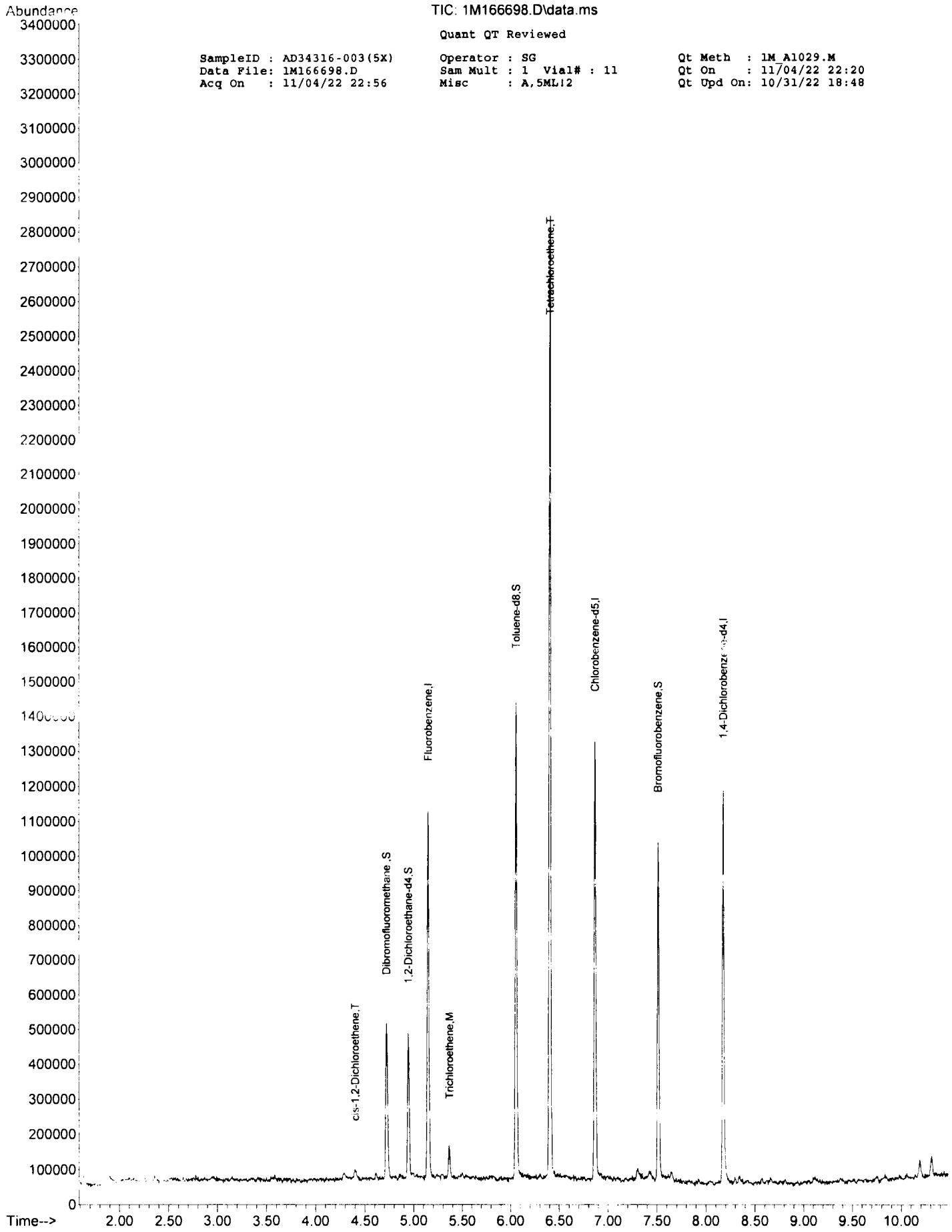
Quantitation Report (QT Reviewed)

SampleID : AD34316-003(5X) Operator : SG Qt Meth : 1M_A1029.M
Data File: 1M166698.D Sam Mult : 1 Vial# : 11 Qt On : 11/04/22 22:20
Acq On : 11/04/22 22:56 Misc : A,5ML!2 Qt Upd On: 10/31/22 18:48

Data Path : G:\GcMsData\2022\GCMS_1\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.150	96	583902	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	474074	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.178	152	226703	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.722	111	175778	30.48	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.60%			
39) 1,2-Dichloroethane-d4	4.947	67	93301	32.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.97%			
66) Toluene-d8	6.056	98	567830	28.19	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.97%			
76) Bromofluorobenzene	7.513	174	199174	33.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.27%			
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	4.404	61	10336m	1.1611	ug/l	
49) Trichloroethene	5.368	130	19519m	3.6262	ug/l	
65) Tetrachloroethene	6.407	164	418332m	94.0610	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M166698.D\data.ms
Quant QT Reviewed
SampleID : AD34316-003(5X)
Data File: 1M166698.D
Acq On : 11/04/22 22:56
Operator : SG
Sam Mult : 1 Vial# : 11
Misc : A,5ML;2
Qt Meth : 1M_A1029.M
Qt On : 11/04/22 22:20
Qt Upd On: 10/31/22 18:48
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34316-004
Client Id: TMW-21S
Data File: 1M166692.D
Analysis Date: 11/04/22 20:45
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**15**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**150**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**2.0**
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**24**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	**75-01-4**	**Vinyl Chloride**	**1.0**	**3.2**
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

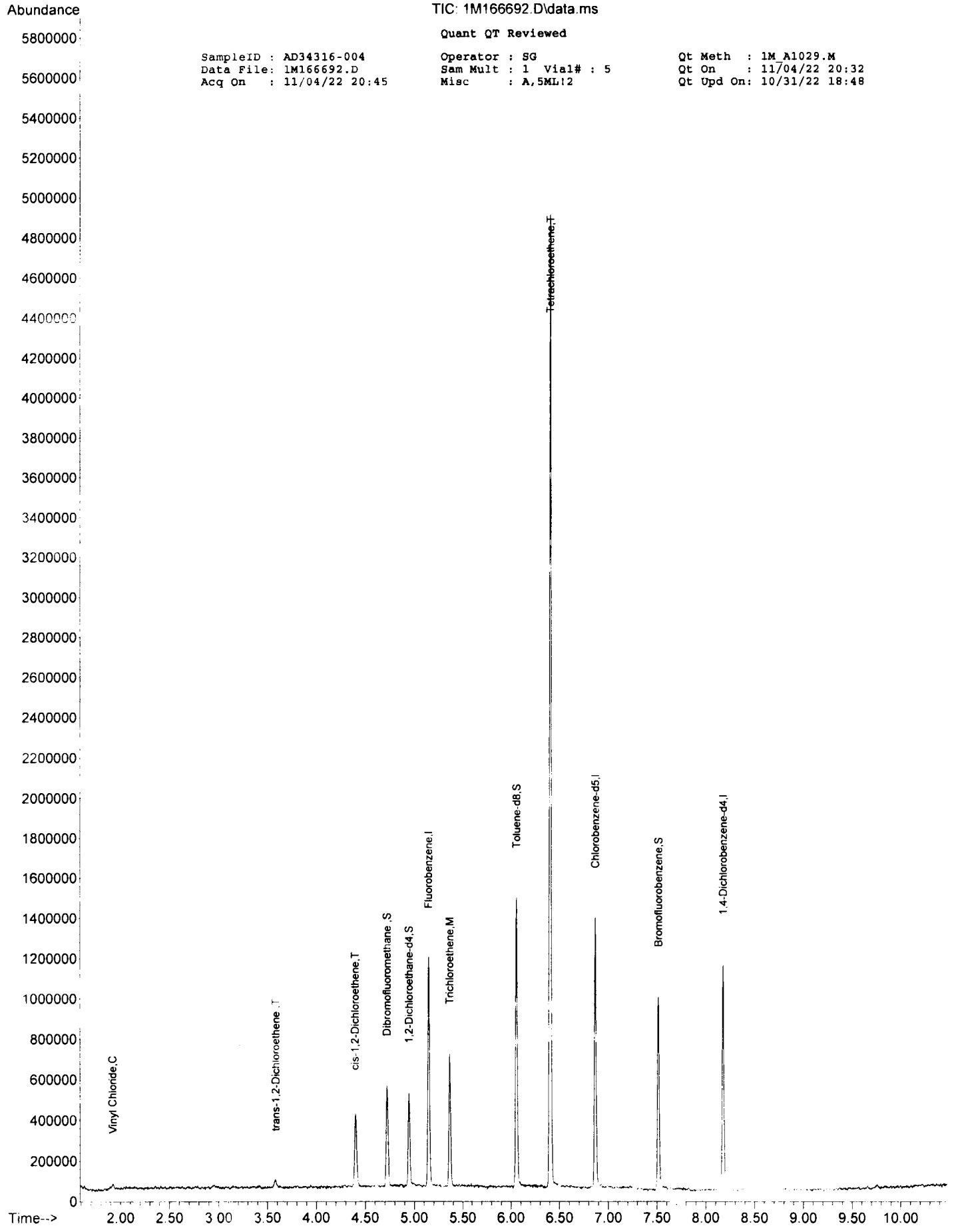
Quantitation Report (QT Reviewed)

SampleID : AD34316-004 Operator : SG Qt Meth : 1M_A1029.M
Data File: 1M166692.D Sam Mult : 1 Vial# : 5 Qt On : 11/04/22 20:32
Acq On : 11/04/22 20:45 Misc : A,5ML!2 Qt Upd On: 10/31/22 18:48

Data Path : G:\GcMsData\2022\GCMS_1\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.147	96	633154	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	519823	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.179	152	233942	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.722	111	191279	30.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.97%			
39) 1,2-Dichloroethane-d4	4.947	67	104298	33.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.33%			
66) Toluene-d8	6.056	98	608250	27.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.80%			
76) Bromofluorobenzene	7.516	174	199955	32.77	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.23%			
Target Compounds						Qvalue
9) Vinyl Chloride	1.922	62	16486m	3.1889	ug/l	
28) trans-1,2-Dichloroethene	3.587	96	12920m	2.0058	ug/l	
30) cis-1,2-Dichloroethene	4.397	61	149296m	15.4661	ug/l	
49) Trichloroethene	5.365	130	141473m	24.2383	ug/l	
65) Tetrachloroethene	6.404	164	739473m	151.6357	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M166692.D\data.ms
Quant QT Reviewed
SampleID : AD34316-004
Data File: 1M166692.D
Acq On : 11/04/22 20:45
Operator : SG
Sam Mult : 1 Vial# : 5
Misc : A,5ML;2
Qt Meth : 1M_A1029.M
Qt On : 11/04/22 20:32
Qt Upd On: 10/31/22 18:48
Vinyl Chloride,C
trans-1,2-Dichloroethene,T
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34316-005
Client Id: TMW-23D
Data File: 1M166697.D
Analysis Date: 11/04/22 22:34
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	**110-82-7**	**Cyclohexane**	**1.0**	**3.6**
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	**100-41-4**	**Ethylbenzene**	**1.0**	**1.3**
107-06-2	1,2-Dichloroethane	0.66	U	**98-82-8**	**Isopropylbenzene**	**1.0**	**3.5**
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**7.8**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**1.6**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

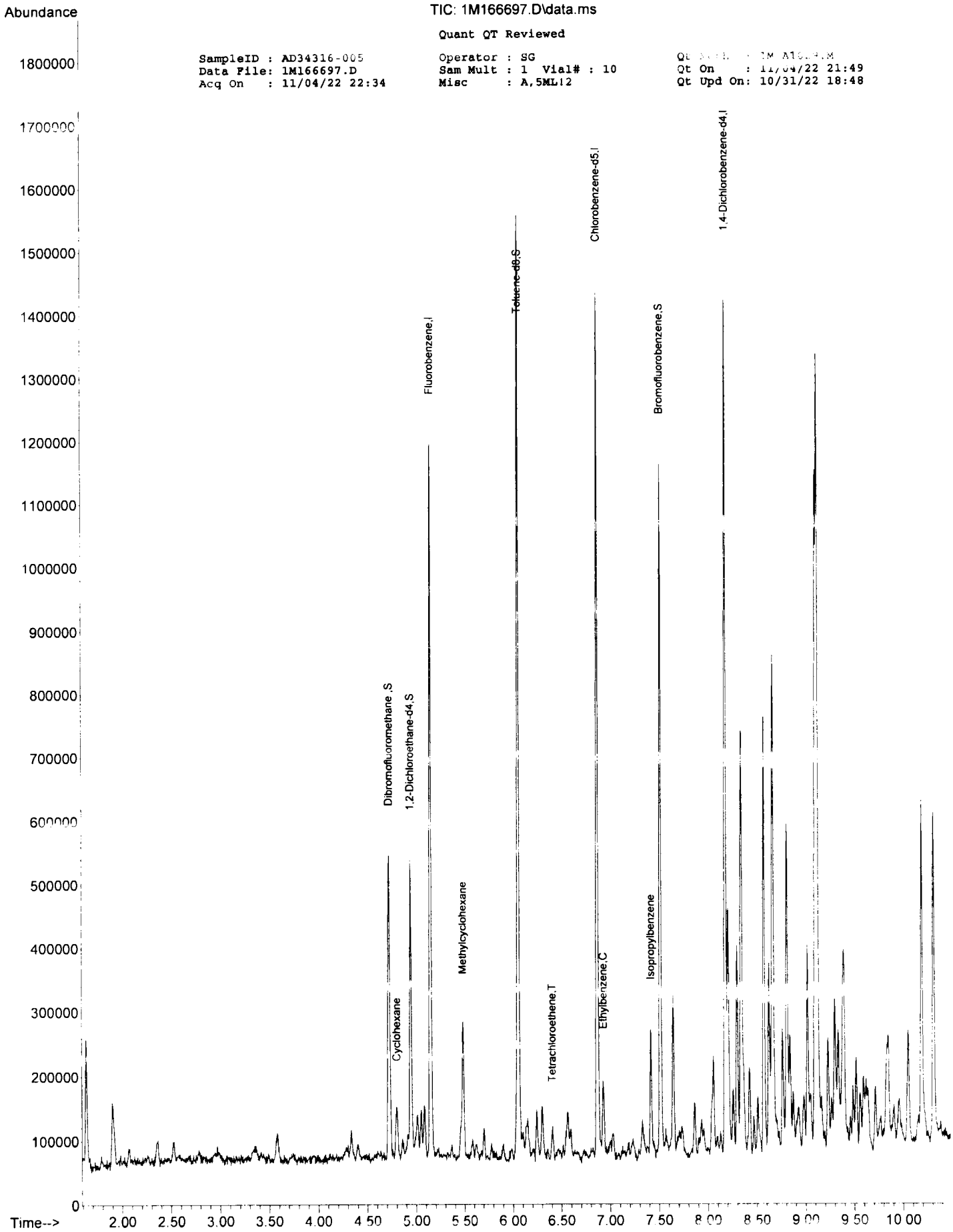
Quantitation Report (QT Reviewed)

SampleID : AD34316-005 Operator : SG Qt Meth : 1M_A1029.M
Data File: 1M166697.D Sam Mult : 1 Vial# : 10 Qt On : 11/04/22 21:49
Acq On : 11/04/22 22:34 Misc : A,5ML!2 Qt Upd On: 10/31/22 18:48

Data Path : G:\GcMsData\2022\GCMS_1\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.150	96	627314	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	514755	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.178	152	282421	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.725	111	192818	31.12	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.73%			
39) 1,2-Dichloroethane-d4	4.944	67	100204	32.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.93%			
66) Toluene-d8	6.056	98	614949	28.12	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.73%			
76) Bromofluorobenzene	7.513	174	217029	29.46	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.20%			
Target Compounds						Qvalue
38) Cyclohexane	4.802	56	23023m	3.5798	ug/l	
46) Methylcyclohexane	5.484	83	49267m	7.7586	ug/l	
65) Tetrachloroethene	6.404	164	7782	1.6113	ug/l	
74) Ethylbenzene	6.928	106	10511m	1.2988	ug/l	
84) Isopropylbenzene	7.416	105	77619m	3.5205	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M166697.D\data.ms
Quant QT Reviewed
SampleID : AD34316-005
Data File: 1M166697.D
Acq On : 11/04/22 22:34
Operator : SG
Sam Mult : 1 Vial# : 10
Misc : A,5ML12
Qt On : 11/04/22 21:49
Qt Upd On: 10/31/22 18:48
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Cyclohexane
Methylcyclohexane
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Ethylbenzene,C
Bromofluorobenzene,S
Isopropylbenzene
1,4-Dichlorobenzene-d4,I
Time-->
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34316-006
Client Id: TMW-19S
Data File: 1M166691.D
Analysis Date: 11/04/22 20:23
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 665549

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

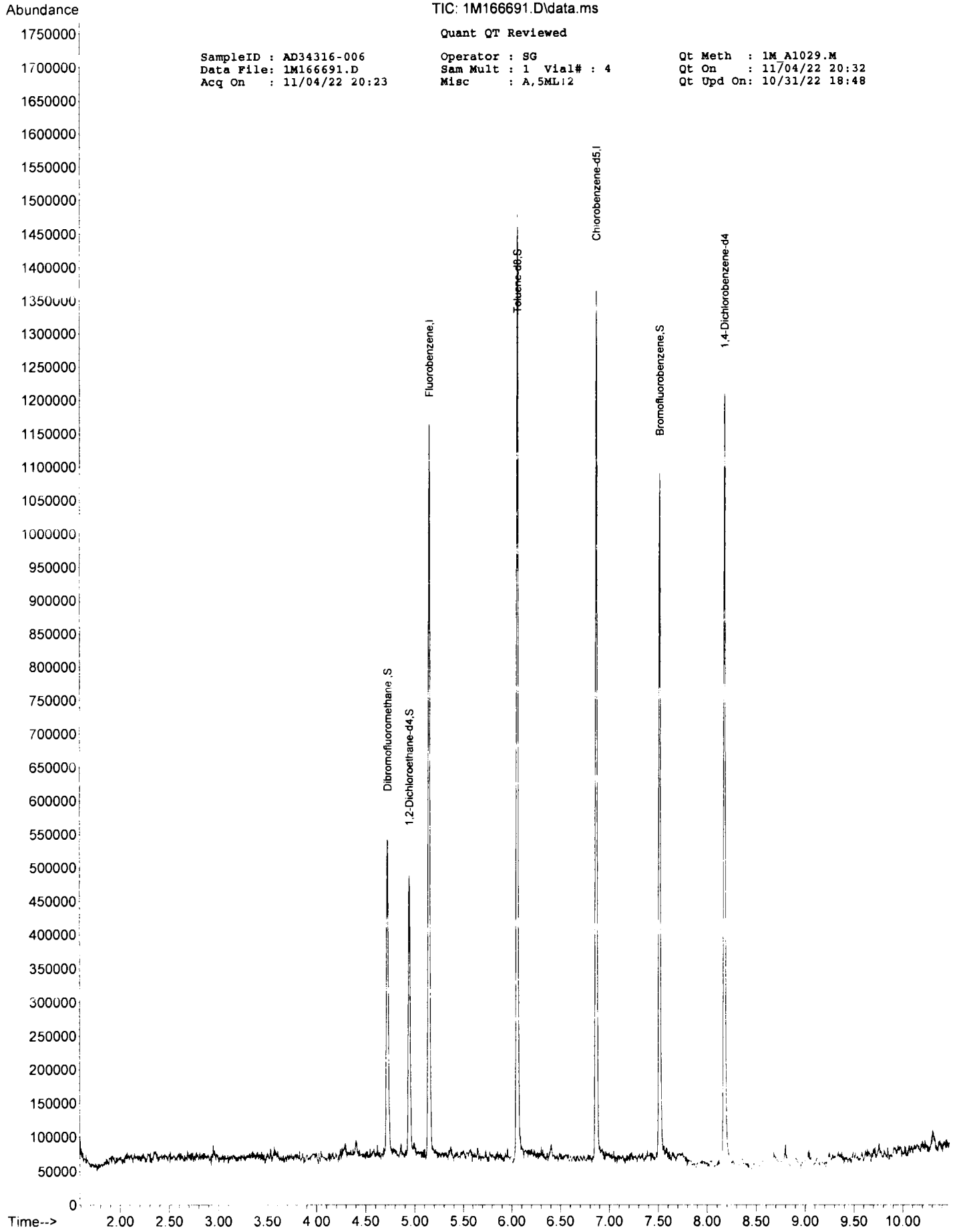
SampleID : AD34316-006 Operator : SG Qt Meth : 1M_A1029.M
Data File: 1M166691.D Sam Mult : 1 Vial# : 4 Qt On : 11/04/22 20:32
Acq On : 11/04/22 20:23 Misc : A,5ML!2 Qt Upd On: 10/31/22 18:48

Data Path : G:\GcMsData\2022\GCMS_1\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.150	96	617604	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	499244	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.179	152	238364	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.725	111	185432	30.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.33%			
39) 1,2-Dichloroethane-d4	4.947	67	97891	32.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 108.07%			
66) Toluene d8	6.056	98	588242	27.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.43%			
76) Bromofluorobenzene	7.516	174	207752	33.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.40%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M166691.D\data.ms
Quant QT Reviewed
SampleID : AD34316-006
Data File: 1M166691.D
Acq On : 11/04/22 20:23
Operator : SG
Sam Mult : 1 Vial# : 4
Misc : A,5ML;2
Qt Meth : 1M_A1029.M
Qt On : 11/04/22 20:32
Qt Upd On: 10/31/22 18:48
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34316-007
Client Id: TRIP BLANK
Data File: 2M175774.D
Analysis Date: 11/04/22 14:02
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 665549

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to co-elution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD34316-007 Operator : SG Qt Meth : 2M_A1025.M
Data File: 2M175774.D Sam Mult : 1 Vial# : 10 Qt On : 11/04/22 14:29
Acq On : 11/04/22 14:02 Misc : A,5ML!2 Qt Upd On: 10/25/22 22:22

Data Path : G:\GcMsData\2022\GCMS_2\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.092	96	112953	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	89958	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	38615	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	30125	28.70	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.67%			
39) 1,2-Dichloroethane-d4	4.904	67	16137	32.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.77%			
66) Toluene-d8	5.952	98	117852	31.77	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.90%			
76) Bromofluorobenzene	7.366	174	31404	28.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.33%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

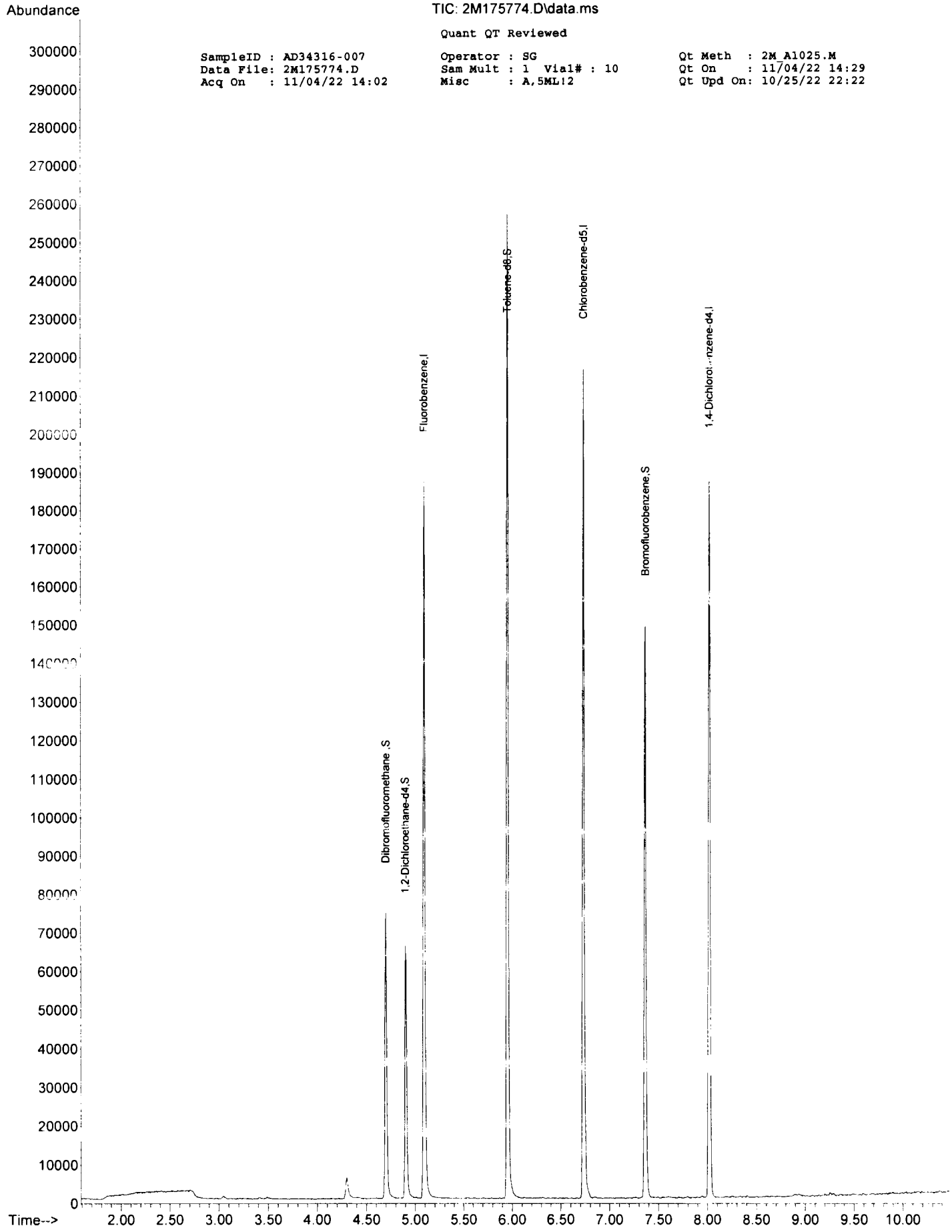
TIC: 2M175774.D\data.ms

Quant QT Reviewed

SampleID : AD34316-007
Data File: 2M175774.D
Acq On : 11/04/22 14:02

Operator : SG
Sam Mult : 1 Vial# : 10
Misc : A,5ML!2

Qt Meth : 2M_A1025.M
Qt On : 11/04/22 14:29
Qt Upd On: 10/25/22 22:22



Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 1M166674.D
Analysis Date: 11/04/22 14:11
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 665549 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK
Data File: 1M166674.D
Acq On : 11/04/22 14:11

Operator : SG
Sam Mult : 1 Vial# : 9
Misc : A,5ML

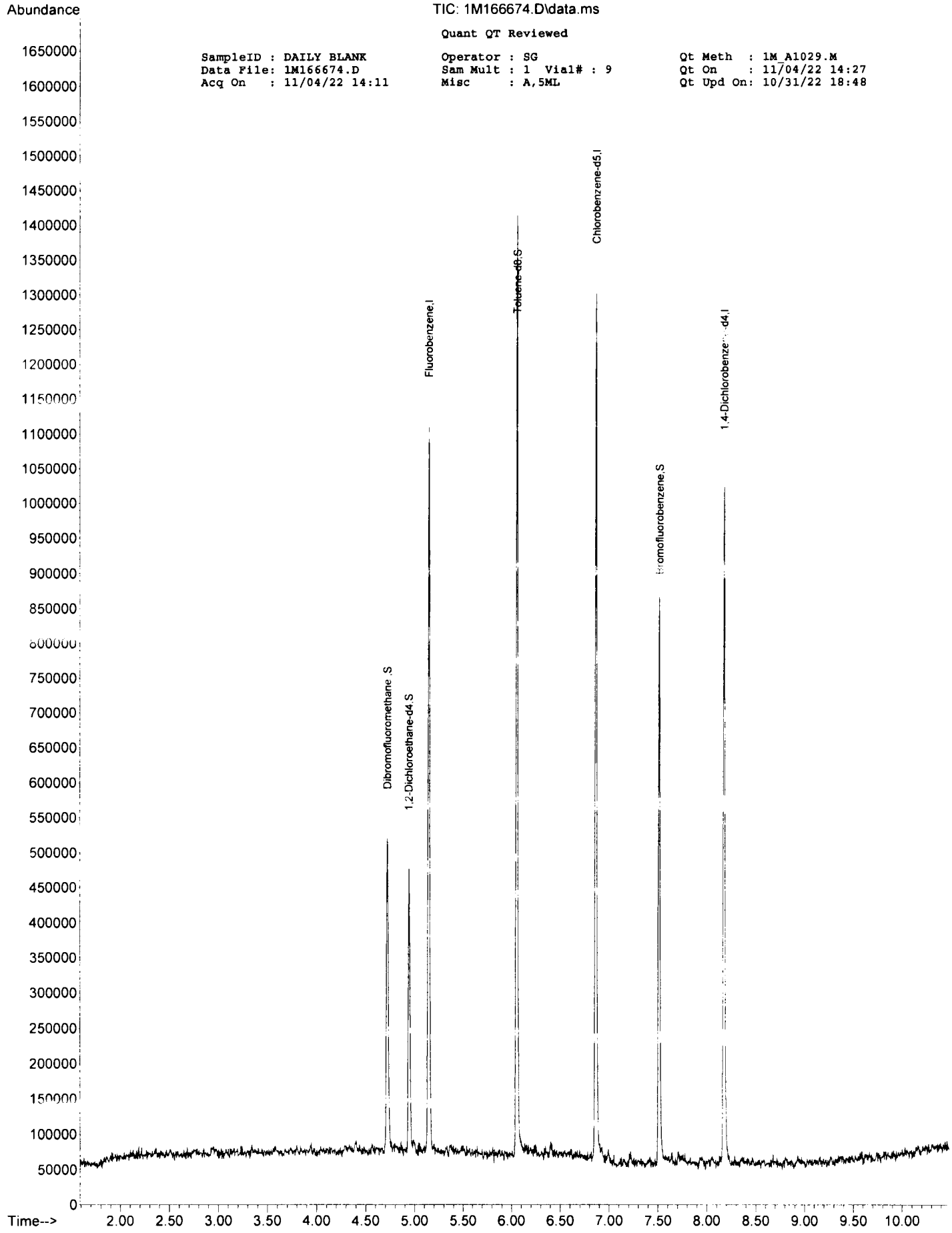
Qt Meth : 1M_A1029.M
Qt On : 11/04/22 14:27
Qt Upd : [illegible] 18:48

Data Path : G:\GcMsData\2022\GCMS_1\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_1\MethodQt\
Qt Prep Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.147	96	578837	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.867	117	478629	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.175	152	204079	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.722	111	174810	30.58	ug/l	0.00
Spiked Amount 30.000			Recovery	=	101.93%	
39) 1,2-Dichloroethane-d4	4.944	67	88598	31.31	ug/l	0.00
Spiked Amount 30.000			Recovery	=	104.37%	
66) Toluene-d8	6.057	98	564524	27.76	ug/l	0.00
Spiked Amount 30.000			Recovery	=	92.53%	
76) Bromofluorobenzene	7.516	174	169565	31.86	ug/l	0.00
Spiked Amount 30.000			Recovery	=	106.20%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 1M166674.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 1M166674.D
Acq On : 11/04/22 14:11
Operator : SG
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 1M_A1029.M
Qt On : 11/04/22 14:27
Qt Upd On: 10/31/22 18:48
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenze...-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M175771.D
Analysis Date: 11/04/22 13:02
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 665549

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK
Data File: 2M175771.D
Acq On : 11/04/22 13:02

Operator : SG
Sam Mult : 1 Vial# : 7
Misc : A,5ML

Qt Meth : 2M_A1025.M
Qt On : 11/04/22 12:51
Qt Upd On: 10/25/22 22:22

Data Path : G:\GcMsData\2022\GCMS_2\Data\11-04-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.093	96	122745	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	97213	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	41165	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.703	111	32795	28.75	ug/l	0.00
Spiked Amount 30.000			Recovery =	95.83%		
39) 1,2-Dichloroethane-d4	4.904	67	17357	32.59	ug/l	0.00
Spiked Amount 30.000			Recovery =	108.63%		
66) Toluene-d8	5.952	98	128602	32.08	ug/l	0.00
Spiked Amount 30.000			Recovery =	106.93%		
76) Bromofluorobenzene	7.367	174	33839	28.31	ug/l	0.00
Spiked Amount 30.000			Recovery =	94.37%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

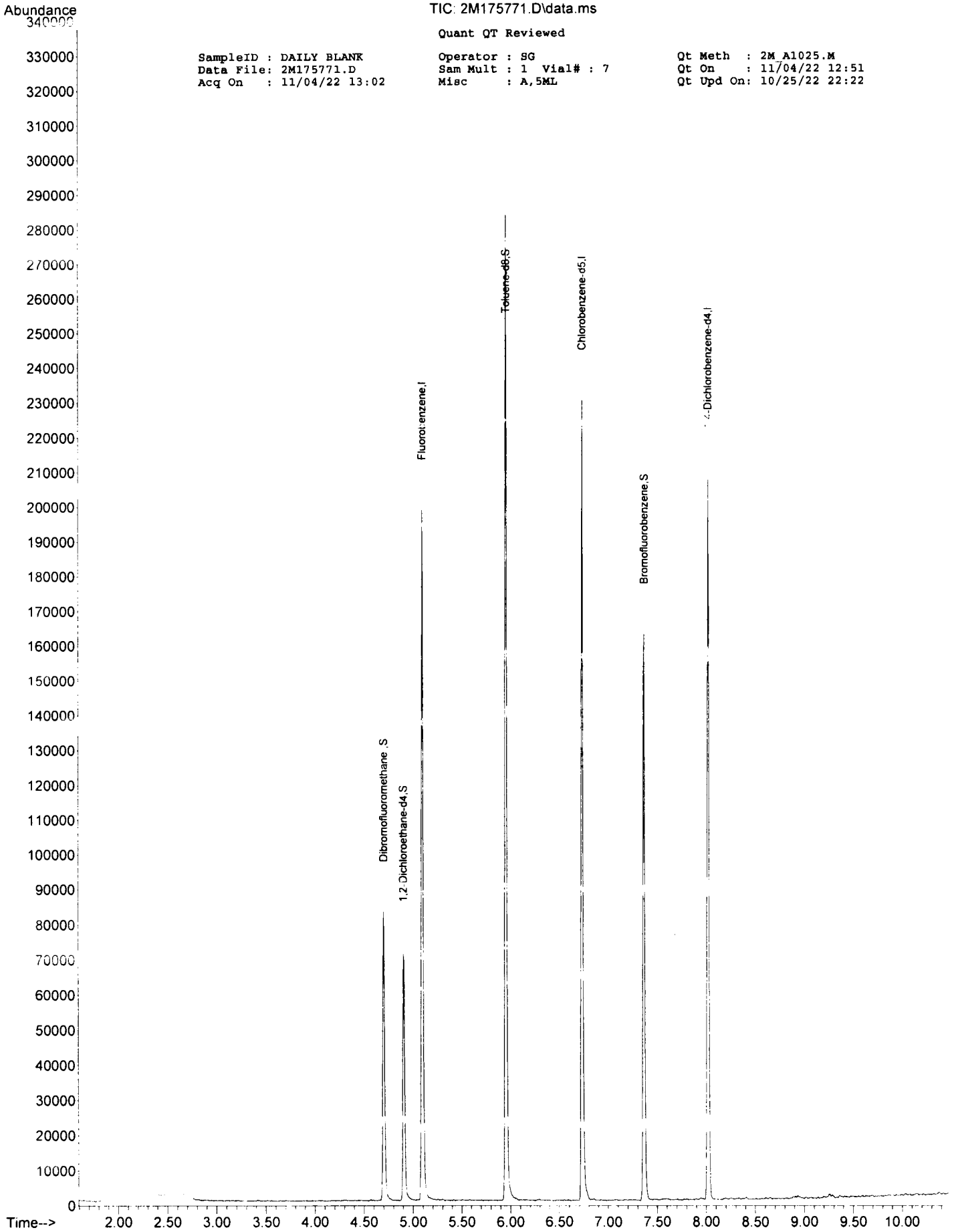
TIC: 2M175771.D\data.ms

Quant QT Reviewed

SampleID : DAILY BLANK
Data File: 2M175771.D
Acq On : 11/04/22 13:02

Operator : SG
Sam Mult : 1 Vial# : 7
Misc : A,5ML

Qt Meth : 2M_A1025.M
Qt On : 11/04/22 12:51
Qt Upd On: 10/25/22 22:22



FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
1M166674.D	DAILY BLANK	A	11/04/22 14:11	1		102	104	93	106		
2M175771.D	DAILY BLANK	A	11/04/22 13:02	1		96	109	107	94		
1M166681.D	AD34316-001	A	11/04/22 16:44	1		103	110	94	101		
1M166682.D	AD34316-002	A	11/04/22 17:06	1		104	110	95	102		
1M166698.D	AD34316-003(5X)	A	11/04/22 22:56	1		102	109	94	112		
1M166692.D	AD34316-004	A	11/04/22 20:45	1		102	112	92	109		
1M166697.D	AD34316-005	A	11/04/22 22:34	1		104	109	94	98		
1M166691.D	AD34316-006	A	11/04/22 20:23	1		101	108	92	111		
2M175774.D	AD34316-007	A	11/04/22 14:02	1		96	110	106	93		
1M166678.D	MBS105154	A	11/04/22 15:39	1		99	106	95	103		
1M166680.D	AD34187-001(50X)(T)	A	11/04/22 16:22	1		101	111	91	97		
1M166687.D	AD34187-001(50X)(T:M	A	11/04/22 18:55	1		102	113	93	107		
1M166688.D	AD34187-001(50X)(T:M	A	11/04/22 19:17	1		102	108	93	101		
2M175779.D	MBS105156	A	11/04/22 15:40	1		99	100	104	92		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105154

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M166678.D	MBS105154	11/4/2022 3:39:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	36.2275	0	20	181*	50	150
Dichlorodifluoromethane	1	29.7159	0	20	149	50	150
Chloromethane	1	22.9077	0	20	115	50	150
Bromomethane	1	9.8145	0	20	49*	50	150
Vinyl Chloride	1	21.7715	0	20	109	50	150
Chloroethane	1	17.1613	0	20	86	50	150
Trichlorofluoromethane	1	18.2674	0	20	91	50	150
Ethyl ether	1	16.6948	0	20	83	50	150
Furan	1	18.8411	0	20	94	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.0673	0	20	85	50	150
Methylene Chloride	1	15.5218	0	20	78	70	130
Acrolein	1	88.3404	0	100	88	50	150
Acrylonitrile	1	15.3076	0	20	77	50	150
Iodomethane	1	11.2366	0	20	56	50	150
Acetone	1	95.2255	0	100	95	50	150
Carbon Disulfide	1	15.4738	0	20	77	50	150
t-Butyl Alcohol	1	82.2885	0	100	82	50	150
n-Hexane	1	23.0489	0	20	115	70	130
Di-isopropyl-ether	1	17.172	0	20	86	70	130
1,1-Dichloroethene	1	15.8275	0	20	79	70	130
Methyl Acetate	1	18.6219	0	20	93	50	150
Methyl-t-butyl ether	1	13.9424	0	20	70	70	130
1,1-Dichloroethane	1	16.6477	0	20	83	70	130
trans-1,2-Dichloroethene	1	14.9319	0	20	75	70	130
Ethyl-t-butyl ether	1	15.5273	0	20	78	70	130
cis-1,2-Dichloroethene	1	16.8069	0	20	84	70	130
Bromochloromethane	1	16.5965	0	20	83	70	130
2,2-Dichloropropane	1	23.8965	0	20	119	70	130
Ethyl acetate	1	15.721	0	20	79	50	150
1,4-Dioxane	1	674.2047	0	1000	67	50	150
1,1-Dichloropropene	1	14.7452	0	20	74	70	130
Chloroform	1	16.0437	0	20	80	70	130
Cyclohexane	1	19.2535	0	20	96	70	130
1,2-Dichloroethane	1	15.6345	0	20	78	70	130
2-Butanone	1	18.3967	0	20	92	50	150
1,1,1-Trichloroethane	1	16.2721	0	20	81	70	130
Carbon Tetrachloride	1	16.4939	0	20	82	50	150
Vinyl Acetate	1	16.5915	0	20	83	50	150
Bromodichloromethane	1	14.9537	0	20	75	70	130
Methylcyclohexane	1	15.7422	0	20	79	70	130
Dibromomethane	1	17.5924	0	20	88	70	130
1,2-Dichloropropane	1	16.3218	0	20	82	70	130
Trichloroethene	1	18.004	0	20	90	70	130
Benzene	1	14.5929	0	20	73	70	130
tert-Amyl methyl ether	1	14.5294	0	20	73	70	130
Iso-propylacetate	1	14.3786	0	20	72	70	130
Methyl methacrylate	1	16.5579	0	20	83	70	130
Dibromochloromethane	1	17.7428	0	20	89	70	130
2-Chloroethylvinylether	1	14.9147	0	20	75	70	130
cis-1,3-Dichloropropene	1	15.8051	0	20	79	70	130
trans-1,3-Dichloropropene	1	15.9125	0	20	80	70	130
Ethyl methacrylate	1	16.0199	0	20	80	70	130
1,1,2-Trichloroethane	1	15.7454	0	20	79	70	130
1,2-Dibromoethane	1	15.5551	0	20	78	70	130
1,3-Dichloropropane	1	14.672	0	20	73	70	130
4-Methyl-2-Pentanone	1	15.1578	0	20	76	50	150
2-Hexanone	1	14.0697	0	20	70	50	150
Tetrachloroethene	1	17.0341	0	20	85	50	150
Toluene	1	15.2672	0	20	76	70	130
1,1,1,2-Tetrachloroethane	1	17.1772	0	20	86	70	130
Chlorobenzene	1	15.9685	0	20	80	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105154

Method: 8260D	Matrix: Aqueous		Units: ug/L	QC Type: MBS		
Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	12.7354	0	20	64*	70	130
n-Amyl acetate	1	13.9398	0	20	70	70	130
Bromoform	**1**	**17.4017**	**0**	**20**	**87**	**70**	**130**
Ethylbenzene	**1**	**14.4978**	**0**	**20**	**72**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**14.3377**	**0**	**20**	**72**	**70**	**130**
Styrene	**1**	**12.9237**	**0**	**20**	**65***	**70**	**130**
m&p-Xylenes	**1**	**26.5597**	**0**	**40**	**66***	**70**	**130**
o-Xylene	**1**	**12.6423**	**0**	**20**	**63***	**70**	**130**
trans-1,4-Dichloro-2-butene	1	14.2677	0	20	71	50	150
1,3-Dichlorobenzene	**1**	**16.0717**	**0**	**20**	**80**	**70**	**130**
1,4-Dichlorobenzene	**1**	**15.8112**	**0**	**20**	**79**	**70**	**130**
1,2-Dichlorobenzene	**1**	**17.3972**	**0**	**20**	**87**	**70**	**130**
Isopropylbenzene	**1**	**14.808**	**0**	**20**	**74**	**70**	**130**
Cyclohexanone	1	58.3449	0	100	58	50	150
Camphene	1	14.8079	0	20	74	70	130
1,2,3-Trichloropropane	1	14.5308	0	20	73	70	130
2-Chlorotoluene	1	14.7279	0	20	74	70	130
p-Ethyltoluene	1	15.1662	0	20	76	70	130
4-Chlorotoluene	1	14.8103	0	20	74	70	130
n-Propylbenzene	1	16.6005	0	20	83	70	130
Bromobenzene	1	12.993	0	20	65*	70	130
1,3,5-Trimethylbenzene	1	13.6918	0	20	68*	70	130
Butyl methacrylate	1	14.9185	0	20	75	70	130
t-Butylbenzene	1	14.4407	0	20	72	70	130
1,2,4-Trimethylbenzene	1	14.4243	0	20	72	70	130
sec-Butylbenzene	1	14.1223	0	20	71	70	130
4-Isopropyltoluene	1	13.8989	0	20	69*	70	130
n-Butylbenzene	1	15.2973	0	20	76	70	130
p-Diethylbenzene	1	16.0843	0	20	80	70	130
1,2,4,5-Tetramethylbenzene	1	12.0027	0	20	60*	70	130
1,2-Dibromo-3-Chloropropane	**1**	**17.8742**	**0**	**20**	**89**	**50**	**150**
Camphor	1	104.4508	0	200	52	20	150
Hexachlorobutadiene	1	23.2479	0	20	116	50	150
1,2,4-Trichlorobenzene	**1**	**16.8233**	**0**	**20**	**84**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**17.8598**	**0**	**20**	**89**	**70**	**130**
Naphthalene	1	15.2304	0	20	76	50	150

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Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105154

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M166687.D	AD34187-001(50X)(T:MS)	11/4/2022 6:55:00 PM
Non Spike(If applicable):	1M166680.D	AD34187-001(50X)(T)	11/4/2022 4:22:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	84.63	20	-420*	50	150
Dichlorodifluoromethane	1	0	69.495	20	-350*	50	150
Chloromethane	1	0	0	20	0*	50	150
Bromomethane	1	0	0	20	0*	50	150
Vinyl Chloride	1	0	0	20	0*	50	150
Chloroethane	1	0	0	20	0*	50	150
Trichlorofluoromethane	1	0	0	20	0*	50	150
Ethyl ether	1	0	0	20	0*	50	150
Furan	1	0	0	20	0*	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	50	150
Methylene Chloride	1	0	0	20	0*	70	130
Acrolein	1	0	0	100	0*	50	150
Acrylonitrile	1	0	0	20	0*	50	150
Iodomethane	1	0	0	20	0*	50	150
Acetone	1	0	0	100	0*	50	150
Carbon Disulfide	1	0	0	20	0*	50	150
t-Butyl Alcohol	1	0	0	100	0*	50	150
n-Hexane	1	0	0	20	0*	70	130
Di-isopropyl-ether	1	0	0	20	0*	70	130
1,1-Dichloroethene	1	0	0	20	0*	70	130
Methyl Acetate	1	0	85.645	20	-430*	50	150
Methyl-t-butyl ether	1	0	0	20	0*	70	130
1,1-Dichloroethane	1	0	0	20	0*	70	130
trans-1,2-Dichloroethene	1	0	0	20	0*	70	130
Ethyl-t-butyl ether	1	0	0	20	0*	70	130
cis-1,2-Dichloroethene	1	0	0	20	0*	70	130
Bromochloromethane	1	0	0	20	0*	70	130
2,2-Dichloropropane	1	0	0	20	0*	70	130
Ethyl acetate	1	0	0	20	0*	50	150
1,4-Dioxane	1	0	0	1000	0*	50	150
1,1-Dichloropropene	1	0	0	20	0*	70	130
Chloroform	1	0	0	20	0*	70	130
Cyclohexane	1	0	0	20	0*	70	130
1,2-Dichloroethane	1	0	0	20	0*	70	130
2-Butanone	1	0	0	20	0*	50	150
1,1,1-Trichloroethane	1	0	0	20	0*	70	130
Carbon Tetrachloride	1	0	0	20	0*	50	150
Vinyl Acetate	1	0	0	20	0*	50	150
Bromodichloromethane	1	0	0	20	0*	70	130
Methylcyclohexane	1	0	0	20	0*	70	130
Dibromomethane	1	0	0	20	0*	70	130
1,2-Dichloropropane	1	0	0	20	0*	70	130
Trichloroethene	1	0	0	20	0*	70	130
Benzene	1	0	0	20	0*	70	130
tert-Amyl methyl ether	1	0	0	20	0*	70	130
Iso-propylacetate	1	0	0	20	0*	70	130
Methyl methacrylate	1	0	0	20	0*	70	130
Dibromochloromethane	1	0	0	20	0*	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	0	0	20	0*	70	130
trans-1,3-Dichloropropene	1	0	0	20	0*	70	130
Ethyl methacrylate	1	0	0	20	0*	70	130
1,1,2-Trichloroethane	1	0	0	20	0*	70	130
1,2-Dibromoethane	1	0	0	20	0*	70	130
1,3-Dichloropropane	1	0	0	20	0*	70	130
4-Methyl-2-Pentanone	1	0	55.5	20	-280*	50	150
2-Hexanone	1	0	0	20	0*	50	150
Tetrachloroethene	1	0	0	20	0*	50	150
Toluene	1	0	0	20	0*	70	130
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	70	130
Chlorobenzene	1	0	0	20	0*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105154

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	51.89	20	-260*	70	130
n-Amyl acetate	1	0	53.67	20	-270*	70	130
Bromoform	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Ethylbenzene	**1**	**0**	**51.345**	**20**	**-260***	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Styrene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
m&p-Xylenes	**1**	**0**	**0**	**40**	**0***	**70**	**130**
o-Xylene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	50	150
1,3-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,4-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,2-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Cyclohexanone	1	0	410.915	100	-410*	50	150
Camphene	1	0	50.82	20	-250*	70	130
1,2,3-Trichloropropane	1	0	0	20	0*	70	130
2-Chlorotoluene	1	0	0	20	0*	70	130
p-Ethyltoluene	1	0	0	20	0*	70	130
4-Chlorotoluene	1	0	0	20	0*	70	130
n-Propylbenzene	1	0	69.825	20	-350*	70	130
Bromobenzene	1	0	0	20	0*	70	130
1,3,5-Trimethylbenzene	1	0	0	20	0*	70	130
Butyl methacrylate	1	0	0	20	0*	70	130
t-Butylbenzene	1	0	0	20	0*	70	130
1,2,4-Trimethylbenzene	1	0	0	20	0*	70	130
sec-Butylbenzene	1	0	0	20	0*	70	130
4-Isopropyltoluene	1	0	0	20	0*	70	130
n-Butylbenzene	1	0	0	20	0*	70	130
p-Diethylbenzene	1	0	0	20	0*	70	130
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	70	130
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**20**	**0***	**50**	**150**
Camphor	1	0	0	200	0*	20	150
Hexachlorobutadiene	1	0	66.69	20	-330*	50	150
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**0**	**56.215**	**20**	**-280***	**70**	**130**
Naphthalene	1	0	0	20	0*	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105154

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M166688.D	AD34187-001(50X)(T:MSD)	11/4/2022 7:17:00 PM
Non Spike(If applicable):	1M166680.D	AD34187-001(50X)(T)	11/4/2022 4:22:00 PM
Inst Blank(If applicable):			

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	84.63	20	-420*	50	150
Dichlorodifluoromethane	1	0	69.495	20	-350*	50	150
Chloromethane	1	0	0	20	0*	50	150
Bromomethane	1	0	0	20	0*	50	150
Vinyl Chloride	1	0	0	20	0*	50	150
Chloroethane	1	0	0	20	0*	50	150
Trichlorofluoromethane	1	0	0	20	0*	50	150
Ethyl ether	1	0	0	20	0*	50	150
Furan	1	0	0	20	0*	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	50	150
Methylene Chloride	1	0	0	20	0*	70	130
Acrolein	1	0	0	100	0*	50	150
Acrylonitrile	1	0	0	20	0*	50	150
Iodomethane	1	0	0	20	0*	50	150
Acetone	1	0	0	100	0*	50	150
Carbon Disulfide	1	0	0	20	0*	50	150
t-Butyl Alcohol	1	0	0	100	0*	50	150
n-Hexane	1	0	0	20	0*	70	130
Di-isopropyl-ether	1	0	0	20	0*	70	130
1,1-Dichloroethene	1	0	0	20	0*	70	130
Methyl Acetate	1	0	85.645	20	-430*	50	150
Methyl-t-butyl ether	1	0	0	20	0*	70	130
1,1-Dichloroethane	1	0	0	20	0*	70	130
trans-1,2-Dichloroethene	1	0	0	20	0*	70	130
Ethyl-t-butyl ether	1	0	0	20	0*	70	130
cis-1,2-Dichloroethene	1	0	0	20	0*	70	130
Bromochloromethane	1	0	0	20	0*	70	130
2,2-Dichloropropane	1	0	0	20	0*	70	130
Ethyl acetate	1	0	0	20	0*	50	150
1,4-Dioxane	1	0	0	1000	0*	50	150
1,1-Dichloropropene	1	0	0	20	0*	70	130
Chloroform	1	0	0	20	0*	70	130
Cyclohexane	1	0	0	20	0*	70	130
1,2-Dichloroethane	1	0	0	20	0*	70	130
2-Butanone	1	0	0	20	0*	50	150
1,1,1-Trichloroethane	1	0	0	20	0*	70	130
Carbon Tetrachloride	1	0	0	20	0*	50	150
Vinyl Acetate	1	0	0	20	0*	50	150
Bromodichloromethane	1	0	0	20	0*	70	130
Methylcyclohexane	1	0	0	20	0*	70	130
Dibromomethane	1	0	0	20	0*	70	130
1,2-Dichloropropane	1	0	0	20	0*	70	130
Trichloroethene	1	0	0	20	0*	70	130
Benzene	1	0	0	20	0*	70	130
tert-Amyl methyl ether	1	0	0	20	0*	70	130
Iso-propylacetate	1	0	0	20	0*	70	130
Methyl methacrylate	1	0	0	20	0*	70	130
Dibromochloromethane	1	0	0	20	0*	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	0	0	20	0*	70	130
trans-1,3-Dichloropropene	1	0	0	20	0*	70	130
Ethyl methacrylate	1	0	0	20	0*	70	130
1,1,2-Trichloroethane	1	0	0	20	0*	70	130
1,2-Dibromoethane	1	0	0	20	0*	70	130
1,3-Dichloropropane	1	0	0	20	0*	70	130
4-Methyl-2-Pentanone	1	0	55.5	20	-280*	50	150
2-Hexanone	1	0	0	20	0*	50	150
Tetrachloroethene	1	0	0	20	0*	50	150
Toluene	1	0	0	20	0*	70	130
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	70	130
Chlorobenzene	1	0	0	20	0*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105154

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	51.89	20	-260*	70	130
n-Amyl acetate	1	0	53.67	20	-270*	70	130
Bromoform	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Ethylbenzene	**1**	**0**	**51.345**	**20**	**-260***	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Styrene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
m&p-Xylenes	**1**	**0**	**0**	**40**	**0***	**70**	**130**
o-Xylene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	50	150
1,3-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,4-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,2-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Cyclohexanone	1	0	410.915	100	-410*	50	150
Camphene	1	0	50.82	20	-250*	70	130
1,2,3-Trichloropropane	1	0	0	20	0*	70	130
2-Chlorotoluene	1	0	0	20	0*	70	130
p-Ethyltoluene	1	0	0	20	0*	70	130
4-Chlorotoluene	1	0	0	20	0*	70	130
n-Propylbenzene	1	0	69.825	20	-350*	70	130
Bromobenzene	1	0	0	20	0*	70	130
1,3,5-Trimethylbenzene	1	0	0	20	0*	70	130
Butyl methacrylate	1	0	0	20	0*	70	130
t-Butylbenzene	1	0	0	20	0*	70	130
1,2,4-Trimethylbenzene	1	0	0	20	0*	70	130
sec-Butylbenzene	1	0	0	20	0*	70	130
4-Isopropyltoluene	1	0	0	20	0*	70	130
n-Butylbenzene	1	0	0	20	0*	70	130
p-Diethylbenzene	1	0	0	20	0*	70	130
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	70	130
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**20**	**0***	**50**	**150**
Camphor	1	0	0	200	0*	20	150
Hexachlorobutadiene	1	0	66.69	20	-330*	50	150
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**0**	**56.215**	**20**	**-280***	**70**	**130**
Naphthalene	1	0	0	20	0*	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105154

	Data File	Sample ID:	Analysis Date
Spike or Dup:	1M166688.D	AD34187-001(50X)(T:MSD)	11/4/2022 7:17:00 PM
Duplicate(If applicable):	1M166687.D	AD34187-001(50X)(T:MS)	11/4/2022 6:55:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	0	0	NA	30
Dichlorodifluoromethane	1	0	0	NA	30
Chloromethane	1	0	0	NA	30
Bromomethane	1	0	0	NA	30
Vinyl Chloride	1	0	0	NA	40
Chloroethane	1	0	0	NA	30
Trichlorofluoromethane	1	0	0	NA	30
Ethyl ether	1	0	0	NA	30
Furan	1	0	0	NA	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	NA	30
Methylene Chloride	1	0	0	NA	30
Acrolein	1	0	0	NA	30
Acrylonitrile	1	0	0	NA	30
Iodomethane	1	0	0	NA	30
Acetone	1	0	0	NA	30
Carbon Disulfide	1	0	0	NA	30
t-Butyl Alcohol	1	0	0	NA	30
n-Hexane	1	0	0	NA	30
Di-isopropyl-ether	1	0	0	NA	30
1,1-Dichloroethene	1	0	0	NA	40
Methyl Acetate	1	0	0	NA	30
Methyl-t-butyl ether	1	0	0	NA	30
1,1-Dichloroethane	1	0	0	NA	40
trans-1,2-Dichloroethene	1	0	0	NA	30
Ethyl-t-butyl ether	1	0	0	NA	30
cis-1,2-Dichloroethene	1	0	0	NA	30
Bromochloromethane	1	0	0	NA	30
2,2-Dichloropropane	1	0	0	NA	30
Ethyl acetate	1	0	0	NA	30
1,4-Dioxane	1	0	0	NA	30
1,1-Dichloropropene	1	0	0	NA	30
Chloroform	1	0	0	NA	40
Cyclohexane	1	0	0	NA	30
1,2-Dichloroethane	1	0	0	NA	40
2-Butanone	1	0	0	NA	40
1,1,1-Trichloroethane	1	0	0	NA	30
Carbon Tetrachloride	1	0	0	NA	40
Vinyl Acetate	1	0	0	NA	30
Bromodichloromethane	1	0	0	NA	30
Methylcyclohexane	1	0	0	NA	30
Dibromomethane	1	0	0	NA	30
1,2-Dichloropropane	1	0	0	NA	30
Trichloroethene	1	0	0	NA	40
Benzene	1	0	0	NA	40
tert-Amyl methyl ether	1	0	0	NA	30
Iso-propylacetate	1	0	0	NA	30
Methyl methacrylate	1	0	0	NA	30
Dibromochloromethane	1	0	0	NA	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	0	0	NA	30
trans-1,3-Dichloropropene	1	0	0	NA	30
Ethyl methacrylate	1	0	0	NA	30
1,1,2-Trichloroethane	1	0	0	NA	30
1,2-Dibromoethane	1	0	0	NA	30
1,3-Dichloropropane	1	0	0	NA	30
4-Methyl-2-Pentanone	1	0	0	NA	30
2-Hexanone	1	0	0	NA	30
Tetrachloroethene	1	0	0	NA	40
Toluene	1	0	0	NA	40
1,1,1,2-Tetrachloroethane	1	0	0	NA	30
Chlorobenzene	1	0	0	NA	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105154

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	0	0	NA	30
n-Amyl acetate	1	0	0	NA	30
Bromoform	**1**	**0**	**0**	**NA**	**30**
Ethylbenzene	**1**	**0**	**0**	**NA**	**30**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**NA**	**30**
Styrene	**1**	**0**	**0**	**NA**	**30**
m&p-Xylenes	**1**	**0**	**0**	**NA**	**30**
o-Xylene	**1**	**0**	**0**	**NA**	**30**
trans-1,4-Dichloro-2-butene	1	0	0	NA	30
1,3-Dichlorobenzene	**1**	**0**	**0**	**NA**	**30**
1,4-Dichlorobenzene	**1**	**0**	**0**	**NA**	**40**
1,2-Dichlorobenzene	**1**	**0**	**0**	**NA**	**40**
Isopropylbenzene	**1**	**0**	**0**	**NA**	**30**
Cyclohexanone	1	0	0	NA	30
Camphene	1	0	0	NA	30
1,2,3-Trichloropropane	1	0	0	NA	30
2-Chlorotoluene	1	0	0	NA	30
p-Ethyltoluene	1	0	0	NA	30
4-Chlorotoluene	1	0	0	NA	30
n-Propylbenzene	1	0	0	NA	40
Bromobenzene	1	0	0	NA	30
1,3,5-Trimethylbenzene	1	0	0	NA	30
Butyl methacrylate	1	0	0	NA	30
t-Butylbenzene	1	0	0	NA	30
1,2,4-Trimethylbenzene	1	0	0	NA	30
sec-Butylbenzene	1	0	0	NA	40
4-Isopropyltoluene	1	0	0	NA	30
n-Butylbenzene	1	0	0	NA	30
p-Diethylbenzene	1	0	0	NA	30
1,2,4,5-Tetramethylbenzene	1	0	0	NA	30
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**NA**	**30**
Camphor	1	0	0	NA	30
Hexachlorobutadiene	1	0	0	NA	30
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**NA**	**30**
1,2,3-Trichlorobenzene	**1**	**0**	**0**	**NA**	**30**
Naphthalene	1	0	0	NA	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105156

Data File	Sample ID:	Analysis Date
Spike or Dup: 2M175779.D	MBS105156	11/4/2022 3:40:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	17.8866	0	20	89	50	150
Dichlorodifluoromethane	**1**	**14.6071**	**0**	**20**	**73**	**50**	**150**
Chloromethane	**1**	**14.1466**	**0**	**20**	**71**	**50**	**150**
Bromomethane	**1**	**19.8972**	**0**	**20**	**99**	**50**	**150**
Vinyl Chloride	**1**	**16.8214**	**0**	**20**	**84**	**50**	**150**
Chloroethane	**1**	**18.3052**	**0**	**20**	**92**	**50**	**150**
Trichlorofluoromethane	**1**	**19.7274**	**0**	**20**	**99**	**50**	**150**
Ethyl ether	1	16.397	0	20	82	50	150
Furan	1	16.6384	0	20	83	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**17.2853**	**0**	**20**	**86**	**50**	**150**
Methylene Chloride	**1**	**17.3241**	**0**	**20**	**87**	**70**	**130**
Acrolein	1	74.2977	0	100	74	50	150
Acrylonitrile	1	16.4822	0	20	82	50	150
Iodomethane	1	10.7026	0	20	54	50	150
Acetone	**1**	**80.6739**	**0**	**100**	**81**	**50**	**150**
Carbon Disulfide	**1**	**16.1512**	**0**	**20**	**81**	**50**	**150**
t-Butyl Alcohol	1	74.1038	0	100	74	50	150
n-Hexane	1	17.2902	0	20	86	70	130
Di-isopropyl-ether	1	16.9021	0	20	85	70	130
1,1-Dichloroethene	**1**	**17.6402**	**0**	**20**	**88**	**70**	**130**
Methyl Acetate	**1**	**16.11**	**0**	**20**	**81**	**50**	**150**
Methyl-t-butyl ether	**1**	**17.5433**	**0**	**20**	**88**	**70**	**130**
1,1-Dichloroethane	**1**	**17.6138**	**0**	**20**	**88**	**70**	**130**
trans-1,2-Dichloroethene	**1**	**17.6968**	**0**	**20**	**88**	**70**	**130**
Ethyl-t-butyl ether	1	17.5271	0	20	88	70	130
cis-1,2-Dichloroethene	**1**	**17.6936**	**0**	**20**	**88**	**70**	**130**
Bromochloromethane	**1**	**17.8227**	**0**	**20**	**89**	**70**	**130**
2,2-Dichloropropane	1	18.0987	0	20	90	70	130
Ethyl acetate	1	16.7967	0	20	84	50	150
1,4-Dioxane	**1**	**915.1966**	**0**	**1000**	**92**	**50**	**150**
1,1-Dichloropropene	1	18.6805	0	20	93	70	130
Chloroform	**1**	**18.5062**	**0**	**20**	**93**	**70**	**130**
Cyclohexane	**1**	**17.539**	**0**	**20**	**88**	**70**	**130**
1,2-Dichloroethane	**1**	**19.0241**	**0**	**20**	**95**	**70**	**130**
2-Butanone	**1**	**16.6632**	**0**	**20**	**83**	**50**	**150**
1,1,1-Trichloroethane	**1**	**19.1087**	**0**	**20**	**96**	**70**	**130**
Carbon Tetrachloride	**1**	**18.687**	**0**	**20**	**93**	**50**	**150**
Vinyl Acetate	1	16.4749	0	20	82	50	150
Bromodichloromethane	**1**	**17.6654**	**0**	**20**	**88**	**70**	**130**
Methylcyclohexane	**1**	**18.9243**	**0**	**20**	**95**	**70**	**130**
Dibromomethane	1	16.6393	0	20	83	70	130
1,2-Dichloropropane	**1**	**18.0155**	**0**	**20**	**90**	**70**	**130**
Trichloroethene	**1**	**18.2367**	**0**	**20**	**91**	**70**	**130**
Benzene	**1**	**18.2392**	**0**	**20**	**91**	**70**	**130**
tert-Amyl methyl ether	1	17.3282	0	20	87	70	130
Iso-propylacetate	1	15.9731	0	20	80	70	130
Methyl methacrylate	1	19.0966	0	20	95	70	130
Dibromochloromethane	**1**	**18.298**	**0**	**20**	**91**	**70**	**130**
2-Chloroethylvinylether	1	19.3979	0	20	97	70	130
cis-1,3-Dichloropropene	**1**	**17.6901**	**0**	**20**	**88**	**70**	**130**
trans-1,3-Dichloropropene	**1**	**17.1277**	**0**	**20**	**86**	**70**	**130**
Ethyl methacrylate	1	17.1669	0	20	86	70	130
1,1,2-Trichloroethane	**1**	**19.0401**	**0**	**20**	**95**	**70**	**130**
1,2-Dibromoethane	**1**	**19.3652**	**0**	**20**	**97**	**70**	**130**
1,3-Dichloropropane	1	19.0263	0	20	95	70	130
4-Methyl-2-Pentanone	**1**	**16.9252**	**0**	**20**	**85**	**50**	**150**
2-Hexanone	**1**	**16.8198**	**0**	**20**	**84**	**50**	**150**
Tetrachloroethene	**1**	**18.1698**	**0**	**20**	**91**	**50**	**150**
Toluene	**1**	**19.0942**	**0**	**20**	**95**	**70**	**130**
1,1,1,2-Tetrachloroethane	1	18.3702	0	20	92	70	130
Chlorobenzene	**1**	**19.2455**	**0**	**20**	**96**	**70**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105156

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.9399	0	20	85	70	130
n-Amyl acetate	1	17.4026	0	20	87	70	130
Bromoform	**1**	**16.1153**	**0**	**20**	**81**	**70**	**130**
Ethylbenzene	**1**	**19.08**	**0**	**20**	**95**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**17.7894**	**0**	**20**	**89**	**70**	**130**
Styrene	**1**	**18.5775**	**0**	**20**	**93**	**70**	**130**
m&p-Xylenes	**1**	**38.1972**	**0**	**40**	**95**	**70**	**130**
o-Xylene	**1**	**18.6728**	**0**	**20**	**93**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	16.8408	0	20	84	50	150
1,3-Dichlorobenzene	**1**	**19.1155**	**0**	**20**	**96**	**70**	**130**
1,4-Dichlorobenzene	**1**	**19.1375**	**0**	**20**	**96**	**70**	**130**
1,2-Dichlorobenzene	**1**	**18.827**	**0**	**20**	**94**	**70**	**130**
Isopropylbenzene	**1**	**19.3027**	**0**	**20**	**97**	**70**	**130**
Cyclohexanone	1	77.739	0	100	78	50	150
Camphene	1	19.9497	0	20	100	70	130
1,2,3-Trichloropropane	1	17.6395	0	20	88	70	130
2-Chlorotoluene	1	19.5331	0	20	98	70	130
p-Ethyltoluene	1	19.1898	0	20	96	70	130
4-Chlorotoluene	1	19.9544	0	20	100	70	130
n-Propylbenzene	1	19.4065	0	20	97	70	130
Bromobenzene	1	18.7163	0	20	94	70	130
1,3,5-Trimethylbenzene	1	20.6587	0	20	103	70	130
Butyl methacrylate	1	16.4391	0	20	82	70	130
t-Butylbenzene	1	19.5925	0	20	98	70	130
1,2,4-Trimethylbenzene	1	19.8883	0	20	99	70	130
sec-Butylbenzene	1	19.9078	0	20	100	70	130
4-Isopropyltoluene	1	19.943	0	20	100	70	130
n-Butylbenzene	1	20.1726	0	20	101	70	130
p-Diethylbenzene	1	19.9592	0	20	100	70	130
1,2,4,5-Tetramethylbenzene	1	20.4988	0	20	102	70	130
1,2-Dibromo-3-Chloropropane	**1**	**16.4559**	**0**	**20**	**82**	**50**	**150**
Camphor	1	200.9287	0	200	100	20	150
Hexachlorobutadiene	1	15.8777	0	20	79	50	150
1,2,4-Trichlorobenzene	**1**	**18.1277**	**0**	**20**	**91**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**18.3861**	**0**	**20**	**92**	**70**	**130**
Naphthalene	1	19.9452	0	20	100	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M175771.D
Matrix: Aqueous

Blank Analysis Date: 11/04/22 13:02
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD34316-007	2M175774.D	11/04/22 14:02
MBS105156	2M175779.D	11/04/22 15:40

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 1M166674.D
Matrix: Aqueous

Blank Analysis Date: 11/04/22 14:11
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD34316-001	1M166681.D	11/04/22 16:44
AD34316-002	1M166682.D	11/04/22 17:06
AD34316-003(5X)	1M166698.D	11/04/22 22:56
AD34316-004	1M166692.D	11/04/22 20:45
AD34316-005	1M166697.D	11/04/22 22:34
AD34316-006	1M166691.D	11/04/22 20:23
AD34187-001(50X)	1M166688.D	11/04/22 19:17
AD34187-001(50X)	1M166687.D	11/04/22 18:55
AD34187-001(50X)	1M166680.D	11/04/22 16:22
MBS105154	1M166678.D	11/04/22 15:39

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M175242.D
Analysis Date: 10/25/22 13:02
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.354 to 7.366 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.7	6878	PASS
75	95	30	60	48.3	19854	PASS
95	95	100	100	100.0	41131	PASS
96	95	5	9	7.0	2879	PASS
173	174	0.00	2	0.9	330	PASS
174	95	50	100	91.8	37760	PASS
175	174	5	9	7.7	2912	PASS
176	174	95	101	95.2	35963	PASS
177	176	5	9	6.7	2427	PASS

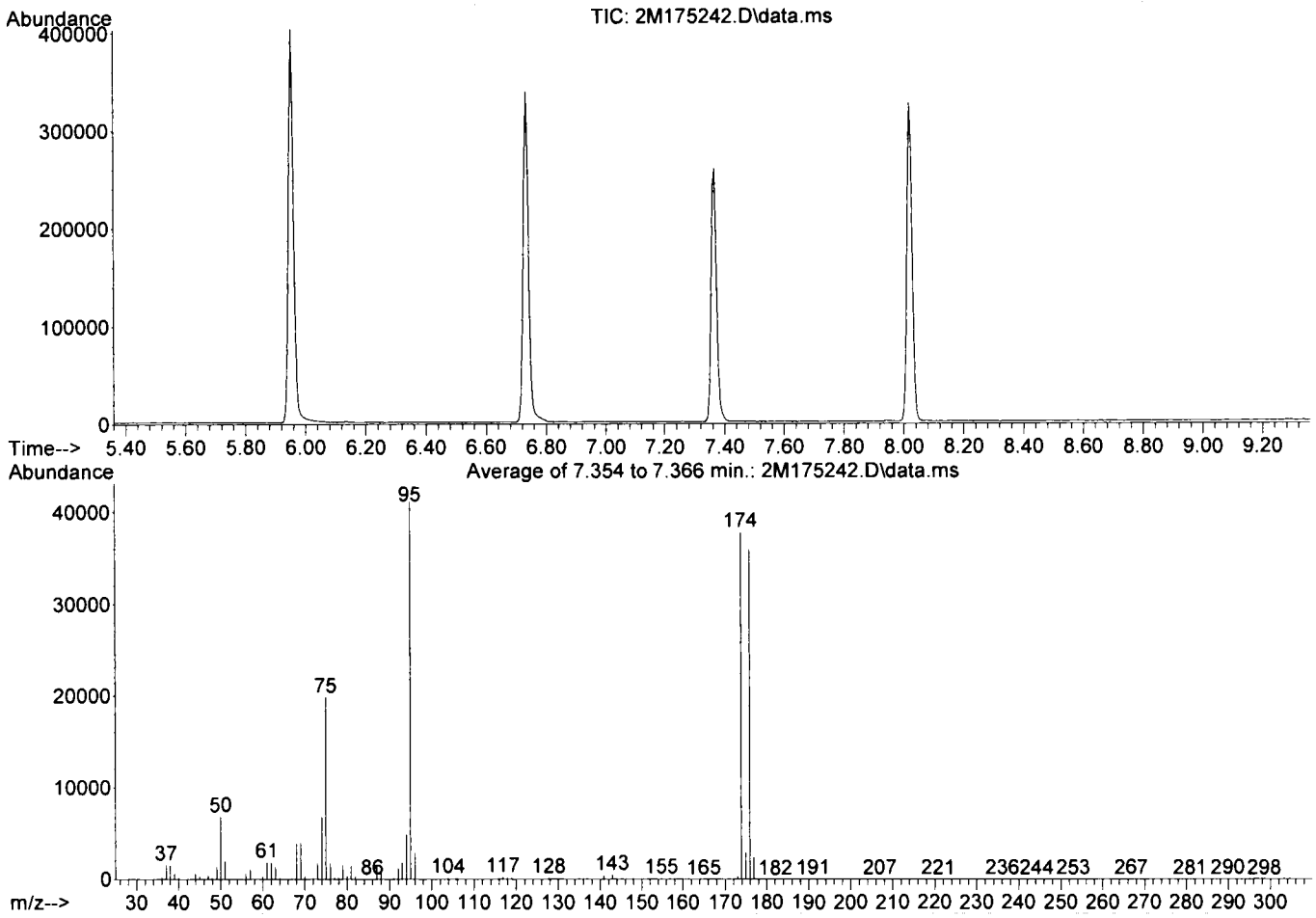
Data File	Sample Number	Analysis Date:
2M175245.D	CAL @ 0.5 PPB	10/25/22 14:01
2M175246.D	CAL @ 1 PPB	10/25/22 14:20
2M175249.D	CAL @ 5 PPB	10/25/22 15:20
2M175251.D	CAL @ 10 PPB	10/25/22 15:59
2M175253.D	CAL @ 20 PPB	10/25/22 16:39
2M175255.D	CAL @ 50 PPB	10/25/22 17:18
2M175258.D	CAL @ 100 PPB	10/25/22 18:18
2M175262.D	CAL @ 250 PPB	10/25/22 19:37
2M175266.D	CAL @ 500 PPB	10/25/22 22:00
2M175270.D	BLK	10/25/22 23:20
2M175272.D	STD	10/25/22 23:59
2M175274.D	ICV	10/26/22 00:39

2110304 0068

Data Path : G:\GcMsData\2022\GCMS_2\Data\10-25-22\
Data File : 2M175242.D
Acq On : 25 Oct 2022 13:02
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_2\MethodQt\2M_A1025.M
Title : @GCMS_2,ug,624,8260
Last Update : Tue Oct 25 22:21:46 2022



Spectrum Information: Average of 7.354 to 7.366 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	6878	PASS
75	95	30	60	48.3	19854	PASS
95	95	100	100	100.0	41131	PASS
96	95	5	9	7.0	2879	PASS
173	174	0.00	2	0.9	330	PASS
174	95	50	100	91.8	37760	PASS
175	174	5	9	7.7	2912	PASS
176	174	95	101	95.2	35963	PASS
177	176	5	9	6.7	2427	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 1M166402.D
Instrument: GCMS 1 **Analysis Date:** 10/29/22 01:15
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.503 to 7.510 min

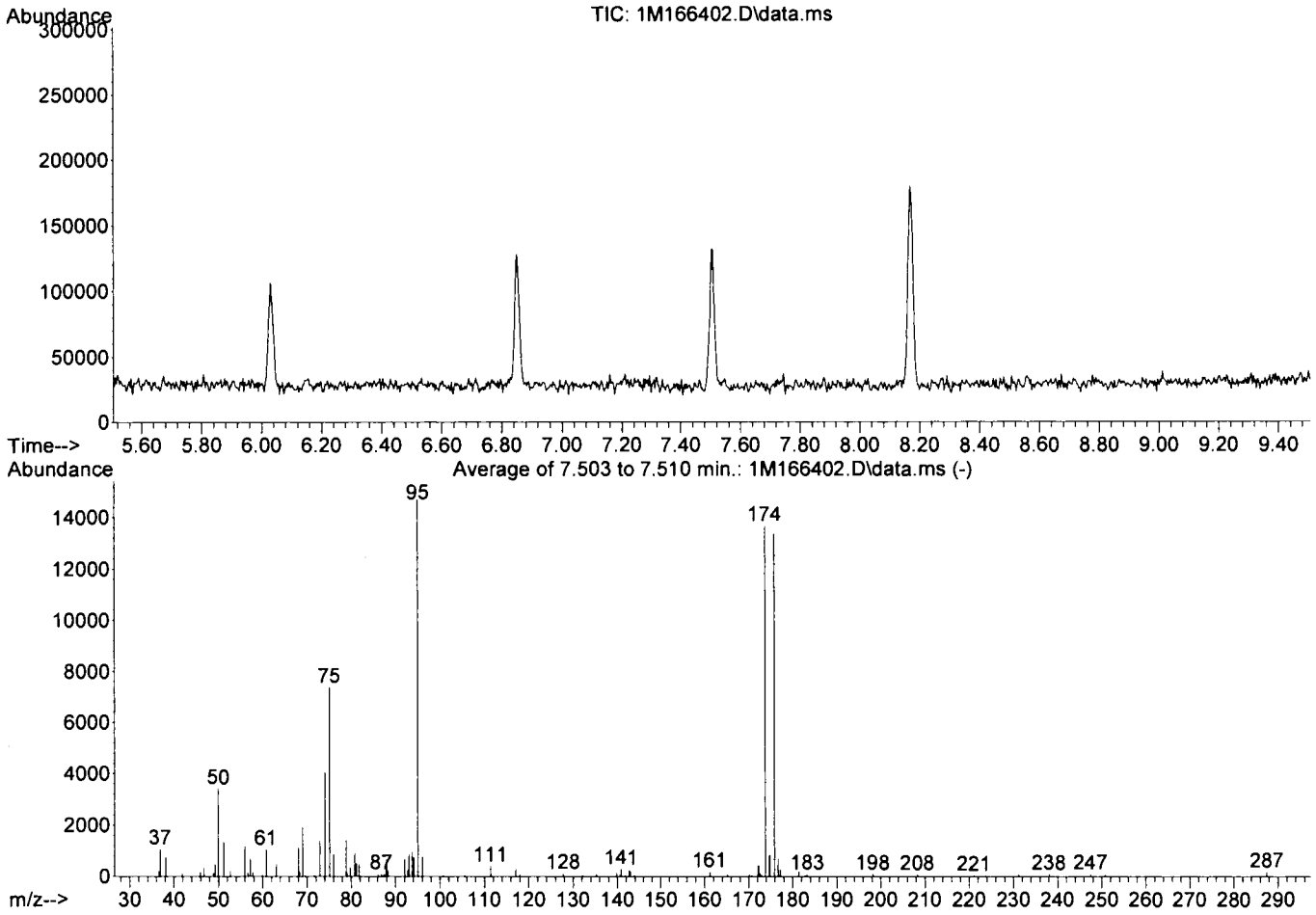
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	23.2	3406	PASS
75	95	30	60	50.2	7374	PASS
95	95	100	100	100.0	14696	PASS
96	95	5	9	5.3	780	PASS
173	174	0.00	2	0.5	72	PASS
174	95	50	100	93.0	13662	PASS
175	174	5	9	6.1	838	PASS
176	174	95	101	97.9	13374	PASS
177	176	5	9	5.3	706	PASS

Data File	Sample Number	Analysis Date:
1M166403.D	BLK	10/29/22 01:31
1M166407.D	BLK	10/29/22 02:44
1M166408.D	CAL @ 0.5 PPB	10/29/22 03:06
1M166409.D	CAL @1 PPB	10/29/22 03:28
1M166410.D	1 PPB	10/29/22 03:50
1M166411.D	CAL @ 5 PPB	10/29/22 04:12
1M166412.D	CAL @10 PPB	10/29/22 04:33
1M166414.D	CAL @ 20 PPB	10/29/22 05:17
1M166416.D	CAL @ 50 PPB	10/29/22 06:01
1M166419.D	CAL @ 100 PPB	10/29/22 07:06
1M166422.D	CAL @ 250 PPB	10/29/22 08:12
1M166426.D	CAL @ 500 PPB	10/29/22 09:39
1M166432.D	ICV	10/29/22 11:50
1M166436.D	BLK	10/29/22 13:18

Data Path : G:\GcMsData\2022\GCMS_1\Data\10-29-22\
Data File : 1M166402.D
Acq On : 29 Oct 2022 01:15
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 23 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_1\MethodQt\1M_A1029.M
Title : @GCMS_1,ug,624,8260
Last Update : Mon Oct 31 18:40:42 2022



Spectrum Information: Average of 7.503 to 7.510 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	3406	PASS
75	95	30	60	50.2	7374	PASS
95	95	100	100	100.0	14696	PASS
96	95	5	9	5.3	780	PASS
173	174	0.00	2	0.5	72	PASS
174	95	50	100	93.0	13662	PASS
175	174	5	9	6.1	838	PASS
176	174	95	101	97.9	13374	PASS
177	176	5	9	5.3	706	PASS

PT

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M175766.D
Analysis Date: 11/04/22 11:24
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.336 to 7.391 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.2	2025	PASS
75	95	30	60	49.9	5893	PASS
95	95	100	100	100.0	11803	PASS
96	95	5	9	6.9	819	PASS
173	174	0.00	2	1.0	93	PASS
174	95	50	100	80.0	9439	PASS
175	174	5	9	7.4	695	PASS
176	174	95	101	98.3	9277	PASS
177	176	5	9	7.0	648	PASS

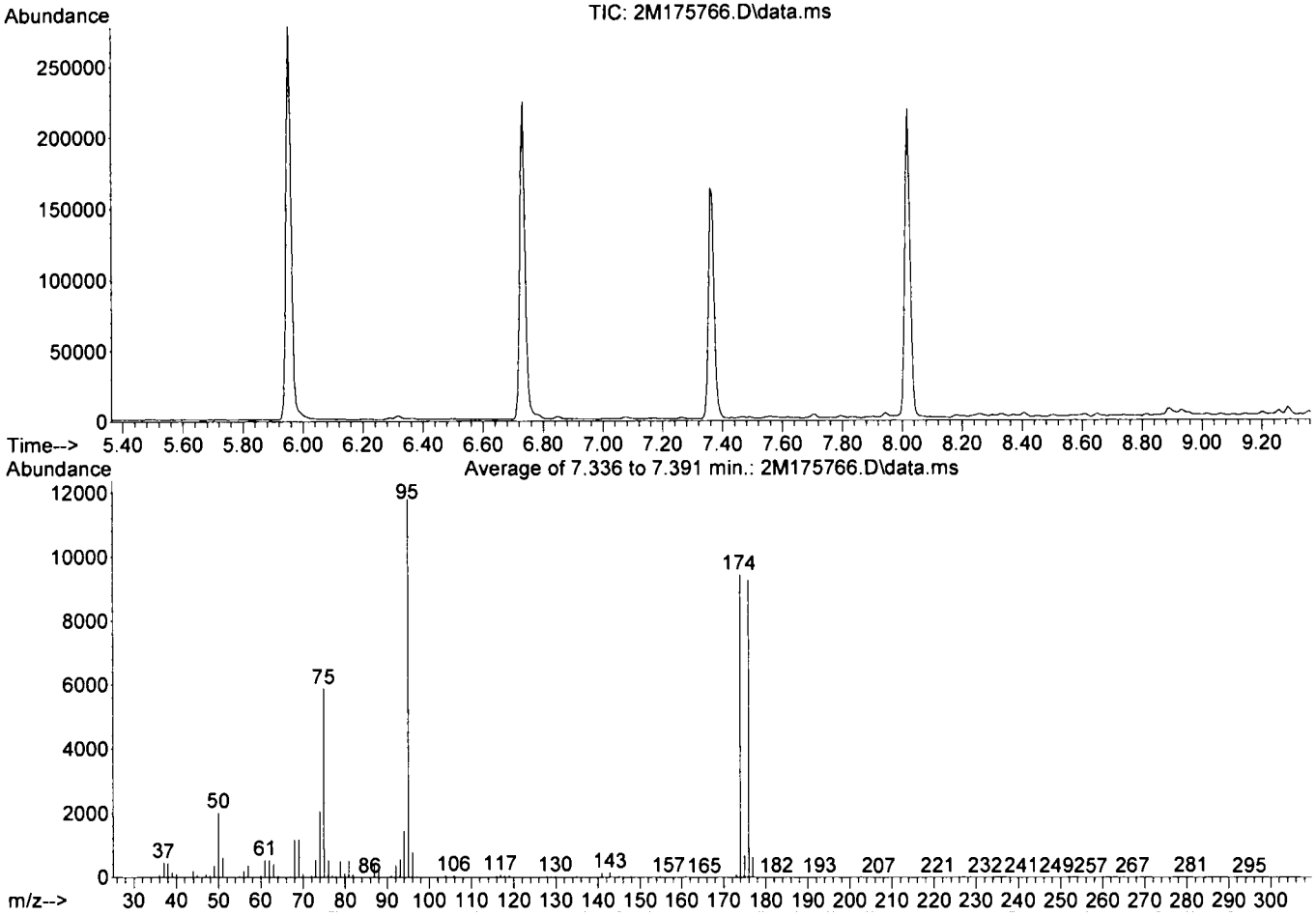
Data File	Sample Number	Analysis Date:
2M175767.D	CAL @ 20 PPB	11/04/22 11:44
2M175769.D	BLK	11/04/22 12:23
2M175770.D	DAILY BLANK	11/04/22 12:43
2M175771.D	DAILY BLANK	11/04/22 13:02
2M175772.D	AD34314-005	11/04/22 13:22
2M175773.D	AD34314-009	11/04/22 13:42
2M175774.D	AD34316-007	11/04/22 14:02
2M175775.D	AD34331-006	11/04/22 14:22
2M175776.D	AD34331-002(80uL	11/04/22 14:41
2M175777.D	AD34331-004	11/04/22 15:01
2M175778.D	MBS105152	11/04/22 15:21
2M175779.D	MBS105156	11/04/22 15:40
2M175780.D	BLK	11/04/22 16:00
2M175781.D	AD34311-005	11/04/22 16:20
2M175782.D	AD34311-006	11/04/22 16:40
2M175783.D	AD34311-007	11/04/22 16:59
2M175784.D	AD34214-009(50X)	11/04/22 17:19
2M175785.D	AD34311-003	11/04/22 17:39
2M175786.D	BLK	11/04/22 17:59
2M175787.D	AD34311-004	11/04/22 18:19
2M175788.D	AD34331-004(MS)	11/04/22 18:38
2M175789.D	AD34331-004(MSD	11/04/22 18:58
2M175790.D	AD34214-009(50X)	11/04/22 19:18
2M175791.D	AD34214-009(50X)	11/04/22 19:38
2M175792.D	AD34333-002	11/04/22 19:58
2M175793.D	AD34333-003	11/04/22 20:18
2M175794.D	AD34333-004(400u	11/04/22 20:37
2M175795.D	BLK	11/04/22 20:57
2M175796.D	AD34332-002(40uL	11/04/22 21:17
2M175797.D	AD34332-001(80uL	11/04/22 21:37
2M175798.D	BLK	11/04/22 21:57
2M175799.D	AD34214-009(50X)	11/04/22 22:16
2M175800.D	AD34365-004	11/04/22 22:36
2M175801.D	AD34365-001	11/04/22 22:56
2M175802.D	AD34365-005	11/04/22 23:16
2M175803.D	34365-002	11/04/22 23:35
2M175804.D	34365-003	11/04/22 23:55
2M175805.D	34372-001	11/05/22 00:15
2M175806.D	34372-003	11/05/22 00:35
2M175807.D	BLK	11/05/22 00:55
2M175808.D	BLK	11/05/22 01:14
2M175809.D	BLK	11/05/22 01:34
2M175810.D	BLK	11/05/22 01:54
2M175811.D	AD34346-001	11/05/22 02:14

CLPBFB

Data Path : G:\GcMsData\2022\GCMS_2\Data\11-04-22\
Data File : 2M175766.D
Acq On : 04 Nov 2022 11:24
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_2\MethodQt\2M_A1025.M
Title : @GCMS_2,ug,624,8260
Last Update : Tue Oct 25 22:21:46 2022



Spectrum Information: Average of 7.336 to 7.391 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	2025	PASS
75	95	30	60	49.9	5893	PASS
95	95	100	100	100.0	11803	PASS
96	95	5	9	6.9	819	PASS
173	174	0.00	2	1.0	93	PASS
174	95	50	100	80.0	9439	PASS
175	174	5	9	7.4	695	PASS
176	174	95	101	98.3	9277	PASS
177	176	5	9	7.0	648	PASS

Form 5

Tune Name: BFB TUNE **Data File:** 1M166666.D
Instrument: GCMS 1 **Analysis Date:** 11/04/22 11:24
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.510 to 7.510 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	21.5	9990	PASS
75	95	30	60	56.9	26414	PASS
95	95	100	100	100.0	46388	PASS
96	95	5	9	5.3	2454	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	99.8	46276	PASS
175	174	5	9	7.9	3657	PASS
176	174	95	101	96.3	44572	PASS
177	176	5	9	7.5	3358	PASS

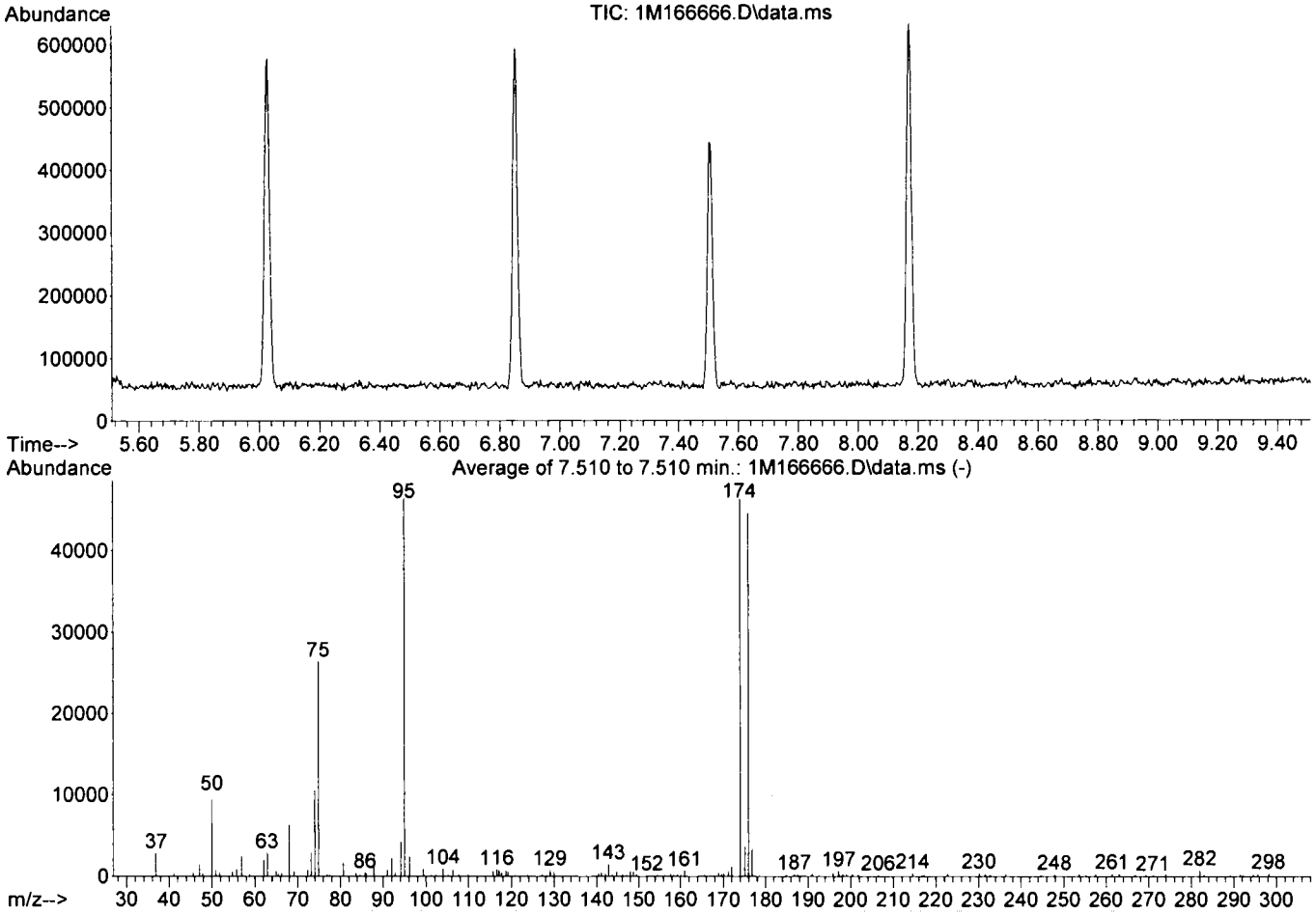
Data File	Sample Number	Analysis Date:
1M166669.D	CAL @ 20 PPB	11/04/22 12:22
1M166672.D	BLK-di	11/04/22 13:27
1M166673.D	DAILY BLANK	11/04/22 13:49
1M166674.D	DAILY BLANK	11/04/22 14:11
1M166675.D	AD34272-002(T)	11/04/22 14:33
1M166676.D	AD34287-015	11/04/22 14:55
1M166677.D	AD34287-016	11/04/22 15:17
1M166678.D	MBS105154	11/04/22 15:39
1M166679.D	MBS105155	11/04/22 16:01
1M166680.D	AD34187-001(50X)	11/04/22 16:22
1M166681.D	AD34316-001	11/04/22 16:44
1M166682.D	AD34316-002	11/04/22 17:06
1M166683.D	AD34316-003	11/04/22 17:28
1M166684.D	AD34316-004	11/04/22 17:50
1M166685.D	AD34316-005	11/04/22 18:12
1M166686.D	AD34316-006	11/04/22 18:33
1M166687.D	AD34187-001(50X)	11/04/22 18:55
1M166688.D	AD34187-001(50X)	11/04/22 19:17
1M166689.D	BLK	11/04/22 19:39
1M166690.D	AD34238-010	11/04/22 20:01
1M166691.D	AD34316-006	11/04/22 20:23
1M166692.D	AD34316-004	11/04/22 20:45
1M166693.D	AD34351-001	11/04/22 21:07
1M166694.D	AD34338-002	11/04/22 21:28
1M166695.D	34373-002	11/04/22 21:50
1M166696.D	AD34351-001	11/04/22 22:12
1M166697.D	AD34316-005	11/04/22 22:34
1M166698.D	AD34316-003(5X)	11/04/22 22:56
1M166699.D	34373-004	11/04/22 23:18
1M166700.D	34316-003(5X)	11/04/22 23:40
1M166701.D	34359-001	11/05/22 00:01
1M166702.D	34356-001	11/05/22 00:23
1M166703.D	34356-002	11/05/22 00:45
1M166704.D	34356-003	11/05/22 01:07
1M166705.D	34356-004	11/05/22 01:29
1M166706.D	34356-005	11/05/22 01:50
1M166707.D	34356-006	11/05/22 02:12
1M166708.D	34356-007	11/05/22 02:34
1M166709.D	34356-008	11/05/22 02:56
1M166710.D	34356-009	11/05/22 03:18
1M166711.D	34356-010	11/05/22 03:40
1M166712.D	34358-001	11/05/22 04:02
1M166713.D	34358-003	11/05/22 04:23
1M166714.D	34373-006	11/05/22 04:45

2110304 0074

Data Path : G:\GcMsData\2022\GCMS_1\Data\11-04-22\
Data File : 1M166666.D
Acq On : 04 Nov 2022 11:24
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_1\MethodQt\1M_A1029.M
Title : @GCMS_1,ug,624,8260
Last Update : Mon Oct 31 18:40:42 2022



Spectrum Information: Average of 7.510 to 7.510 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	9990	PASS
75	95	30	60	56.9	26414	PASS
95	95	100	100	100.0	46388	PASS
96	95	5	9	5.3	2454	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	99.8	46276	PASS
175	174	5	9	7.9	3657	PASS
176	174	95	101	96.3	44572	PASS
177	176	5	9	7.5	3358	PASS

2110304 0075

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M175253.D	CAL @ 20 PPB	10/25/22 16:39	2	2M175249.D	CAL @ 5 PPB	10/25/22 15:20
3	2M175251.D	CAL @ 10 PPB	10/25/22 15:59	4	2M175255.D	CAL @ 50 PPB	10/25/22 17:18
5	2M175258.D	CAL @ 100 PPB	10/25/22 18:18	6	2M175262.D	CAL @ 250 PPB	10/25/22 19:37
7	2M175266.D	CAL @ 500 PPB	10/25/22 22:00	8	2M175246.D	CAL @ 1 PPB	10/25/22 14:20
9	2M175245.D	CAL @ 0.5 PPB	10/25/22 14:01				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2385	0.2404	0.2560	0.2705	0.2789	0.2816	0.2936	0.2356	-----	0.262	1.70	1.00	1.00	8.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.2624	0.2559	0.2707	0.2921	0.3050	0.3049	0.3152	0.2636	-----	0.284	1.68	1.00	1.00	8.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1738	0.1688	0.1840	0.1917	0.1940	0.1933	0.2111	0.2021	-----	0.190	1.86	0.998	1.00	7.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Qua	0.0776	0.0728	0.0785	0.0971	0.1279	0.1856	-----	0.0950	-----	0.105	2.25	0.982	1.00	38	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.2229	0.2261	0.2384	0.2465	0.2531	0.2572	0.2681	0.2409	-----	0.244	1.95	1.00	1.00	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1434	0.1479	0.1565	0.1571	0.1607	0.1661	0.1799	0.1571	-----	0.159	2.34	0.999	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.3813	0.3999	0.4203	0.4342	0.4495	0.4575	0.4743	0.4231	-----	0.430	2.56	1.00	1.00	7.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1726	0.1705	0.1773	0.1800	0.1844	0.1857	0.2008	0.1878	-----	0.182	2.79	0.999	1.00	5.3	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.2793	0.2734	0.2987	0.3000	0.3033	0.3009	0.3097	0.3419	-----	0.301	2.84	1.00	1.00	6.9	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1736	0.1870	0.1998	0.1988	0.2068	0.2053	0.2111	0.1975	-----	0.198	3.00	1.00	1.00	6.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2201	0.2292	0.2335	0.2364	0.2373	0.2347	0.2380	0.2452	-----	0.234	3.41	1.00	1.00	3.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0446	0.0450	0.0460	0.0471	0.0493	0.0493	0.0485	0.0472	-----	0.0472	2.92	1.00	1.00	3.9		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0929	0.0875	0.0934	0.0963	0.1013	0.1005	0.1000	0.0852	-----	0.0947	3.62	1.00	1.00	6.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.2351	0.1946	0.2267	0.2983	0.3118	0.3254	0.3195	0.1805	-----	0.262	3.15	0.998	0.998	23		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0675	0.0686	0.0666	0.0725	0.0725	0.0713	0.0702	0.0883	-----	0.0722	3.04	1.00	1.00	9.5	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.5301	0.5362	0.5561	0.5924	0.6009	0.6081	0.6237	0.5925	-----	0.580	3.21	1.00	1.00	6.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0276	0.0270	0.0282	0.0293	0.0313	0.0311	0.0309	0.0298	-----	0.0294	3.48	1.00	1.00	5.6		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1611	0.1760	0.1804	0.1839	0.1895	0.1839	0.1840	0.1830	-----	0.180	3.87	1.00	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.5327	0.5413	0.5635	0.5700	0.5733	0.5640	0.5633	0.5396	-----	0.556	4.03	1.00	1.00	2.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.2719	0.2808	0.3058	0.3054	0.3122	0.3059	0.3136	0.3016	-----	0.300	3.00	1.00	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.2026	0.2077	0.2090	0.2150	0.2267	0.2220	0.2223	0.2508	-----	0.220	3.31	1.00	1.00	6.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.5947	0.6008	0.6182	0.6357	0.6424	0.6379	0.6408	0.6054	0.6079	0.620	3.64	1.00	1.00	3.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3510	0.3607	0.3719	0.3778	0.3781	0.3744	0.3809	0.3635	-----	0.370	4.00	1.00	1.00	2.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2298	0.2282	0.2441	0.2498	0.2513	0.2489	0.2557	0.2505	-----	0.245	3.65	1.00	1.00	4.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.5530	0.5526	0.5846	0.5898	0.5966	0.5919	0.5948	0.5587	-----	0.578	4.29	1.00	1.00	3.4	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3425	0.3503	0.3706	0.3685	0.3676	0.3613	0.3661	0.3754	-----	0.363	4.41	1.00	1.00	3.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1535	0.1576	0.1670	0.1638	0.1628	0.1563	0.1522	0.1651	-----	0.160	4.56	1.00	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3049	0.3256	0.3342	0.3392	0.3318	0.3197	0.3131	0.3419	-----	0.326	4.41	1.00	1.00	4.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2318	0.2222	0.2123	0.2395	0.2449	0.2372	0.2352	0.2814	-----	0.238	4.43	1.00	1.00	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0040	0.0041	0.0041	0.0042	0.0043	0.0042	0.0043	0.0041	-----	0.00420	5.49	1.00	1.00	3.1		1000.	250.0	500.0	2500.	5000.	12500	25000	50.00	
1,1-Dichloropropene	1	0	Avg	0.2706	0.2924	0.3011	0.3006	0.3027	0.2978	0.3018	0.2895	-----	0.295	4.82	1.00	1.00	3.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.3900	0.3969	0.4204	0.4185	0.4177	0.4146	0.4199	0.4067	-----	0.411	4.60	1.00	1.00	2.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2758	0.2800	0.2777	0.2751	0.2843	0.2849	0.2814	0.2726	0.2772	0.279	4.70	-1	-1	1.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2286	0.2438	0.2603	0.2592	0.2647	0.2630	0.2648	0.2582	-----	0.255	4.77	1.00	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1306	0.1293	0.1300	0.1286	0.1322	0.1294	0.1313	0.1288	0.1309	0.130	4.90	-1	-1	0.93		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2787	0.2951	0.2946	0.2947	0.2942	0.2939	0.3117	0.2930	0.3200	0.297	4.95	0.999	1.00	4.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.0922	0.0834	0.0913	0.1046	0.1096	0.1098	0.1076	0.0928	-----	0.0990	4.41	1.00	1.00	10	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3574	0.3636	0.3870	0.3976	0.4001	0.3977	0.4035	0.3726	-----	0.385	4.73	1.00	1.00	4.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3198	0.3305	0.3508	0.3609	0.3705	0.3658	0.3782	0.3270	-----	0.350	4.83	1.00	1.00	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.5238	0.5401	0.5479	0.5454	0.5790	0.5729	0.5710	0.5395	-----	0.552	4.02	1.00	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.2950	0.2994	0.3095	0.3247	0.3261	0.3248	0.3301	0.3136	-----	0.315	5.57	1.00	1.00	4.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.304

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2110304 0076

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M175253.D	CAL @ 20 PPB	10/25/22 16:39	2	2M175249.D	CAL @ 5 PPB	10/25/22 15:20
3	2M175251.D	CAL @ 10 PPB	10/25/22 15:59	4	2M175255.D	CAL @ 50 PPB	10/25/22 17:18
5	2M175258.D	CAL @ 100 PPB	10/25/22 18:18	6	2M175262.D	CAL @ 250 PPB	10/25/22 19:37
7	2M175266.D	CAL @ 500 PPB	10/25/22 22:00	8	2M175246.D	CAL @ 1 PPB	10/25/22 14:20
9	2M175245.D	CAL @ 0.5 PPB	10/25/22 14:01				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2305	0.2448	0.2486	0.2619	0.2727	0.2648	0.2726	0.2576	-----	0.257	5.42	1.00	1.00	5.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1848	0.1912	0.1976	0.2028	0.2049	0.2036	0.2067	0.1972	-----	0.199	5.50	1.00	1.00	3.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.1921	0.2029	0.2106	0.2106	0.2122	0.2053	0.2118	0.2003	-----	0.206	5.43	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2739	0.2753	0.3008	0.3022	0.2977	0.2971	0.3037	0.2895	-----	0.293	5.30	1.00	1.00	4.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.8356	0.8383	0.9090	0.8939	0.8914	0.8775	0.9025	0.9011	0.8768	0.881	4.95	1.00	1.00	3.1	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.5799	0.6066	0.6080	0.6179	0.6198	0.6112	0.6153	0.6334	-----	0.612	4.99	1.00	1.00	2.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.5341	0.5234	0.5490	0.5537	0.5621	0.5446	0.5393	0.5368	-----	0.543	4.95	1.00	1.00	2.2	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.2148	0.2280	0.2263	0.2276	0.2731	0.2539	0.2498	0.2351	-----	0.239	5.45	0.999	1.00	7.9	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3343	0.3279	0.3445	0.3717	0.3785	0.3759	0.3796	0.3294	-----	0.355	6.42	1.00	1.00	6.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.1533	0.1523	0.1560	0.1574	0.1575	0.1436	0.1309	0.1518	-----	0.150	5.70	0.997	1.00	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4345	0.4198	0.4637	0.4816	0.4806	0.4702	0.4632	0.4400	-----	0.457	5.80	1.00	1.00	5.0	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3989	0.3907	0.4199	0.4399	0.4447	0.4361	0.4318	0.3914	-----	0.419	6.09	1.00	1.00	5.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.2337	0.2291	0.2452	0.2533	0.2542	0.2448	0.2436	0.2363	-----	0.243	6.10	1.00	1.00	3.7	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2667	0.2667	0.2840	0.2884	0.2887	0.2811	0.2802	0.2688	-----	0.278	6.20	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3051	0.3004	0.3201	0.3262	0.3293	0.3242	0.3244	0.2955	-----	0.316	6.49	1.00	1.00	4.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4321	0.4302	0.4598	0.4637	0.4562	0.4387	0.4399	0.4484	-----	0.446	6.29	1.00	1.00	2.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.2669	0.2683	0.2714	0.2878	0.2966	0.2877	0.2817	0.2887	-----	0.281	5.87	1.00	1.00	3.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.1997	0.2027	0.1942	0.2113	0.2148	0.2066	0.2014	0.1976	-----	0.204	6.31	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2575	0.2670	0.2829	0.2859	0.2884	0.2816	0.2906	0.2738	-----	0.278	6.29	1.00	1.00	4.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2552	1.2332	1.2382	1.2502	1.2481	1.2274	1.2234	1.2320	1.2271	1.24	5.95	-1	-1	0.92		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6967	0.7118	0.7585	0.7625	0.7559	0.7300	0.7300	0.7497	-----	0.737	5.99	1.00	1.00	3.2	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2980	0.2938	0.3121	0.3215	0.3232	0.3223	0.3385	0.2827	-----	0.312	6.78	0.999	1.00	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.8025	0.8130	0.8742	0.8783	0.8686	0.8493	0.8545	0.8585	-----	0.850	6.75	1.00	1.00	3.3	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.0560	1.0089	1.1022	1.1848	1.1713	1.1821	1.1551	1.0754	-----	1.12	6.99	1.00	1.00	5.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.9162	0.8998	0.9358	1.0162	1.0094	1.0104	0.9977	0.9169	-----	0.963	7.11	1.00	1.00	5.2	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.5215	0.4844	0.5289	0.5907	0.5945	0.6149	0.6040	0.5100	-----	0.556	7.20	1.00	1.00	9.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6895	0.7053	0.7251	0.7661	0.7356	0.7598	0.7574	0.7441	-----	0.735	6.79	1.00	1.00	3.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7792	0.7706	0.8218	0.8400	0.8246	0.8203	0.8031	0.8514	-----	0.814	7.42	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8786	0.8623	0.8665	0.8817	0.8782	0.8774	0.8580	0.8640	0.8741	0.871	7.37	-1	-1	0.98		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.7428	1.7583	1.8835	1.9181	1.8554	1.8576	1.9174	1.8520	-----	1.85	7.07	1.00	1.00	3.6	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	1.0307	1.0287	1.1276	1.1227	1.0923	1.0799	1.0900	1.1045	0.9789	1.07	6.85	1.00	1.00	4.6	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.0212	1.0178	1.1171	1.1098	1.0748	1.0737	1.1095	1.0618	-----	1.07	7.07	1.00	1.00	3.6	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2602	0.2522	0.2824	0.2852	0.2892	0.2916	0.2940	0.2843	-----	0.280	7.45	1.00	1.00	5.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.1042	1.1045	1.1975	1.2111	1.1955	1.2077	1.1971	1.2076	-----	1.18	7.99	1.00	1.00	3.9	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.1221	1.1533	1.2406	1.2350	1.2183	1.2278	1.2257	1.2773	-----	1.21	8.04	1.00	1.00	4.1	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.0545	1.0815	1.1327	1.1567	1.1477	1.1586	1.1584	1.1916	-----	1.14	8.26	1.00	1.00	4.0	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.2823	2.3025	2.5010	2.5292	2.4908	2.4664	2.3721	2.5518	-----	2.44	7.26	1.00	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0308	0.0378	0.0354	0.0355	0.0328	0.0308	0.0311	0.0528	-----	0.0359	7.34	1.00	1.00	20		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5427	0.5623	0.5809	0.6111	0.6072	0.6109	0.6113	0.6182	-----	0.593	7.43	1.00	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.9465	0.9311	0.9988	1.0362	1.0301	1.0327	1.0285	0.9524	-----	0.995	7.46	1.00	1.00	4.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.3046	1.3305	1.4800	1.4649	1.4212	1.3983	1.4202	1.4869	-----	1.41	7.56	1.00	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.304

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2110304 0077

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M175253.D	CAL @ 20 PPB	10/25/22 16:39	2	2M175249.D	CAL @ 5 PPB	10/25/22 15:20
3	2M175251.D	CAL @ 10 PPB	10/25/22 15:59	4	2M175255.D	CAL @ 50 PPB	10/25/22 17:18
5	2M175258.D	CAL @ 100 PPB	10/25/22 18:18	6	2M175262.D	CAL @ 250 PPB	10/25/22 19:37
7	2M175266.D	CAL @ 500 PPB	10/25/22 22:00	8	2M175246.D	CAL @ 1 PPB	10/25/22 14:20
9	2M175245.D	CAL @ 0.5 PPB	10/25/22 14:01				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.0452	2.0819	2.2183	2.2681	2.4706	2.4477	2.3789	2.1761	-----	2.26	7.55	1.00	1.00	7.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.2819	1.3037	1.3821	1.4207	1.3842	1.3611	1.4277	1.3386	-----	1.36	7.62	1.00	1.00	3.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.4245	2.4217	2.6258	2.6790	2.6269	2.6013	2.4981	2.6118	-----	2.56	7.49	1.00	1.00	3.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3737	1.3857	1.4927	1.4925	1.4605	1.4627	1.4598	1.5410	-----	1.46	7.46	1.00	1.00	3.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.7127	1.7455	1.8875	1.8829	1.5871	1.6019	1.7587	1.6103	-----	1.72	7.58	0.998	1.00	6.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.5687	0.5705	0.6034	0.6330	0.6159	0.6286	0.6753	0.5818	-----	0.610	7.59	0.999	1.00	6.0	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.6687	1.6942	1.8020	1.8519	1.8303	1.8340	1.8185	1.8381	-----	1.79	7.78	1.00	1.00	3.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.7405	1.7622	1.8879	1.9153	1.8752	1.8716	1.8667	1.8237	-----	1.84	7.80	1.00	1.00	3.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.8930	1.9161	2.0864	2.1329	2.1119	2.1202	2.0857	2.0768	-----	2.05	7.90	1.00	1.00	4.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.6657	1.7039	1.8294	1.8774	1.8498	1.8523	1.8565	1.7789	-----	1.80	7.97	1.00	1.00	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.5687	1.5898	1.7092	1.7657	1.7358	1.7560	1.7789	1.6990	-----	1.70	8.20	1.00	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.9233	0.9188	1.0070	1.0270	1.0253	1.0392	1.0538	1.0141	-----	1.00	8.19	1.00	1.00	5.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.3166	1.2645	1.3977	1.4610	1.4412	1.4842	1.4855	1.4079	-----	1.41	8.65	1.00	1.00	5.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.2123	0.2084	0.2272	0.2478	0.2546	0.2621	0.2577	0.2188	-----	0.236	8.71	1.00	1.00	9.2	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0891	0.0885	0.0895	0.0976	0.1014	0.1011	0.0999	0.0938	0.0785	0.0933	9.14	1.00	1.00	8.1		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.2388	0.2539	0.2465	0.2639	0.2607	0.2769	0.2773	0.2763	-----	0.262	9.28	1.00	1.00	5.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5529	0.5268	0.5803	0.6125	0.6026	0.6169	0.6045	0.6249	-----	0.590	9.20	1.00	1.00	5.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.4832	0.5016	0.5074	0.5377	0.5276	0.5448	0.5312	0.5463	-----	0.523	9.50	1.00	1.00	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.8428	1.8265	1.9271	2.0387	2.0593	2.0605	1.9630	1.9530	-----	1.96	9.36	0.999	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.304
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2110304 0078

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M166414.D	CAL @ 20 PPB	10/29/22 05:17	2	1M166411.D	CAL @ 5 PPB	10/29/22 04:12
3	1M166412.D	CAL @10 PPB	10/29/22 04:33	4	1M166416.D	CAL @ 50 PPB	10/29/22 06:01
5	1M166419.D	CAL @ 100 PPB	10/29/22 07:06	6	1M166422.D	CAL @ 250 PPB	10/29/22 08:12
7	1M166426.D	CAL @ 500 PPB	10/29/22 09:39	8	1M166409.D	CAL @1 PPB	10/29/22 03:28
9	1M166408.D	CAL @ 0.5 PPB	10/29/22 03:06				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2033	0.2346	0.2164	0.2409	0.2270	0.1998	0.2169	0.2423	-----	0.223	1.68	0.998	0.999	7.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.1948	0.1950	0.2211	0.2181	0.2108	0.1982	0.2090	0.2545	-----	0.213	1.67	0.999	1.00	9.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1951	0.2282	0.2107	0.2140	0.2038	0.1857	0.1763	0.2956	-----	0.214	1.83	0.999	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.1718	0.2023	0.2193	0.2027	0.2189	0.2945	-----	0.1945	-----	0.215	2.21	0.988	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.2258	0.2605	0.2429	0.2437	0.2491	0.2427	0.2336	0.2611	-----	0.245	1.92	1.00	1.00	4.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1556	0.2250	0.1989	0.1988	0.1911	0.1899	0.2272	0.1454	-----	0.192	2.29	0.994	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.4166	0.4889	0.4846	0.4631	0.4674	0.4693	0.4883	0.5867	-----	0.483	2.51	1.00	1.00	9.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1854	0.2209	0.2077	0.2058	0.2090	0.2093	0.2200	0.2614	-----	0.215	2.73	0.999	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.4032	0.3944	0.4908	0.4262	0.4343	0.4179	0.4288	0.3977	-----	0.424	2.78	1.00	1.00	7.3	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.2166	0.2104	0.2360	0.2273	0.2225	0.2359	0.2589	0.3401	-----	0.244	2.94	0.998	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2597	0.2803	0.3113	0.2694	0.2631	0.2737	0.2755	0.3632	-----	0.287	3.34	1.00	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0358	0.0370	0.0433	0.0410	0.0376	0.0420	0.0421	0.0509	-----	0.0412	2.85	1.00	1.00	12		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0873	0.1160	0.1071	0.0919	0.0866	0.0941	0.0942	0.1251	-----	0.100	3.55	1.00	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.2211	0.2035	0.2607	0.2943	0.2805	0.2826	0.2764	0.2578	-----	0.260	3.09	1.00	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0665	0.0751	0.0762	0.0665	0.0692	0.0651	0.0692	0.0685	-----	0.0696	2.97	0.999	1.00	5.8	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.5784	0.6782	0.7169	0.6689	0.6776	0.7094	0.7420	0.9853	-----	0.720	3.15	0.999	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0215	0.0311	0.0249	0.0248	0.0238	0.0229	0.0234	0.0197	-----	0.0240	3.40	1.00	1.00	14		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1558	0.1795	0.1908	0.1818	0.1685	0.1858	0.1835	0.1612	-----	0.176	3.82	1.00	1.00	7.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.6558	0.6455	0.7644	0.7078	0.7017	0.7433	0.8185	0.8317	-----	0.734	3.98	0.998	1.00	9.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.3652	0.4156	0.4488	0.3941	0.4033	0.4105	0.4605	0.6138	-----	0.439	2.94	0.997	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.2041	0.2303	0.2627	0.2323	0.2223	0.2128	0.2128	0.1675	-----	0.218	3.24	1.00	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6489	0.7453	0.7317	0.7212	0.7265	0.7843	0.8818	0.7897	1.1739	0.800	3.57	0.997	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.4341	0.4765	0.5286	0.4594	0.4666	0.4802	0.5018	0.5217	-----	0.484	3.94	0.999	1.00	6.6	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2543	0.2974	0.2802	0.2807	0.2746	0.3001	0.3346	0.4195	-----	0.305	3.58	0.997	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.6347	0.6257	0.6682	0.6788	0.6921	0.7150	0.7923	0.7995	-----	0.701	4.28	0.998	1.00	9.3	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3900	0.4028	0.4556	0.4253	0.4166	0.4538	0.5114	0.6032	-----	0.457	4.40	0.997	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.2336	0.2283	0.2568	0.2415	0.2402	0.2348	0.2384	0.2105	-----	0.236	4.57	1.00	1.00	5.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.2584	0.3069	0.3029	0.2993	0.2962	0.3077	0.3426	0.3674	-----	0.310	4.41	0.997	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.1993	0.2749	0.2531	0.2572	0.2638	0.2411	0.2550	0.2753	-----	0.253	4.44	0.999	0.999	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0029	0.0034	0.0033	0.0031	0.0034	0.0034	0.0041	0.0053	-----	0.00366	5.57	0.994	1.00	20		1000.	250.0	500.0	2500.	5000.	12500	25000	50.00	
1,1-Dichloropropene	1	0	Avg	0.3138	0.3382	0.3520	0.3768	0.4023	0.4138	0.5228	0.4181	-----	0.392	4.86	0.990	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4855	0.4666	0.5175	0.5086	0.5217	0.5308	0.5885	0.5031	-----	0.515	4.62	0.998	1.00	7.0	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2937	0.2946	0.2856	0.3026	0.2955	0.3101	0.3003	0.2878	0.2962	0.296	4.73	-1	-1	2.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2603	0.3517	0.3063	0.2968	0.3211	0.3266	0.3537	0.2438	-----	0.308	4.80	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1500	0.1472	0.1422	0.1449	0.1492	0.1494	0.1407	0.1497	0.1463	0.147	4.95	-1	-1	2.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.3474	0.4166	0.4026	0.3956	0.4337	0.4779	-----	0.5697	0.3342	0.422	4.99	0.998	1.00	18	0.10	20.00	5.00	10.00	50.00	100.0	250.0		1.00	0.50
2-Butanone	1	0	Avg	0.1026	0.1046	0.0999	0.1092	0.1068	0.1148	0.1315	0.0871	-----	0.107	4.41	0.996	1.00	12	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.4308	0.4896	0.4860	0.4711	0.4882	0.4999	0.5655	0.5108	-----	0.493	4.76	0.997	1.00	7.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3236	0.3591	0.3932	0.3983	0.4240	0.4535	0.5722	0.5397	-----	0.433	4.87	0.990	1.00	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.6875	0.6259	0.7411	0.7264	0.7268	0.8128	0.8823	0.6362	-----	0.730	3.98	0.998	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3279	0.3539	0.3719	0.3651	0.3817	0.4085	0.4589	0.5752	-----	0.405	5.65	0.997	1.00	19	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.69

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

2110304 0079

Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_1

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	1M166414.D	CAL @ 20 PPB	10/29/22 05:17	2	1M166411.D	CAL @ 5 PPB	10/29/22 04:12
3	1M166412.D	CAL @10 PPB	10/29/22 04:33	4	1M166416.D	CAL @ 50 PPB	10/29/22 06:01
5	1M166419.D	CAL @ 100 PPB	10/29/22 07:06	6	1M166422.D	CAL @ 250 PPB	10/29/22 08:12
7	1M166426.D	CAL @ 500 PPB	10/29/22 09:39	8	1M166409.D	CAL @1 PPB	10/29/22 03:28
9	1M166408.D	CAL @ 0.5 PPB	10/29/22 03:06				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2407	0.3003	0.2787	0.2724	0.2869	0.3155	0.3565	0.3781	-----	0.304	5.48	0.996	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1589	0.1761	0.1653	0.1770	0.1699	0.1821	0.2072	0.2451	-----	0.185	5.57	0.996	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2364	0.2556	0.2765	0.2496	0.2580	0.2864	0.3112	0.2359	-----	0.264	5.50	0.998	1.00	9.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2326	0.2998	0.2608	0.2582	0.2702	0.2825	0.3188	0.2891	-----	0.277	5.37	0.997	1.00	9.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.9671	1.0104	1.0419	1.0755	1.1769	1.2940	1.3115	1.2861	1.5317	1.19	4.99	0.999	1.00	15	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.6586	0.6597	0.6596	0.7022	0.7422	0.7704	0.8568	0.5509	-----	0.700	5.04	0.998	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.6391	0.5896	0.7025	0.7848	0.8554	0.8363	-----	0.5117	-----	0.703	5.00	0.999	1.00	18	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Methyl methacrylate	1	0	Avg	0.2597	0.2892	0.2590	0.2570	0.2867	0.2521	0.2772	0.2221	-----	0.263	5.54	0.998	0.999	8.3	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Qua	0.2763	0.3354	0.7524	0.3238	0.3335	0.3361	0.3637	0.4660	-----	0.398	6.54	0.998	0.999	38	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.1508	0.1356	0.1708	0.1810	0.1787	0.1697	0.1703	0.1280	-----	0.161	5.80	1.00	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4506	0.4874	0.4715	0.4952	0.5140	0.5277	0.5452	0.5236	-----	0.502	5.89	1.00	1.00	6.3	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3873	0.3566	0.4623	0.4292	0.4757	0.4961	0.5199	0.5399	-----	0.458	6.20	0.999	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.2443	0.2490	0.2474	0.2909	0.2923	0.2921	0.3196	0.2650	-----	0.275	6.23	0.998	1.00	10	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2553	0.3109	0.3234	0.2973	0.2848	0.2947	0.3140	0.3902	-----	0.309	6.31	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.2606	0.2542	0.4048	0.3089	0.2973	0.2963	0.3150	0.4112	-----	0.319	6.62	0.999	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4350	0.4915	0.5114	0.4897	0.5259	0.5861	0.7304	0.7140	-----	0.561	6.41	0.990	1.00	19		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.2843	0.2674	0.2807	0.2996	0.3073	0.2795	0.2921	0.4271	-----	0.305	5.97	0.999	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.1884	0.2252	0.1855	0.2005	0.2079	0.1924	0.1936	0.2025	-----	0.200	6.43	1.00	1.00	6.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2216	0.2802	0.2517	0.2427	0.2616	0.2777	0.3615	0.3541	-----	0.281	6.40	0.987	1.00	18	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2373	1.3420	1.2673	1.3014	1.3291	1.2579	1.1297	1.2826	1.3238	1.27	6.06	-1	-1	5.1		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6920	0.7295	0.7460	0.7871	0.8478	0.8634	0.9499	1.0376	-----	0.832	6.09	0.998	1.00	14	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2382	0.2839	0.2721	0.2888	0.3073	0.3209	0.4248	0.2814	-----	0.302	6.92	0.986	1.00	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7224	0.7924	0.8370	0.8247	0.8550	0.8755	0.9565	1.0075	-----	0.859	6.88	0.998	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	0.9221	0.9957	1.0680	1.1417	1.0174	1.2642	1.2400	1.1349	-----	1.10	7.15	0.999	0.999	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.8568	0.9585	0.9874	1.1008	0.9979	1.2388	1.1350	0.9193	-----	1.02	7.27	0.997	0.998	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.3345	0.3592	0.3850	0.4128	0.3804	0.4589	0.4353	0.3867	-----	0.394	7.35	0.999	0.999	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.7897	0.7338	0.8649	0.7896	0.7351	0.9621	1.1382	0.8636	-----	0.860	6.93	0.992	1.00	16	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.6912	0.7062	0.8028	0.7577	0.6764	0.8307	0.8455	0.7777	-----	0.761	7.57	0.999	0.999	8.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.7687	0.8421	0.8694	0.7912	0.6764	0.8183	0.6047	0.7490	0.9220	0.782	7.52	-1	-1	12		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.5090	1.7156	1.8506	1.8451	1.7392	2.4202	2.1307	1.6815	-----	1.86	7.22	0.994	0.995	15	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.8952	0.8972	1.0319	1.0247	1.0031	1.3362	1.1270	1.0442	1.4506	1.09	6.99	0.992	0.995	17	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.9547	0.9939	1.0525	1.0129	0.9666	1.3509	1.5542	1.3224	-----	1.15	7.22	0.993	0.999	20	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2536	0.3333	0.3014	0.3200	0.2634	0.3387	0.3700	0.2148	-----	0.299	7.60	0.996	0.999	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	0.9153	0.9214	0.9500	1.0884	0.9589	1.1422	1.4146	1.4146	-----	1.10	8.15	0.990	1.00	19	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	0.9465	1.0892	1.0047	1.0841	1.0064	1.1533	1.3663	1.5394	-----	1.15	8.19	0.993	1.00	18	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	0.9061	0.9512	0.9450	0.9723	0.9540	1.0829	1.2368	1.1940	-----	1.03	8.42	0.996	1.00	12	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.9915	2.2780	2.4308	2.4158	2.2398	2.7960	2.2881	2.2955	-----	2.34	7.42	0.989	0.996	9.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0208	0.0317	0.0191	0.0236	0.0211	0.0197	0.0176	0.0252	-----	0.0224	7.50	0.996	1.00	20		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.4776	0.5116	0.5352	0.5855	0.5397	0.6603	0.6529	0.5661	-----	0.566	7.59	0.999	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.8407	0.9350	0.9551	0.9058	0.8497	1.0642	1.2176	0.9592	-----	0.966	7.61	0.994	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.2435	1.5724	1.6022	1.4859	1.5245	1.6766	1.7551	1.4565	-----	1.54	7.72	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 12.69

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_1

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	1M166414.D	CAL @ 20 PPB	10/29/22 05:17	2	1M166411.D	CAL @ 5 PPB	10/29/22 04:12
3	1M166412.D	CAL @10 PPB	10/29/22 04:33	4	1M166416.D	CAL @ 50 PPB	10/29/22 06:01
5	1M166419.D	CAL @ 100 PPB	10/29/22 07:06	6	1M166422.D	CAL @ 250 PPB	10/29/22 08:12
7	1M166426.D	CAL @ 500 PPB	10/29/22 09:39	8	1M166409.D	CAL @1 PPB	10/29/22 03:28
9	1M166408.D	CAL @ 0.5 PPB	10/29/22 03:06				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.7754	2.0009	2.0621	2.2127	2.1319	2.4615	2.5438	2.0800	-----	2.16	7.71	0.999	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.2856	1.2180	1.4206	1.5855	1.3266	1.4874	1.7550	1.4565	-----	1.44	7.77	0.994	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.3058	2.7096	2.7674	2.8016	2.5687	3.2403	2.4134	2.8789	-----	2.71	7.64	0.977	0.993	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3892	1.7470	1.6024	1.5155	1.2648	1.5881	1.7733	1.3154	-----	1.52	7.62	0.995	0.999	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.5130	1.7795	1.9051	1.6468	1.6812	1.8908	2.1725	1.8771	-----	1.81	7.73	0.995	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.5584	0.6188	0.7059	0.8155	0.7513	0.8453	-----	0.5966	-----	0.699	7.74	0.998	0.999	16	0.50	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
t-Butylbenzene	1	0	Avg	1.3841	1.4900	1.6208	1.6971	1.5944	1.7309	1.9301	1.7129	-----	1.65	7.93	0.997	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.5641	1.4512	1.6677	1.8607	1.7054	1.9344	2.1578	1.8288	-----	1.77	7.95	0.997	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.7488	1.7994	1.7538	2.1089	1.9142	2.1388	2.2164	2.1424	-----	1.98	8.06	0.999	1.00	9.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.4443	1.3503	1.4619	1.6704	1.6313	1.9164	2.1743	1.5885	-----	1.65	8.13	0.996	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.5188	1.5249	1.5566	1.8598	1.7536	2.1120	2.4046	1.7182	-----	1.81	8.36	0.995	1.00	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.7629	0.6910	0.7200	0.9176	0.8676	1.0423	-----	0.8411	-----	0.835	8.35	0.996	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	0.9562	1.1500	1.1595	1.3392	1.1995	1.6257	1.4940	1.4162	-----	1.29	8.81	0.996	0.997	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1092	0.1463	0.1449	0.1443	0.1297	0.1406	0.1257	0.1672	-----	0.139	8.87	0.997	0.999	12	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0499	0.0525	0.0511	0.0557	0.0593	0.0651	0.0650	0.0734	0.0793	0.0613	9.30	1.00	1.00	17		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.1658	0.2738	0.1916	0.2073	0.2003	0.2398	0.2132	0.2377	-----	0.216	9.45	0.996	0.998	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.4300	0.5706	0.5933	0.5617	0.5465	0.6183	0.5453	0.6950	-----	0.570	9.36	0.996	0.999	13	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.3934	0.4748	0.5278	0.5060	0.4866	0.5505	0.4785	0.5868	-----	0.501	9.66	0.995	0.998	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.4022	1.3504	1.5852	1.6131	1.5715	1.8020	1.6265	1.5252	-----	1.56	9.52	0.997	0.999	9.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 12.69
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M175767.D **Instrument:** GCMS 2

Cont Calibration Date/Time 11/4/2022 11:44:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.70	15.46	20	20	0.1	0.262	0.202	22.72	C1
Dichlorodifluoromethane	1	0		1.68	11.84	20	20	0.1	0.284	0.168	40.82	C1
Chloromethane	1	0		1.86	16.42	20	20	0.1	0.190	0.156	17.92	
Bromomethane	1	0		2.25	22.02	20	20	0.1	0.105	0.102	10.12	
Vinyl Chloride	1	0		1.95	17.64	20	20	0.1	0.244	0.215	11.82	
Chloroethane	1	0		2.34	19.76	20	20	0.1	0.159	0.157	1.18	
Trichlorofluoromethane	1	0		2.56	21.98	20	20	0.1	0.430	0.473	9.91	
Ethyl ether	1	0		2.80	17.12	20	20	0.5	0.182	0.156	14.39	
Furan	1	0		2.84	17.41	20	20	0.5	0.301	0.262	12.95	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.00	16.66	20	20	0.1	0.198	0.165	16.72	
Methylene Chloride	1	0		3.41	16.57	20	20	0.1	0.234	0.194	17.16	
Acrolein	1	0		2.92	76.19	100	20		0.047	0.036	23.81	C1
Acrylonitrile	1	0		3.62	17.63	20	20		0.095	0.083	11.87	
Iodomethane	1	0		3.15	7.30	20	20		0.262	0.109	63.50	C1
Acetone	1	0		3.04	83.43	100	20	0.1	0.072	0.060	16.57	
Carbon Disulfide	1	0		3.21	16.00	20	20	0.1	0.580	0.464	19.99	
t-Butyl Alcohol	1	0		3.48	73.35	100	20		0.029	0.022	26.65	C1
n-Hexane	1	0		3.87	18.79	20	20		0.180	0.169	6.03	
Di-isopropyl-ether	1	0		4.03	17.70	20	20		0.556	0.492	11.50	
1,1-Dichloroethene	1	0		3.01	17.70	20	20	0.1	0.300	0.265	11.51	
Methyl Acetate	1	0		3.31	16.78	20	20	0.1	0.220	0.184	16.11	
Methyl-t-butyl ether	1	0		3.64	17.51	20	20	0.1	0.620	0.543	12.46	
1,1-Dichloroethane	1	0		3.99	17.78	20	20	0.2	0.370	0.329	11.11	
trans-1,2-Dichloroethene	1	0		3.65	17.04	20	20	0.1	0.245	0.209	14.78	
Ethyl-t-butyl ether	1	0		4.29	17.95	20	20	0.5	0.578	0.518	10.27	
cis-1,2-Dichloroethene	1	0		4.41	18.39	20	20	0.1	0.363	0.334	8.03	
Bromochloromethane	1	0		4.56	18.73	20	20		0.160	0.150	6.36	
2,2-Dichloropropane	1	0		4.41	18.31	20	20		0.326	0.299	8.43	
Ethyl acetate	1	0		4.43	17.81	20	20		0.238	0.212	10.97	
1,4-Dioxane	1	0		5.49	898.44	1000	20		0.004	0.004	10.16	
1,1-Dichloropropene	1	0		4.82	18.87	20	20		0.295	0.278	5.67	
Chloroform	1	0		4.60	18.82	20	20	0.2	0.411	0.386	5.88	
Dibromofluoromethane	1	0	S	4.70	28.42	30	**		0.279	0.264	5.27	
Cyclohexane	1	0		4.77	18.51	20	20	0.1	0.255	0.236	7.44	
1,2-Dichloroethane-d4	1	0	S	4.90	30.77	30	**		0.130	0.134	2.58	
1,2-Dichloroethane	1	0		4.95	19.53	20	20	0.1	0.297	0.290	2.36	
2-Butanone	1	0		4.41	17.03	20	20	0.1	0.099	0.084	14.84	
1,1,1-Trichloroethane	1	0		4.73	18.41	20	20	0.1	0.385	0.354	7.94	
Carbon Tetrachloride	1	0		4.83	18.51	20	20	0.1	0.350	0.324	7.46	
Vinyl Acetate	1	0		4.02	17.77	20	20		0.552	0.491	11.13	
Bromodichloromethane	1	0		5.57	18.47	20	20	0.2	0.315	0.291	7.63	
Methylcyclohexane	1	0		5.41	19.41	20	20	0.1	0.257	0.249	2.95	
Dibromomethane	1	0		5.49	16.13	20	20		0.199	0.160	19.35	
1,2-Dichloropropane	1	0		5.42	18.40	20	20	0.1	0.206	0.189	7.99	
Trichloroethene	1	0		5.30	17.06	20	20	0.2	0.293	0.250	14.68	
Benzene	1	0		4.95	18.18	20	20	0.5	0.881	0.801	9.08	
tert-Amyl methyl ether	1	0		4.99	18.07	20	20		0.612	0.552	9.67	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.95	17.34	20	20	0.5	0.543	0.471	13.29	
Methyl methacrylate	1	0		5.45	19.84	20	20	0.5	0.239	0.237	0.82	
Dibromochloromethane	1	0		6.42	18.50	20	20	0.1	0.355	0.329	7.51	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M175767.D **Instrument:** GCMS 2

Cont Calibration Date/Time 11/4/2022 11:44:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.70	20.89	20	20		0.150	0.157	4.46	
cis-1,3-Dichloropropene	1	0		5.80	18.51	20	20	0.2	0.457	0.423	7.45	
trans-1,3-Dichloropropene	1	0		6.09	18.40	20	20	0.1	0.419	0.386	7.98	
Ethyl methacrylate	1	0		6.10	18.31	20	20	0.5	0.243	0.222	8.46	
1,1,2-Trichloroethane	1	0		6.20	19.56	20	20	0.1	0.278	0.272	2.21	
1,2-Dibromoethane	1	0		6.49	19.52	20	20	0.1	0.316	0.308	2.41	
1,3-Dichloropropane	1	0		6.29	20.08	20	20		0.446	0.448	0.41	
4-Methyl-2-Pentanone	1	0		5.87	17.95	20	20	0.1	0.281	0.252	10.23	
2-Hexanone	1	0		6.30	18.46	20	20	0.1	0.204	0.188	7.71	
Tetrachloroethene	1	0		6.29	17.46	20	20	0.2	0.278	0.243	12.69	
Toluene-d8	1	0	S	5.95	31.88	30	**		1.237	1.315	6.27	
Toluene	1	0		5.99	19.84	20	20	0.4	0.737	0.731	0.79	
1,1,1,2-Tetrachloroethane	1	0		6.78	19.02	20	20		0.312	0.296	4.90	
Chlorobenzene	1	0		6.75	19.59	20	20	0.5	0.850	0.832	2.06	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	17.81	20	20	0.5	1.117	0.995	10.93	
n-Amyl acetate	1	0		7.11	18.23	20	20	0.5	0.963	0.878	8.86	
Bromoform	1	0		7.20	16.59	20	20	0.1	0.556	0.461	17.03	
Ethylbenzene	1	0		6.79	20.07	20	20	0.1	0.735	0.738	0.36	
1,1,2,2-Tetrachloroethane	1	0		7.42	19.73	20	20	0.1	0.814	0.803	1.36	
Bromofluorobenzene	1	0	S	7.37	27.47	30	**		0.871	0.798	8.43	
Styrene	1	0		7.07	19.74	20	20	0.3	1.848	1.824	1.31	
m&p-Xylenes	1	0		6.85	40.85	40	20	0.1	1.073	1.096	2.13	
o-Xylene	1	0		7.07	20.05	20	20	0.3	1.073	1.076	0.24	
trans-1,4-Dichloro-2-butene	1	0		7.45	19.21	20	20		0.280	0.269	3.97	
1,3-Dichlorobenzene	1	0		7.99	19.58	20	20	0.6	1.178	1.153	2.11	
1,4-Dichlorobenzene	1	0		8.04	19.36	20	20	0.5	1.213	1.174	3.21	
1,2-Dichlorobenzene	1	0		8.26	19.36	20	20	0.4	1.135	1.099	3.22	
Isopropylbenzene	1	0		7.26	20.53	20	20	0.1	2.437	2.502	2.64	
Cyclohexanone	1	0		7.34	86.65	100	20		0.036	0.031	13.35	
Camphene	1	0		7.43	21.26	20	20		0.593	0.630	6.28	
1,2,3-Trichloropropane	1	0		7.46	19.28	20	20		0.995	0.959	3.61	
2-Chlorotoluene	1	0		7.56	20.00	20	20		1.413	1.414	0.02	
p-Ethyltoluene	1	0		7.55	20.09	20	20		2.261	2.271	0.44	
4-Chlorotoluene	1	0		7.62	21.10	20	20		1.363	1.437	5.48	
n-Propylbenzene	1	0		7.49	20.93	20	20		2.561	2.680	4.64	
Bromobenzene	1	0		7.46	20.36	20	20		1.459	1.485	1.79	
1,3,5-Trimethylbenzene	1	0		7.58	22.25	20	20		1.723	1.917	11.24	
Butyl methacrylate	1	0		7.59	18.58	20	20	0.5	0.610	0.566	7.11	
t-Butylbenzene	1	0		7.77	20.42	20	20		1.792	1.830	2.09	
1,2,4-Trimethylbenzene	1	0		7.80	21.01	20	20		1.843	1.936	5.06	
sec-Butylbenzene	1	0		7.90	20.95	20	20		2.053	2.150	4.74	
4-Isopropyltoluene	1	0		7.96	20.55	20	20		1.802	1.851	2.76	
n-Butylbenzene	1	0		8.20	21.22	20	20		1.700	1.804	6.08	
p-Diethylbenzene	1	0		8.19	20.29	20	20		1.001	1.016	1.46	
1,2,4,5-Tetramethylbenzene	1	0		8.65	19.79	20	20		1.407	1.393	1.05	
1,2-Dibromo-3-Chloropropane	1	0		8.71	16.16	20	20	0.05	0.236	0.191	19.20	
Camphor	1	0		9.15	178.42	200	20		0.093	0.083	10.79	
Hexachlorobutadiene	1	0		9.28	14.93	20	20		0.262	0.195	25.35	C1
1,2,4-Trichlorobenzene	1	0		9.20	16.81	20	20	0.2	0.590	0.496	15.96	
1,2,3-Trichlorobenzene	1	0		9.50	16.27	20	20		0.523	0.425	18.67	
Naphthalene	1	0		9.36	18.21	20	20		1.959	1.783	8.96	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M166669.D **Instrument:** GCMS 1

Cont Calibration Date/Time 11/4/2022 12:22:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.15	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.67	42.20	20	20	0.1	0.223	0.470	111.01	C1
Dichlorodifluoromethane	1	0		1.66	43.90	20	20	0.1	0.213	0.467	119.48	C1
Chloromethane	1	0		1.83	31.51	20	20	0.1	0.214	0.337	57.53	C1
Bromomethane	1	0		2.21	16.04	20	20	0.1	0.215	0.172	19.80	
Vinyl Chloride	1	0		1.92	26.94	20	20	0.1	0.245	0.330	34.69	C1
Chloroethane	1	0		2.29	22.74	20	20	0.1	0.192	0.218	13.68	
Trichlorofluoromethane	1	0		2.51	23.32	20	20	0.1	0.483	0.563	16.62	
Ethyl ether	1	0		2.74	19.90	20	20	0.5	0.215	0.214	0.52	
Furan	1	0		2.78	22.55	20	20	0.5	0.424	0.478	12.74	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.93	21.61	20	20	0.1	0.244	0.263	8.03	
Methylene Chloride	1	0		3.34	18.32	20	20	0.1	0.287	0.263	8.38	
Acrolein	1	0		2.85	106.96	100	20		0.041	0.044	6.96	
Acrylonitrile	1	0		3.54	21.57	20	20		0.100	0.108	7.86	
Iodomethane	1	0		3.09	12.70	20	20		0.260	0.165	36.48	C1
Acetone	1	0		2.97	114.10	100	20	0.1	0.070	0.079	14.10	
Carbon Disulfide	1	0		3.16	19.73	20	20	0.1	0.720	0.710	1.37	
t-Butyl Alcohol	1	0		3.41	89.28	100	20		0.024	0.021	10.72	
n-Hexane	1	0		3.81	28.39	20	20		0.176	0.250	41.96	C1
Di-isopropyl-ether	1	0		3.98	20.33	20	20		0.734	0.746	1.66	
1,1-Dichloroethene	1	0		2.94	19.25	20	20	0.1	0.439	0.423	3.73	
Methyl Acetate	1	0		3.24	23.19	20	20	0.1	0.218	0.253	15.96	
Methyl-t-butyl ether	1	0		3.57	16.27	20	20	0.1	0.800	0.651	18.66	
1,1-Dichloroethane	1	0		3.94	20.42	20	20	0.2	0.484	0.494	2.08	
trans-1,2-Dichloroethene	1	0		3.58	17.81	20	20	0.1	0.305	0.272	10.95	
Ethyl-t-butyl ether	1	0		4.28	18.30	20	20	0.5	0.701	0.641	8.48	
cis-1,2-Dichloroethene	1	0		4.40	19.49	20	20	0.1	0.457	0.446	2.55	
Bromochloromethane	1	0		4.57	19.78	20	20		0.236	0.233	1.09	
2,2-Dichloropropane	1	0		4.41	29.00	20	20		0.310	0.450	44.99	C1
Ethyl acetate	1	0		4.44	20.71	20	20		0.253	0.262	3.56	
1,4-Dioxane	1	0		5.57	781.92	1000	20		0.004	0.003	21.81	C1
1,1-Dichloropropene	1	0		4.86	18.45	20	20		0.392	0.362	7.73	
Chloroform	1	0		4.62	20.03	20	20	0.2	0.515	0.516	0.15	
Dibromofluoromethane	1	0	S	4.72	30.44	30	**		0.296	0.301	1.46	
Cyclohexane	1	0		4.80	20.88	20	20	0.1	0.308	0.321	4.38	
1,2-Dichloroethane-d4	1	0	S	4.94	32.80	30	**		0.147	0.160	9.32	
1,2-Dichloroethane	1	0		4.99	18.74	20	20	0.1	0.422	0.396	6.29	
2-Butanone	1	0		4.40	19.46	20	20	0.1	0.107	0.104	2.71	
1,1,1-Trichloroethane	1	0		4.76	19.98	20	20	0.1	0.493	0.492	0.11	
Carbon Tetrachloride	1	0		4.86	20.28	20	20	0.1	0.433	0.439	1.39	
Vinyl Acetate	1	0		3.97	19.94	20	20		0.730	0.728	0.30	
Bromodichloromethane	1	0		5.64	17.65	20	20	0.2	0.405	0.358	11.73	
Methylcyclohexane	1	0		5.49	18.61	20	20	0.1	0.304	0.283	6.93	
Dibromomethane	1	0		5.56	21.16	20	20		0.185	0.196	5.78	
1,2-Dichloropropane	1	0		5.50	20.29	20	20	0.1	0.264	0.268	1.44	
Trichloroethene	1	0		5.37	21.71	20	20	0.2	0.277	0.300	8.53	
Benzene	1	0		4.99	17.70	20	20	0.5	1.188	1.051	11.52	
tert-Amyl methyl ether	1	0		5.04	16.96	20	20		0.700	0.594	15.20	
Chlorobenzene-d5	1	0	I	6.87	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		5.00	16.91	20	20	0.5	0.703	0.594	15.45	
Methyl methacrylate	1	0		5.54	19.72	20	20	0.5	0.263	0.259	1.41	
Dibromochloromethane	1	0		6.54	21.20	20	20	0.1	0.398	0.336	5.98	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 1M166669.D **Instrument:** GCMS 1

Cont Calibration Date/Time 11/4/2022 12:22:00 P Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.80	17.65	20	20		0.161	0.142	11.75	
cis-1,3-Dichloropropene	1	0		5.90	19.26	20	20	0.2	0.502	0.483	3.71	
trans-1,3-Dichloropropene	1	0		6.20	18.78	20	20	0.1	0.458	0.431	6.08	
Ethyl methacrylate	1	0		6.23	19.26	20	20	0.5	0.275	0.265	3.69	
1,1,2-Trichloroethane	1	0		6.31	18.72	20	20	0.1	0.309	0.289	6.38	
1,2-Dibromoethane	1	0		6.62	18.50	20	20	0.1	0.319	0.295	7.49	
1,3-Dichloropropane	1	0		6.40	17.60	20	20		0.561	0.493	12.00	
4-Methyl-2-Pentanone	1	0		5.97	17.65	20	20	0.1	0.305	0.269	11.74	
2-Hexanone	1	0		6.43	18.60	20	20	0.1	0.200	0.186	6.99	
Tetrachloroethene	1	0		6.40	21.72	20	20	0.2	0.281	0.306	8.61	
Toluene-d8	1	0	S	6.05	28.66	30	**		1.275	1.218	4.47	
Toluene	1	0		6.09	17.64	20	20	0.4	0.832	0.734	11.79	
1,1,1,2-Tetrachloroethane	1	0		6.92	20.58	20	20		0.302	0.311	2.92	
Chlorobenzene	1	0		6.88	19.09	20	20	0.5	0.859	0.820	4.56	
1,4-Dichlorobenzene-d4	1	0	I	8.18	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.15	13.83	20	20	0.5	1.098	0.759	30.83	C1
n-Amyl acetate	1	0		7.27	14.98	20	20	0.5	1.024	0.767	25.12	C1
Bromoform	1	0		7.35	19.46	20	20	0.1	0.394	0.384	2.70	
Ethylbenzene	1	0		6.93	13.64	20	20	0.1	0.860	0.586	31.79	C1
1,1,2,2-Tetrachloroethane	1	0		7.57	16.00	20	20	0.1	0.761	0.609	19.98	
Bromofluorobenzene	1	0	S	7.52	27.75	30	**		0.782	0.724	7.51	
Styrene	1	0		7.22	14.36	20	20	0.3	1.862	1.336	28.21	C1
m&p-Xylenes	1	0		6.99	29.42	40	20	0.1	1.090	0.802	26.45	C1
o-Xylene	1	0		7.22	13.88	20	20	0.3	1.151	0.799	30.58	C1
trans-1,4-Dichloro-2-butene	1	0		7.60	16.40	20	20		0.299	0.245	18.02	
1,3-Dichlorobenzene	1	0		8.14	19.75	20	20	0.6	1.101	1.087	1.23	
1,4-Dichlorobenzene	1	0		8.19	19.13	20	20	0.5	1.149	1.099	4.34	
1,2-Dichlorobenzene	1	0		8.41	20.49	20	20	0.4	1.030	1.055	2.43	
Isopropylbenzene	1	0		7.42	15.52	20	20	0.1	2.342	1.817	22.41	C1
Cyclohexanone	1	0		7.49	96.93	100	20		0.022	0.022	3.07	
Camphene	1	0		7.59	17.16	20	20		0.566	0.486	14.21	
1,2,3-Trichloropropane	1	0		7.61	15.66	20	20		0.966	0.756	21.72	C1
2-Chlorotoluene	1	0		7.71	17.62	20	20		1.540	1.356	11.92	
p-Ethyltoluene	1	0		7.71	16.99	20	20		2.159	1.833	15.06	
4-Chlorotoluene	1	0		7.77	18.12	20	20		1.442	1.307	9.38	
n-Propylbenzene	1	0		7.64	16.75	20	20		2.711	2.270	16.26	
Bromobenzene	1	0		7.62	17.18	20	20		1.525	1.309	14.12	
1,3,5-Trimethylbenzene	1	0		7.73	16.09	20	20		1.808	1.455	19.56	
Butyl methacrylate	1	0		7.74	16.26	20	20	0.5	0.699	0.568	18.68	
t-Butylbenzene	1	0		7.93	16.16	20	20		1.645	1.329	19.22	
1,2,4-Trimethylbenzene	1	0		7.96	16.54	20	20		1.771	1.465	17.28	
sec-Butylbenzene	1	0		8.06	16.14	20	20		1.978	1.596	19.32	
4-Isopropyltoluene	1	0		8.13	16.47	20	20		1.655	1.363	17.63	
n-Butylbenzene	1	0		8.37	17.32	20	20		1.806	1.564	13.41	
p-Diethylbenzene	1	0		8.35	16.78	20	20		0.835	0.700	16.12	
1,2,4,5-Tetramethylbenzene	1	0		8.81	12.91	20	20		1.293	0.834	35.45	C1
1,2-Dibromo-3-Chloropropane	1	0		8.87	20.91	20	20	0.05	0.139	0.145	4.57	
Camphor	1	0		9.30	120.16	200	20		0.061	0.037	39.92	C1
Hexachlorobutadiene	1	0		9.45	28.64	20	20		0.216	0.310	43.20	C1
1,2,4-Trichlorobenzene	1	0		9.36	20.10	20	20	0.2	0.570	0.573	0.51	
1,2,3-Trichlorobenzene	1	0		9.66	20.50	20	20		0.501	0.513	2.52	
Naphthalene	1	0		9.52	16.28	20	20		1.560	1.270	18.59	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M175253.D Method: EPA 8260D

Analysis Date/Time: 10/25/22 16:39

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	192109	5.09	151310	6.73	72940	8.02								
Eval File Area Limit:	96054-384218		75655-302620		36470-145880									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									

Data File	Sample#						
2M175245.D	CAL @ 0.5 PPB	188788	5.09	153749	6.73	72078	8.02
2M175246.D	CAL @ 1 PPB	190728	5.09	150536	6.73	70997	8.02
2M175249.D	CAL @ 5 PPB	192096	5.09	154525	6.73	74202	8.02
2M175251.D	CAL @ 10 PPB	192415	5.09	152784	6.73	72906	8.02
2M175253.D	CAL @ 20 PPB	192109	5.09	151310	6.73	72940	8.02
2M175255.D	CAL @ 50 PPB	186660	5.09	146705	6.73	69972	8.02
2M175258.D	CAL @ 100 PPB	186231	5.09	146807	6.73	72653	8.02
2M175262.D	CAL @ 250 PPB	180082	5.09	145322	6.73	70727	8.02
2M175266.D	CAL @ 500 PPB	175951	5.09	145310	6.73	73827	8.02
2M175270.D	BLK	196196	5.09	151849	6.73	68584	8.02
2M175272.D	STD	188122	5.09	144971	6.73	68692	8.02
2M175274.D	ICV	218413	5.09	166850	6.73	76275	8.02

I1 =	Fluorobenzene	I4 =		I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =			624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M166414.D Method: EPA 8260D

Analysis Date/Time: 10/29/22 05:17

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	566785	5.15	439105	6.87	227758	8.18								
Eval File Area Limit:	283392-1133570		219552-878210		113879-455516									
Eval File Rt Limit:	4.65-5.65		6.37-7.37		7.68-8.68									

Data File	Sample#						
1M166403.D	BLK	293944	5.14	235764	6.86	127934	8.18
1M166407.D	BLK	608236	5.15	474493	6.87	219221	8.18
1M166408.D	CAL @ 0.5 PPB	647178	5.15	486601	6.87	224440	8.18
1M166409.D	CAL @1 PPB	582156	5.15	460422	6.87	218839	8.18
1M166410.D	1 PPB	592839	5.15	458917	6.87	209835	8.18
1M166411.D	CAL @ 5 PPB	598039	5.15	460465	6.87	221463	8.18
1M166412.D	CAL @10 PPB	582289	5.15	452735	6.87	221306	8.18
1M166414.D	CAL @ 20 PPB	566785	5.15	439105	6.87	227758	8.18
1M166416.D	CAL @ 50 PPB	544595	5.15	411861	6.87	216450	8.18
1M166419.D	CAL @ 100 PPB	525463	5.15	389240	6.87	234120	8.18
1M166422.D	CAL @ 250 PPB	495938	5.15	399305	6.87	204371	8.18
1M166426.D	CAL @ 500 PPB	548467	5.15	466161	6.87	286643	8.18
1M166432.D	ICV	512545	5.15	331462	6.87	152638	8.18
1M166436.D	BLK	586185	5.15	367297	6.87	110022A	8.18

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M175767.D Method: EPA 8260D

Analysis Date/Time: 11/04/22 11:44

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	134411	5.09	104655	6.73	50622	8.02								
Eval File Area Limit:	67206-268822		52328-209310		25311-101244									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									

Data File	Sample#													
2M175769.D	BLK	122989	5.09	95166	6.73	40215	8.02							
2M175770.D	DAILY BLANK	131315	5.09	101321	6.73	42499	8.02							
2M175771.D	DAILY BLANK	122745	5.09	97213	6.73	41165	8.02							
2M175772.D	AD34314-005	121074	5.09	95827	6.73	40895	8.02							
2M175773.D	AD34314-009	113079	5.09	88776	6.73	37328	8.02							
2M175774.D	AD34316-007	112953	5.09	89958	6.73	38615	8.02							
2M175775.D	AD34331-006	119690	5.09	101515	6.73	64937	8.02							
2M175776.D	AD34331-002(80uL)	145023	5.09	116241	6.73	61642	8.02							
2M175777.D	AD34331-004	143755	5.09	114641	6.73	56473	8.02							
2M175778.D	MBS105152	151309	5.09	118822	6.73	58185	8.02							
2M175779.D	MBS105156	150546	5.09	117797	6.73	58188	8.02							
2M175780.D	BLK	141114	5.09	110080	6.73	49622	8.02							
2M175781.D	AD34311-005	135732	5.09	109230	6.73	62847	8.02							
2M175782.D	AD34311-006	150606	5.09	122444	6.73	70173	8.02							
2M175783.D	AD34311-007	158873	5.09	127850	6.73	76367	8.02							
2M175784.D	AD34214-009(50X)(T)	175784	5.09	141649	6.73	68200	8.02							
2M175785.D	AD34311-003	157770	5.09	127291	6.73	77834	8.02							
2M175786.D	BLK	167064	5.09	136465	6.73	67871	8.02							
2M175787.D	AD34311-004	161470	5.09	128443	6.73	75495	8.02							
2M175788.D	AD34331-004(MS)	162253	5.09	127862	6.73	66204	8.02							
2M175789.D	AD34331-004(MSD)	160756	5.09	128355	6.73	65205	8.02							
2M175790.D	AD34214-009(50X)(T:	148787	5.09	120246	6.73	57667	8.02							
2M175791.D	AD34214-009(50X)(T:	168615	5.09	134036	6.73	60139	8.02							
2M175792.D	AD34333-002	154069	5.09	124173	6.73	63433	8.02							
2M175793.D	AD34333-003	152988	5.09	123350	6.73	63144	8.02							
2M175794.D	AD34333-004(400uL)	156686	5.09	128173	6.73	71858	8.02							
2M175795.D	BLK	173375	5.09	137233	6.73	63581	8.02							
2M175796.D	AD34332-002(40uL)	167439	5.09	133550	6.73	65692	8.02							
2M175797.D	AD34332-001(80uL)	155644	5.09	126726	6.73	67121	8.02							
2M175798.D	BLK	165766	5.09	132330	6.73	59481	8.02							
2M175799.D	AD34214-009(50X)(T)	156148	5.09	126277	6.73	58253	8.02							
2M175800.D	AD34365-004	149442	5.09	121489	6.73	64811	8.02							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2110304 0088

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M175767.D Method: EPA 8260D

Analysis Date/Time: 11/04/22 11:44

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	134411	5.09	104655	6.73	50622	8.02								
Eval File Area Limit:	67206-268822		52328-209310		25311-101244									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									

Data File	Sample#													
2M175801.D	AD34365-001	157947	5.09	125928	6.73	80073	8.02							
2M175802.D	AD34365-005	169640	5.09	130983	6.73	69353	8.02							
2M175803.D	34365-002	163335	5.09	127046	6.73	71438	8.02							
2M175804.D	34365-003	164318	5.09	130641	6.73	66185	8.02							
2M175805.D	34372-001	180980	5.09	145741	6.73	74538	8.02							
2M175806.D	34372-003	160228	5.09	126828	6.73	61829	8.02							
2M175807.D	BLK	172837	5.09	137416	6.73	65767	8.02							
2M175808.D	BLK	169048	5.09	137147	6.73	66333	8.02							
2M175809.D	BLK	175662	5.09	139103	6.73	64334	8.02							
2M175810.D	BLK	164459	5.09	130858	6.73	60500	8.02							
2M175811.D	AD34346-001	153051	5.09	121260	6.73	59555	8.02							

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M166669.D Method: EPA 8260D

Analysis Date/Time: 11/04/22 12:22

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	563140	5.15	458649	6.87	275719	8.18								
Eval File Area Limit:	281570-1126280		229324-917298		137860-551438									
Eval File Rt Limit:	4.65-5.65		6.37-7.37		7.68-8.68									

Data File	Sample#						
1M166672.D	BLK-di	612161	5.15	496161	6.87	238885	8.18
1M166673.D	DAILY BLANK	588851	5.15	487590	6.87	243238	8.18
1M166674.D	DAILY BLANK	578837	5.15	478629	6.87	204079	8.18
1M166675.D	AD34272-002(T)	581800	5.15	483386	6.86	251490	8.18
1M166676.D	AD34287-015	609009	5.15	495023	6.87	262832	8.18
1M166677.D	AD34287-016	612154	5.15	497696	6.87	298224	8.18
1M166678.D	MBS105154	673766	5.15	547844	6.87	308271	8.18
1M166679.D	MBS105155	644093	5.15	515291	6.87	321459	8.18
1M166680.D	AD34187-001(50X)(T)	609697	5.15	513289	6.87	251532	8.18
1M166681.D	AD34316-001	639093	5.15	509040	6.87	286368	8.18
1M166682.D	AD34316-002	610041	5.15	486528	6.87	265918	8.18
1M166683.D	AD34316-003	629175	5.15	509751	6.87	271505	8.18
1M166684.D	AD34316-004	627667	5.15	515282	6.87	222280	8.18
1M166685.D	AD34316-005	620292	5.15	503088	6.87	274463	8.18
1M166686.D	AD34316-006	624282	5.15	497298	6.87	268573	8.18
1M166687.D	AD34187-001(50X)(T:	574257	5.15	479123	6.87	239981	8.18
1M166688.D	AD34187-001(50X)(T:	644930	5.15	524117	6.87	280844	8.18
1M166689.D	BLK	615800	5.15	505858	6.87	255698	8.18
1M166690.D	AD34238-010	611358	5.15	497800	6.87	237739	8.18
1M166691.D	AD34316-006	617604	5.15	499244	6.87	238364	8.18
1M166692.D	AD34316-004	633154	5.15	519823	6.87	233942	8.18
1M166695.D	34373-002	638459	5.14	527498	6.87	273859	8.18
1M166697.D	AD34316-005	627314	5.15	514755	6.87	282421	8.18
1M166698.D	AD34316-003(5X)	583902	5.15	474074	6.87	226703	8.18
1M166699.D	34373-004	632811	5.14	504588	6.86	277830	8.18
1M166700.D	34316-003(5X)	646569	5.15	519617	6.87	254890	8.18
1M166701.D	34359-001	586083	5.15	482466	6.87	222748	8.18
1M166702.D	34356-001	607917	5.15	486415	6.87	258811	8.18
1M166703.D	34356-002	609907	5.14	487085	6.87	221647	8.18
1M166704.D	34356-003	613104	5.14	507409	6.87	238148	8.18
1M166705.D	34356-004	610449	5.14	510914	6.87	254823	8.18
1M166706.D	34356-005	613518	5.14	500306	6.87	270554	8.18

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2110304 0090

FORM8

Internal Standard Areas

Evaluation Std Data File: 1M166669.D Method: EPA 8260D

Analysis Date/Time: 11/04/22 12:22

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	563140	5.15	458649	6.87	275719	8.18								
Eval File Area Limit:	281570-1126280		229324-917298		137860-551438									
Eval File Rt Limit:	4.65-5.65		6.37-7.37		7.68-8.68									
Data File Sample#														
1M166707.D 34356-006	619876	5.15	510474	6.87	242702	8.18								
1M166708.D 34356-007	620927	5.14	498557	6.87	233163	8.18								
1M166709.D 34356-008	588595	5.15	475970	6.87	227793	8.18								
1M166710.D 34356-009	620206	5.14	504579	6.87	242397	8.18								
1M166711.D 34356-010	623976	5.14	508769	6.87	241375	8.18								
1M166712.D 34358-001	613370	5.14	503457	6.87	252368	8.18								
1M166713.D 34358-003	624750	5.14	515146	6.87	262959	8.18								
1M166714.D 34373-006	642565	5.14	512655	6.87	250232	8.18								

I1 =	Fluorobenzene	I4 =		I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =			624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =			524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-001
Client Id: TMW-22S
Data File: 8G669505.D
Analysis Date: 11/14/22 21:16
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 665493

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669505.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 21:16:42
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-001
Misc : A.TPH
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 09:35:46 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	18576	10.569		
23)	O-Terphenyl	6.521f	44523	15.579		
24)d	Diesel Range Organics(T	6.520f	644789	276.609		m
25)t	Total Petroleum Hydroca	6.520f	2465777	1082.023		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

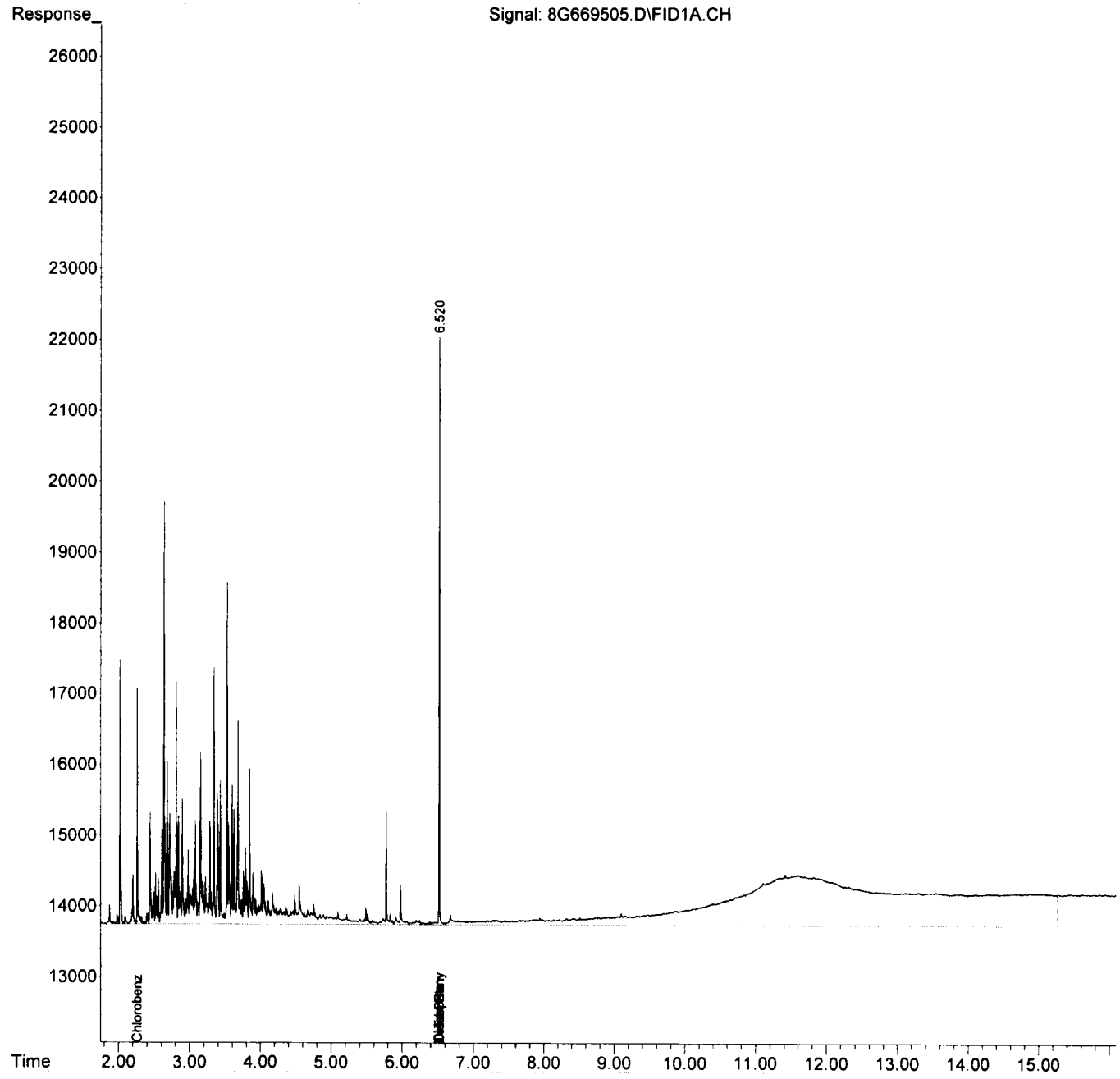
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669505.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 21:16:42
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-001
Misc : A.TPH
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 09:35:46 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-002
Client Id: TMW-22D
Data File: 8G669508.D
Analysis Date: 11/14/22 22:34
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 665493

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669508.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 22:34:45
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-002
Misc : A.TPH
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 09:40:28 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.262	17964	10.221		
23)	O-Terphenyl	6.516f	40627	14.216		
24)d	Diesel Range Organics(T	6.516f	451634	193.747		m
25)t	Total Petroleum Hydroca	2.020	1928876	846.422		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

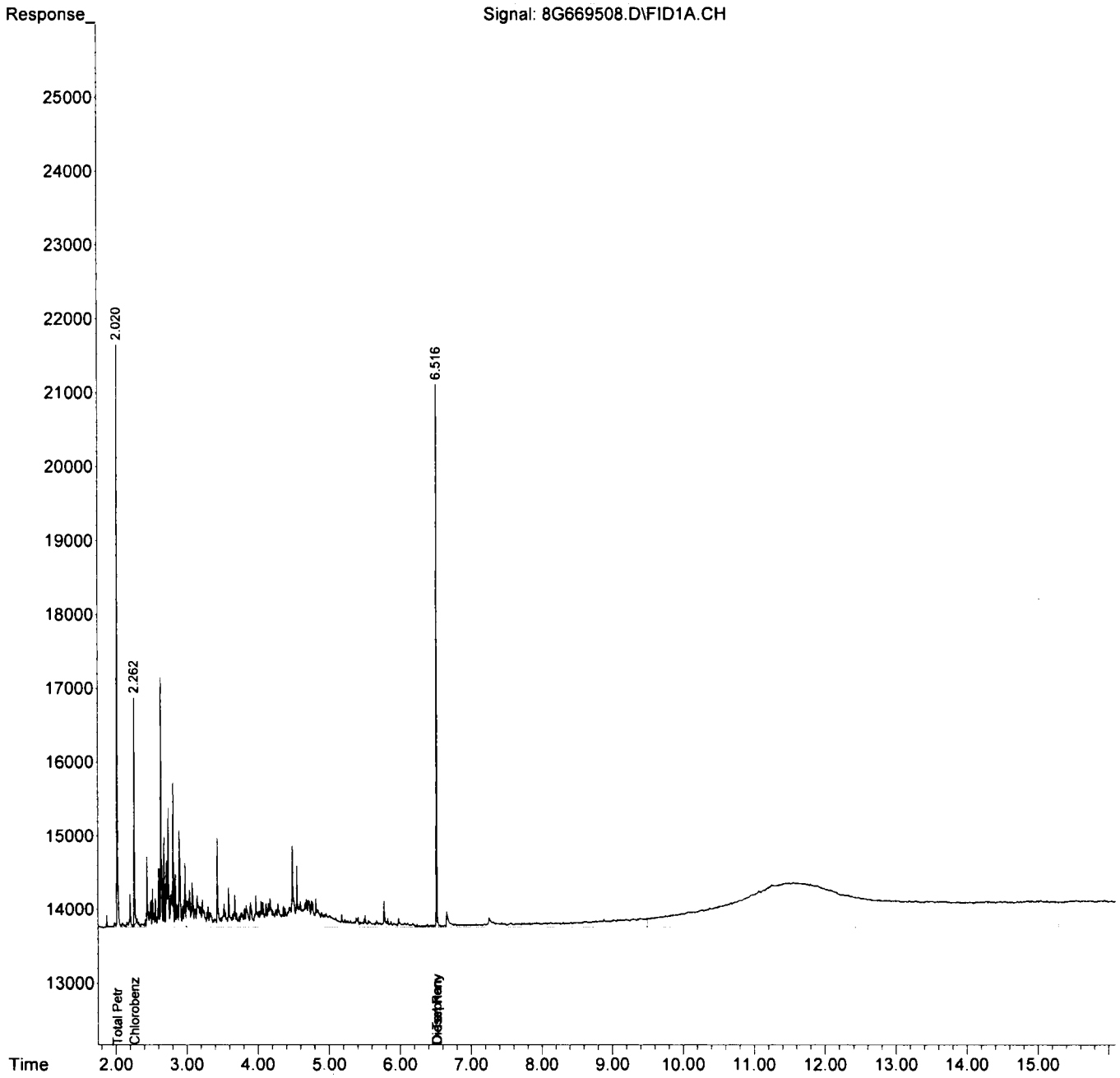
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669508.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 22:34:45
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-002
Misc : A.TPH
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 09:40:28 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-003
Client Id: TMW-21D
Data File: 8G669509.D
Analysis Date: 11/14/22 23:00
Date Rec/Extracted: 11/03/22-11/13/02
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 665574

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669509.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:00:45
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-003
Misc : A.TPH
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:23:06 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.262	14566	8.288		
23)	O-Terphenyl	6.523f	34239	11.981		
24)d	Diesel Range Organics(T	6.523f	240525	103.183		m
25)t	Total Petroleum Hydroca	2.020	1563932	686.278		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

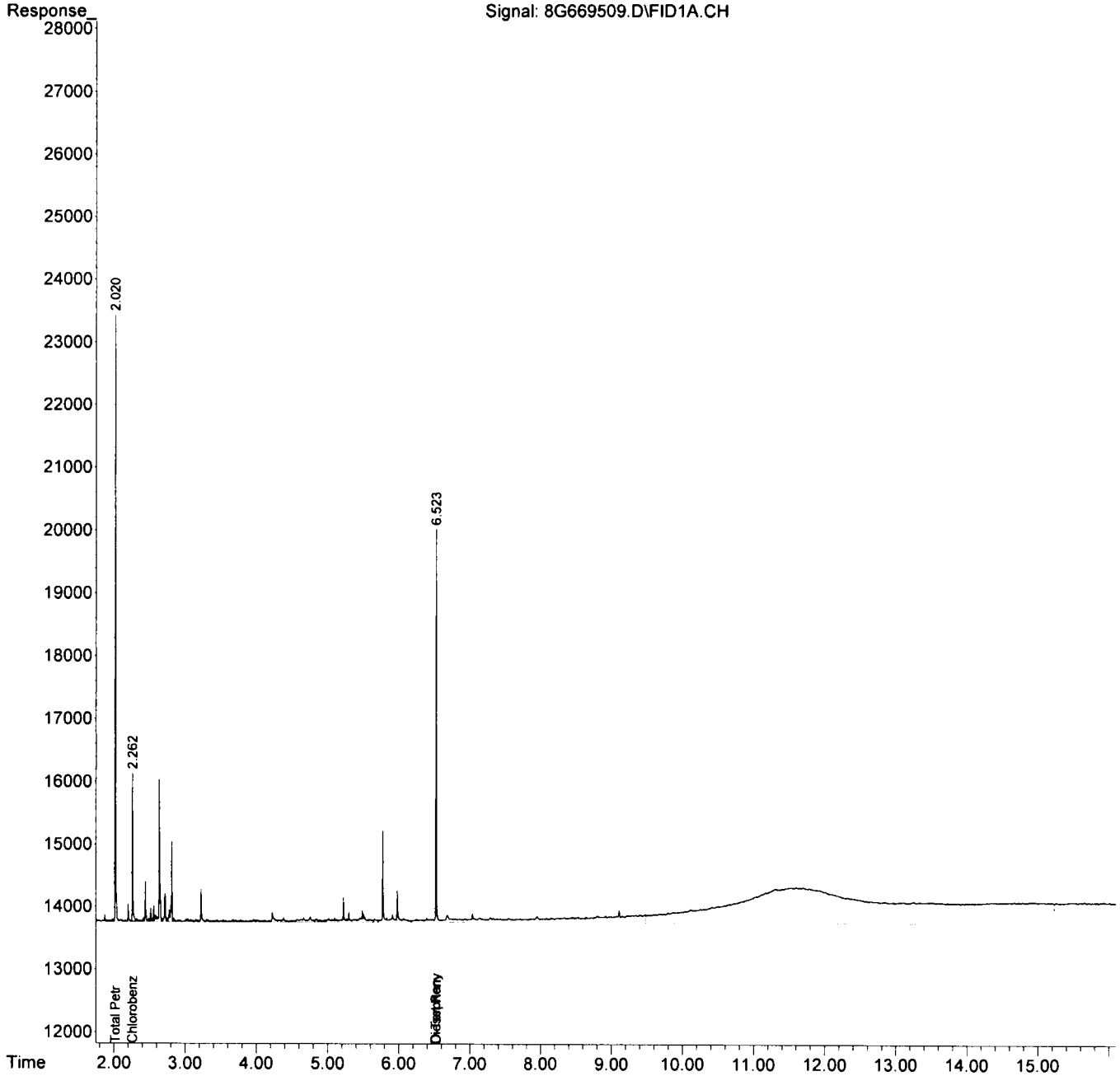
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669509.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:00:45
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-003
Misc : A.TPH
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:23:06 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-004
Client Id: TMW-21S
Data File: 8G669510.D
Analysis Date: 11/14/22 23:26
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 665493

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669510.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:26:53
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-004
Misc : A.TPH
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:13:03 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.262	19524	11.109		
23)	O-Terphenyl	6.517f	41444	14.502		
24)d	Diesel Range Organics(T	6.516f	224425	96.276		m
25)t	Total Petroleum Hydroca	6.516f	1511661	663.341		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

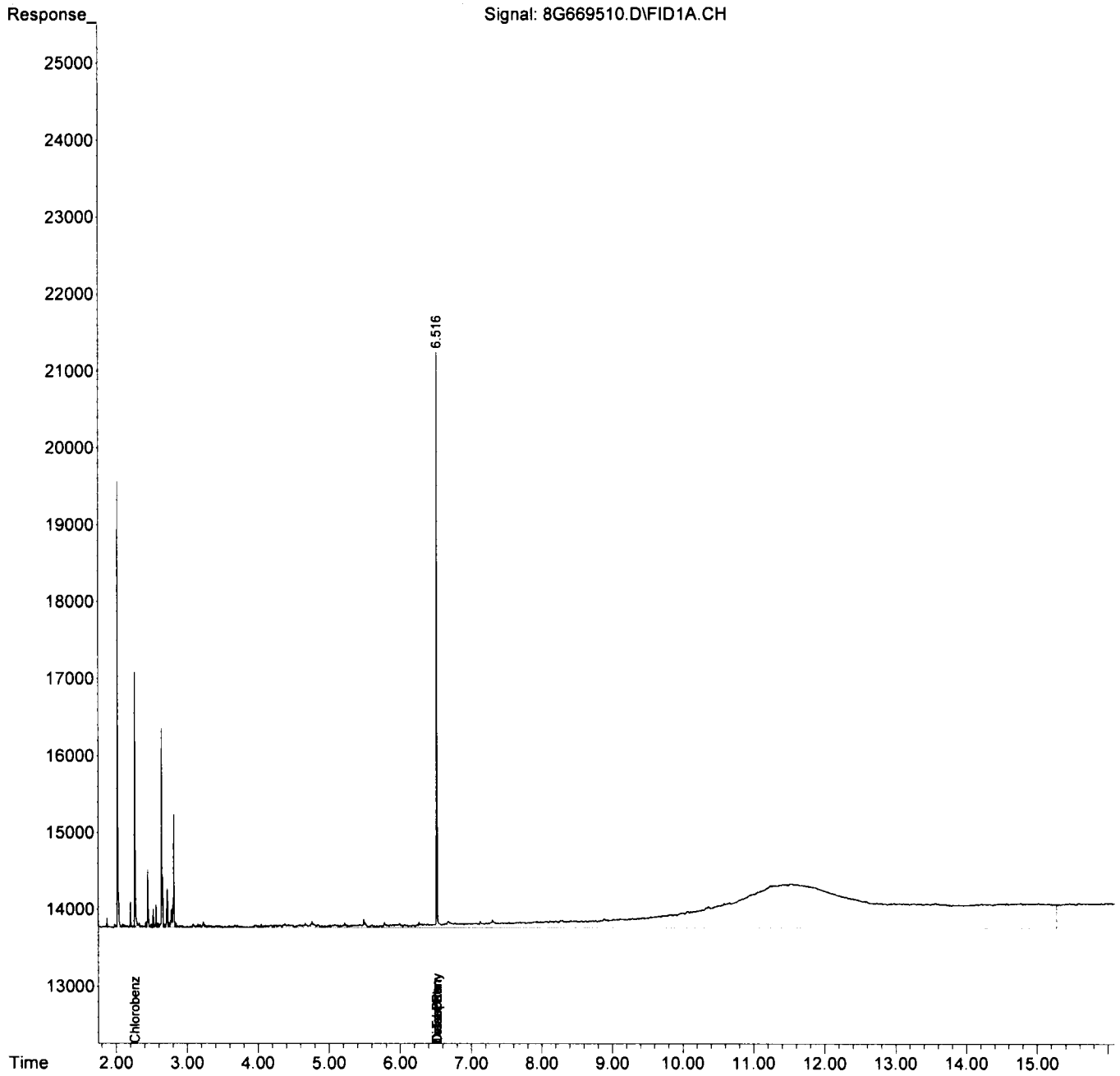
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669510.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:26:53
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-004
Misc : A.TPH
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:13:03 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-005
Client Id: TMW-23D
Data File: 8G669511.D
Analysis Date: 11/14/22 23:52
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**300**	**1100**				

Worksheet #: 665493

Total Target Concentration 1100

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669511.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:52:54
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-005
Misc : A.TPH
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:14:36 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.262	15163	8.627		
23)	O-Terphenyl	6.516f	41177	14.408		
24)d	Diesel Range Organics(T	3.848	2858576	1226.306		m
25)t	Total Petroleum Hydroca	3.848	4342596	1905.600		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

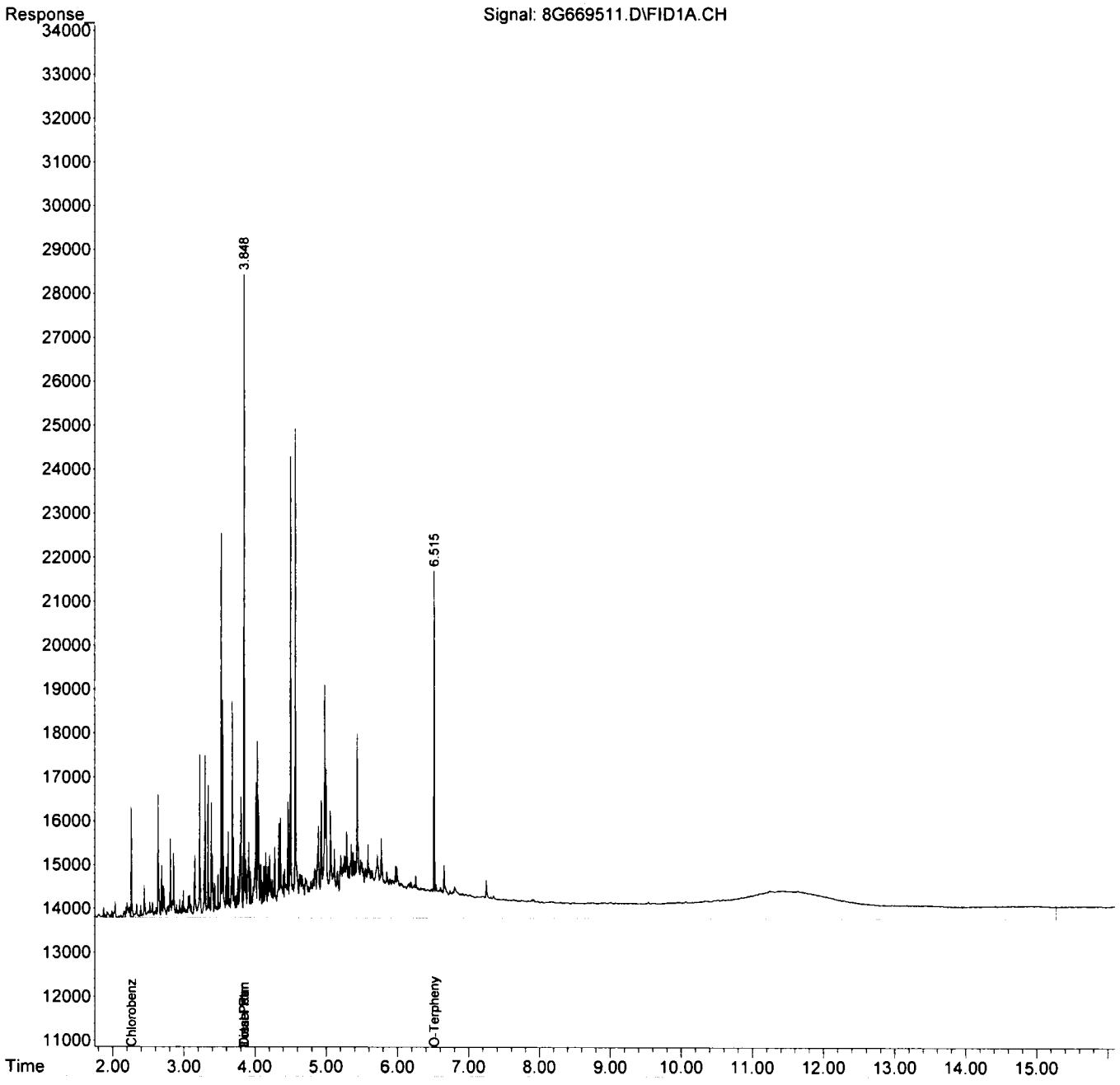


Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669511.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:52:54
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-005
Misc : A.TPH
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:14:36 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-006
Client Id: TMW-19S
Data File: 8G669512.D
Analysis Date: 11/15/22 00:18
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 665493

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669512.D
Signal(s) : FID1A.CH
Acq On : 15-Nov-22, 00:18:53
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-006
Misc : A.TPH
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:15:31 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	21625	12.304		
23)	O-Terphenyl	6.516f	51206	17.918		
24)d	Diesel Range Organics(T	6.515f	540727	231.967		m
25)t	Total Petroleum Hydroca	6.515f	1747732	766.933		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

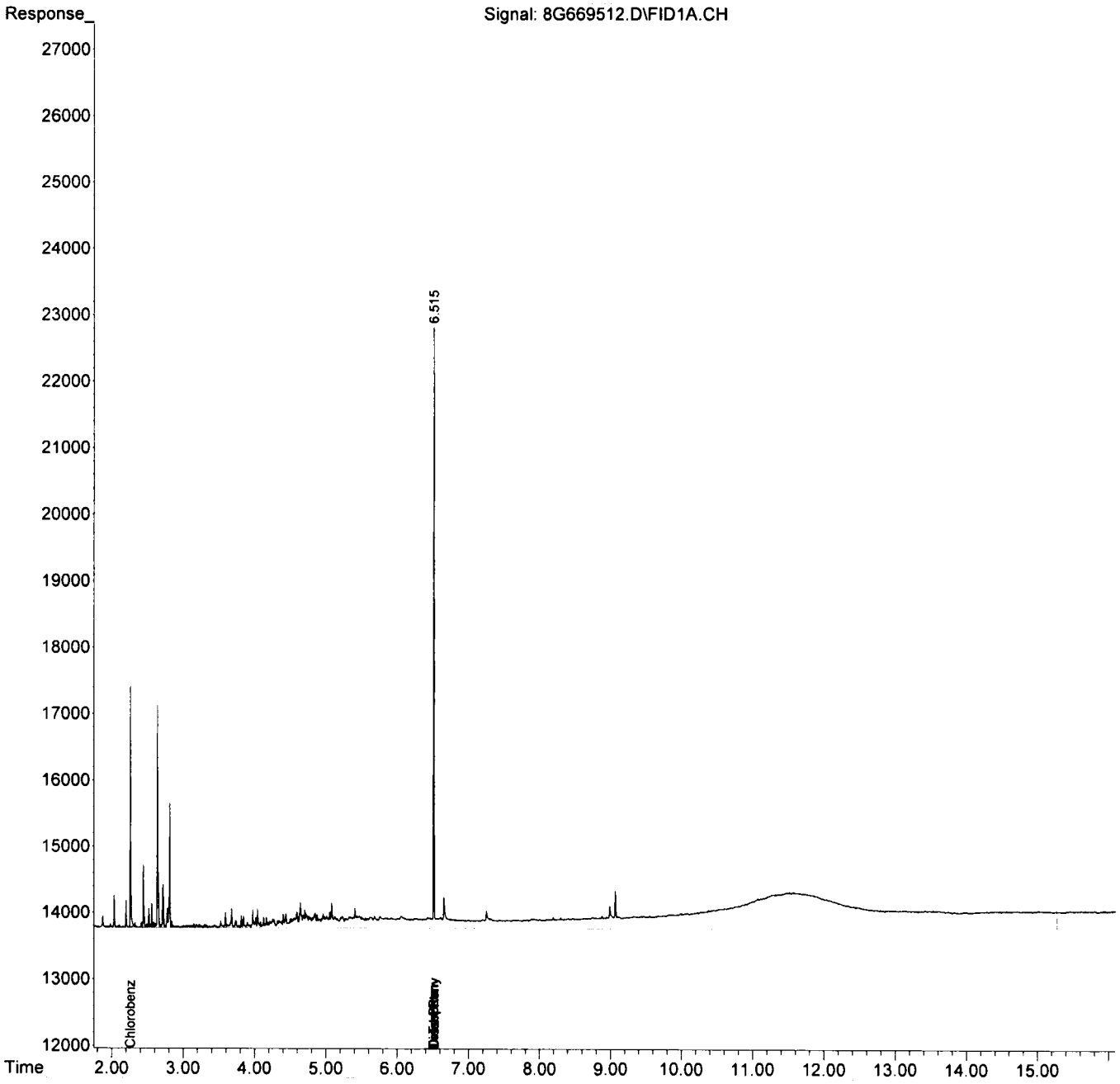
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669512.D
Signal(s) : FID1A.CH
Acq On : 15-Nov-22, 00:18:53
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-006
Misc : A.TPH
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:15:31 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: WMB103625
Client Id:
Data File: 8G669519.D
Analysis Date: 11/15/22 12:08
Date Rec/Extracted: NA-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 665573

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-15-22\
Data File : 8G669519.D
Signal(s) : FID1A.CH
Acq On : 15-Nov-22, 12:08:49
Operator : AH/ABM/RR/KT/JR
Sample : WMB103625
Misc : A.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 14:46:35 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	21964	12.497		
23)	O-Terphenyl	6.600	44301	15.501		
24)d	Diesel Range Organics(T	6.600f	161223	69.163		m
25)t	Total Petroleum Hydroca	6.600f	834079	366.007		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

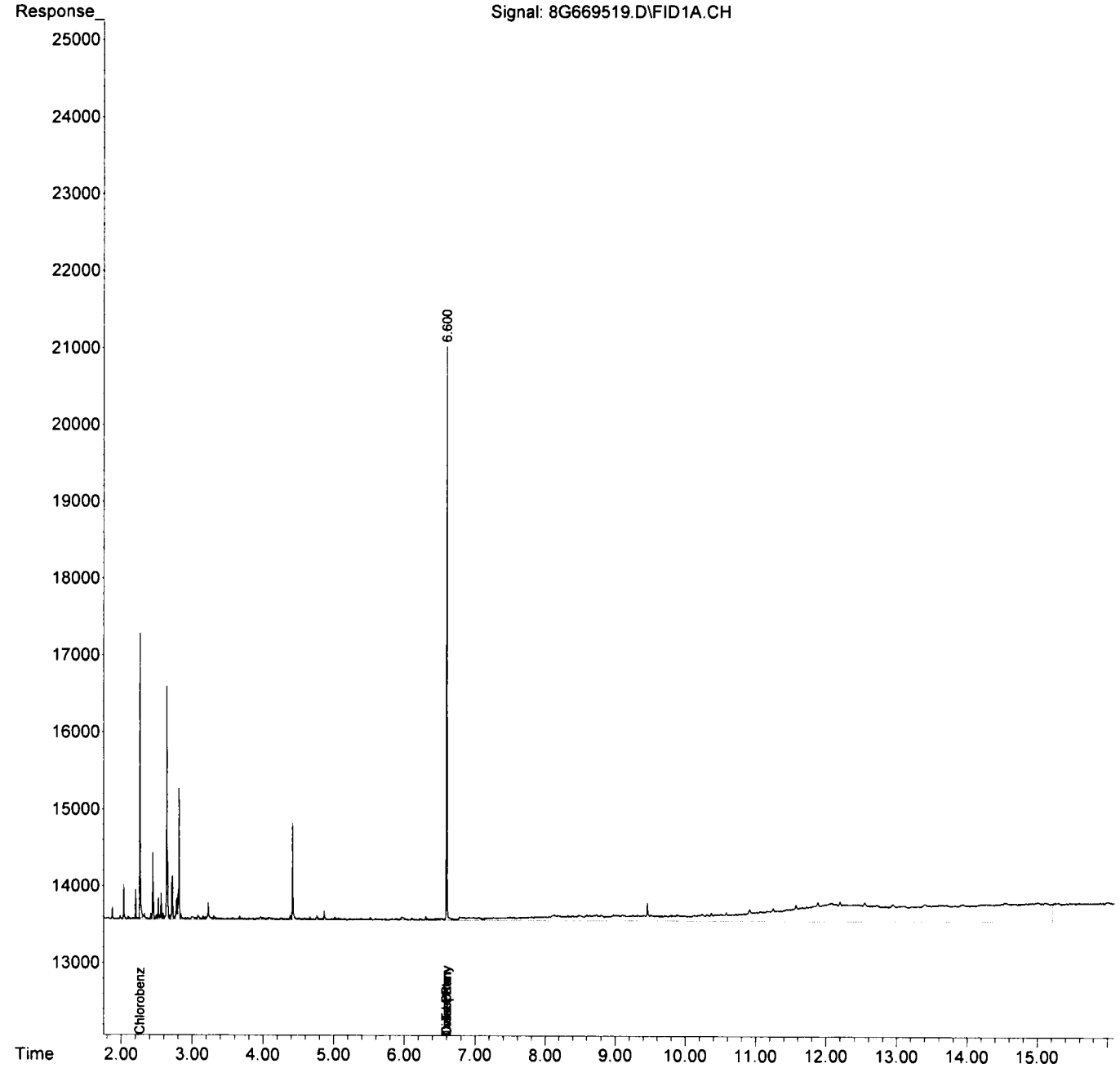
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-15-22\
Data File : 8G669519.D
Signal(s) : FID1A.CH
Acq On : 15-Nov-22, 12:08:49
Operator : AH/ABM/RR/KT/JR
Sample : WMB103625
Misc : A.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 14:46:35 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669504.D	WMB103625	A	11/14/22 20:50	1		57	72				
8G669506.D	AD34316-001(MS)	A	11/14/22 21:42	1		64	105				
8G669507.D	AD34316-001(MSD)	A	11/14/22 22:08	1		49	72				
8G669505.D	AD34316-001	A	11/14/22 21:16	1		53	78				
8G669508.D	AD34316-002	A	11/14/22 22:34	1		51	71				
8G669509.D	AD34316-003	A	11/14/22 23:00	1		41	60				
8G669510.D	AD34316-004	A	11/14/22 23:26	1		56	72				
8G669511.D	AD34316-005	A	11/14/22 23:52	1		43	72				
8G669512.D	AD34316-006	A	11/15/22 00:18	1		62	90				
8G669503.D	WMB103625(MS)	A	11/14/22 20:25	1		52	79				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	24-136
S2=O-Terphenyl	20	40-154

Form3
Recovery Data Laboratory Limits
QC Batch: WMB103625

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669503.D	WMB103625(MS)	11/14/2022 8:25:05 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669501.D	INST BLK	11/14/2022 7:33:13 PM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2227.75	0	3000	74	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB103625

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669506.D	AD34316-001(MS)	11/14/2022 9:42:45 PM
Non Spike(If applicable):	8G669505.D	AD34316-001	11/14/2022 9:16:42 PM
Inst Blank(If applicable):	8G669501.D	INST BLK	11/14/2022 7:33:13 PM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2980.83	231.64	3000	92	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669507.D	AD34316-001(MSD)	11/14/2022 10:08:54 P
Non Spike(If applicable):	8G669505.D	AD34316-001	11/14/2022 9:16:42 PM
Inst Blank(If applicable):	8G669501.D	INST BLK	11/14/2022 7:33:13 PM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2122.75	231.64	3000	63	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB103625

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669507.D	AD34316-001(MSD)	11/14/2022 10:08:54 P
Duplicate(If applicable):	8G669506.D	AD34316-001(MS)	11/14/2022 9:42:45 PM
Inst Blank(If applicable):	8G669501.D	INST BLK	11/14/2022 7:33:13 PM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	2122.75	2980.83	34	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB103625
Blank Data File: 8G669504.D
Matrix: Aqueous

Blank Analysis Date: 11/14/22 20:50
Blank Extraction Date: 11/13/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34316-001	8G669505.D	11/14/22 21:16
AD34316-002	8G669508.D	11/14/22 22:34
AD34316-003	8G669509.D	11/14/22 23:00
AD34316-004	8G669510.D	11/14/22 23:26
AD34316-005	8G669511.D	11/14/22 23:52
AD34316-006	8G669512.D	11/15/22 00:18
AD34316-001(MSD	8G669507.D	11/14/22 22:08
AD34316-001(MS)	8G669506.D	11/14/22 21:42
WMB103625(MS)	8G669503.D	11/14/22 20:25

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669483.D	INST BLK	11/14/22 08:52	Aqueous					
8G669484.D	CALTPH@20PPM	11/14/22 11:44	Aqueous	8G66948	6.5752	0		
8G669485.D	INST BLK	11/14/22 12:17	Aqueous	8G66948	0.0000	200		
8G669486.D	SMB103610	11/14/22 12:42	Soil	8G66948	6.5647	0.1598		
8G669487.D	SMB103610(MS)	11/14/22 13:08	Soil	8G66948	6.5792	0.0608		
8G669488.D	AD34422-001	11/14/22 13:34	Soil	8G66948	6.6007	0.3871		
8G669489.D	AD34422-001(MS)	11/14/22 13:59	Soil	8G66948	6.5638	0.1735		
8G669490.D	AD34422-001(MSD)	11/14/22 14:25	Soil	8G66948	6.5637	0.1751		
8G669491.D	AD34422-009	11/14/22 14:51	Soil	8G66948	6.5574	0.2711		
8G669492.D	AD34422-011	11/14/22 15:17	Soil	8G66948	6.5675	0.1172		
8G669493.D	AD34422-013	11/14/22 15:43	Soil	8G66948	6.6639	1.34		
8G669494.D	AD34422-015	11/14/22 16:08	Soil	8G66948	6.5549	0.3092		
8G669495.D	AD34372-003	11/14/22 16:34	Soil	8G66948	6.5659	0.1415		
8G669496.D	AD34396-001(3X)	11/14/22 17:00	Soil	8G66948	6.6665	1.379		
8G669497.D	AD34372-005(3X)	11/14/22 17:25	Soil	8G66948	6.6543	1.1958		
8G669498.D	AD34422-003(10X)	11/14/22 17:51	Soil	8G66948	0.0000	200		
8G669499.D	AD34422-005(10X)	11/14/22 18:17	Soil	8G66948	0.0000	200		
8G669500.D	CALTPH@20PPM	11/14/22 19:07	Aqueous	8G66948	6.5379	0.5689		
8G669501.D	INST BLK	11/14/22 19:33	Aqueous	8G66950	0.0000	200		
8G669502.D	AD34422-007(10X)	11/14/22 19:59	Soil	8G66950	0.0000	200		
8G669503.D	WMB103625(MS)	11/14/22 20:25	Aqueous	8G66950	6.5285	0.1439		
8G669504.D	WMB103625	11/14/22 20:50	Aqueous	8G66950	6.5216	0.2496		
8G669505.D	AD34316-001	11/14/22 21:16	Aqueous	8G66950	6.5206	0.265		
8G669506.D	AD34316-001(MS)	11/14/22 21:42	Aqueous	8G66950	6.5244	0.2067		
8G669507.D	AD34316-001(MSD)	11/14/22 22:08	Aqueous	8G66950	6.5218	0.2466		
8G669508.D	AD34316-002	11/14/22 22:34	Aqueous	8G66950	6.5165	0.3279		
8G669509.D	AD34316-003	11/14/22 23:00	Aqueous	8G66950	6.5230	0.2282		
8G669510.D	AD34316-004	11/14/22 23:26	Aqueous	8G66950	6.5168	0.3233		
8G669511.D	AD34316-005	11/14/22 23:52	Aqueous	8G66950	6.5158	0.3386		
8G669512.D	AD34316-006	11/15/22 00:18	Aqueous	8G66950	6.5159	0.3371		
8G669513.D	TEST	11/15/22 00:44	Aqueous	8G66950	0.0000	200		
8G669514.D	CALTPH@20PPM	11/15/22 01:10	Aqueous	8G66950	6.5180	0.3048		
8G669515.D	CALTPH@20PPM	11/15/22 01:36	Aqueous	8G66950	6.5101	0.4261		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2110304 0120

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669500.D			8G669514.D										
Method:				8015			8015										
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM										
Calibration Date/Time				11/14/22 19:07			11/15/22 01:10										
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	20.18	20	0.9	18.98	20	5.1									
C9	20	1	0	19.59	20	2.0	18.13	20	9.4									
C10	20	1	0	19.68	20	1.6	17.73	20	11.4									
C12	20	1	0	20	20	0.0	17.43	20	12.9									
C14	20	1	0	20.29	20	1.5	17.25	20	13.8									
C16	20	1	0	20.63	20	3.1	17.48	20	12.6									
C17	20	1	0	21.72	20	8.6	15.54	20	22.3*									
Pristane	20	1	0	20.68	20	3.4	17.97	20	10.2									
C18	20	1	0	20.67	20	3.4	17.15	20	14.3									
Phytane	20	1	0	21.21	20	6.0	18.21	20	9.0									
C20	20	1	0	21.33	20	6.6	17.48	20	12.6									
C22	20	1	0	21.74	20	8.7	17.14	20	14.3									
C24	20	1	0	22.11	20	10.6	17.19	20	14.1									
C26	20	1	0	22.55	20	12.8	17.01	20	15.0									
C28	20	1	0	22.75	20	13.8	17.49	20	12.6									
C30	20	1	0	23.06	20	15.3	17.28	20	13.6									
C32	20	1	0	22.38	20	11.9	16.74	20	16.3									
C34	20	1	0	22.78	20	13.9	16.94	20	15.3									
C36	20	1	0	22.36	20	11.8	16.82	20	15.9									
C40	20	1	0	20.74	20	3.7	15.75	20	21.3*									
C44	20	1	0	22.45	20	12.3	16.88	20	15.6									
Chlorobenzene	20	1	0	20.01	20	0.1	18.41	20	8.0									
O-Terphenyl	20	1	0	21.42	20	7.1	17.52	20	12.4									
Average Difference	20	1	0			6.9			13.4									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.54	(6.50 - 6.58)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-001
Client Id: TMW-22S
Data File: 8G669505.D
Analysis Date: 11/14/22 21:16
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 665568

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669505.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 21:16:42
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-001
Misc : A.TPH
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 09:35:46 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	18576	10.569		
23)	O-Terphenyl	6.521f	44523	15.579		
24)d	Diesel Range Organics(T	6.520f	644789	276.609		m
25)t	Total Petroleum Hydroca	6.520f	2465777	1082.023		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

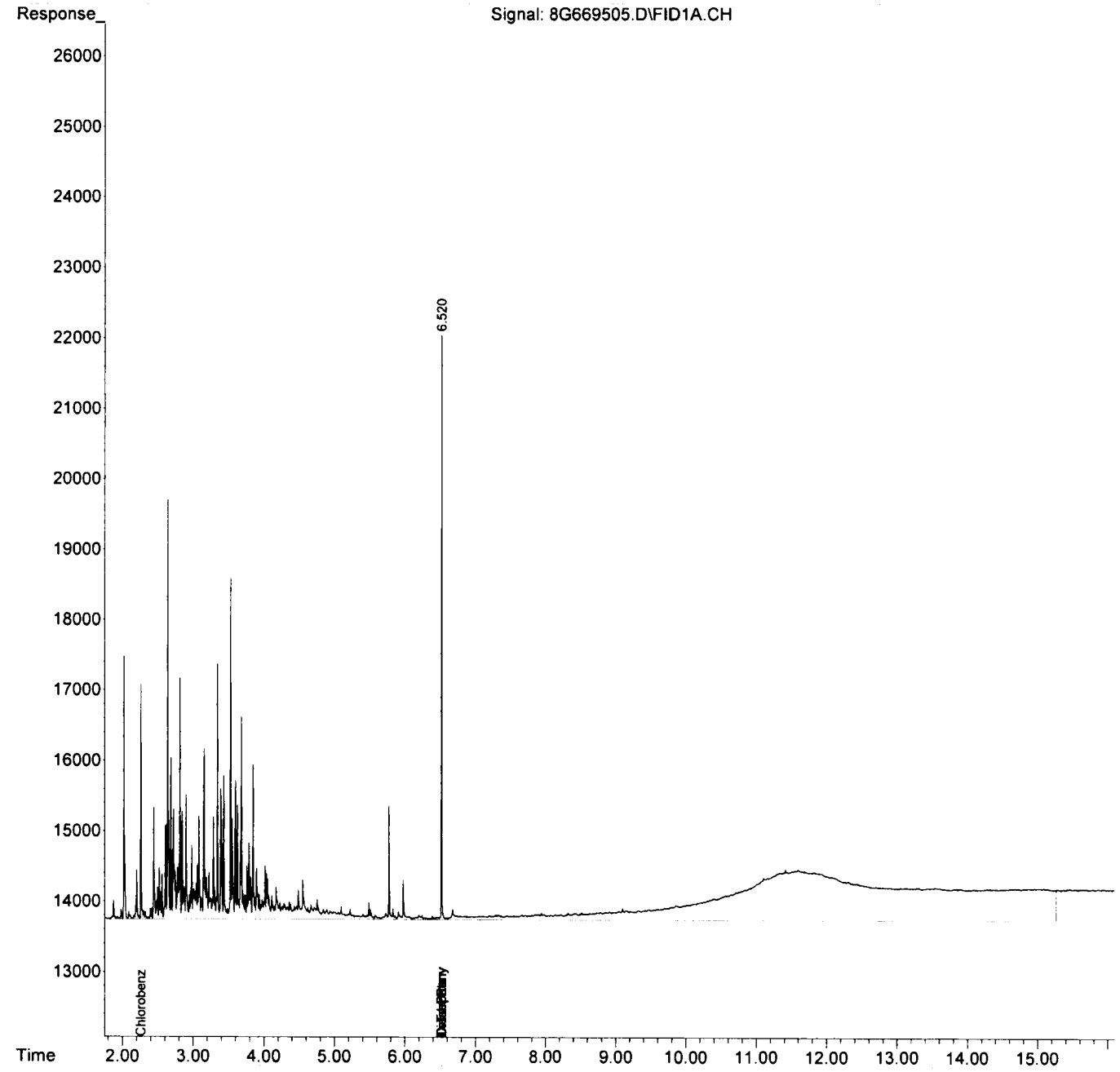
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669505.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 21:16:42
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-001
Misc : A.TPH
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 09:35:46 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-002
Client Id: TMW-22D
Data File: 8G669508.D
Analysis Date: 11/14/22 22:34
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 665568

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669508.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 22:34:45
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-002
Misc : A.TPH
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 09:40:28 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.262	17964	10.221		
23)	O-Terphenyl	6.516f	40627	14.216		
24)d	Diesel Range Organics(T	6.516f	451634	193.747		m
25)t	Total Petroleum Hydroca	2.020	1928876	846.422		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

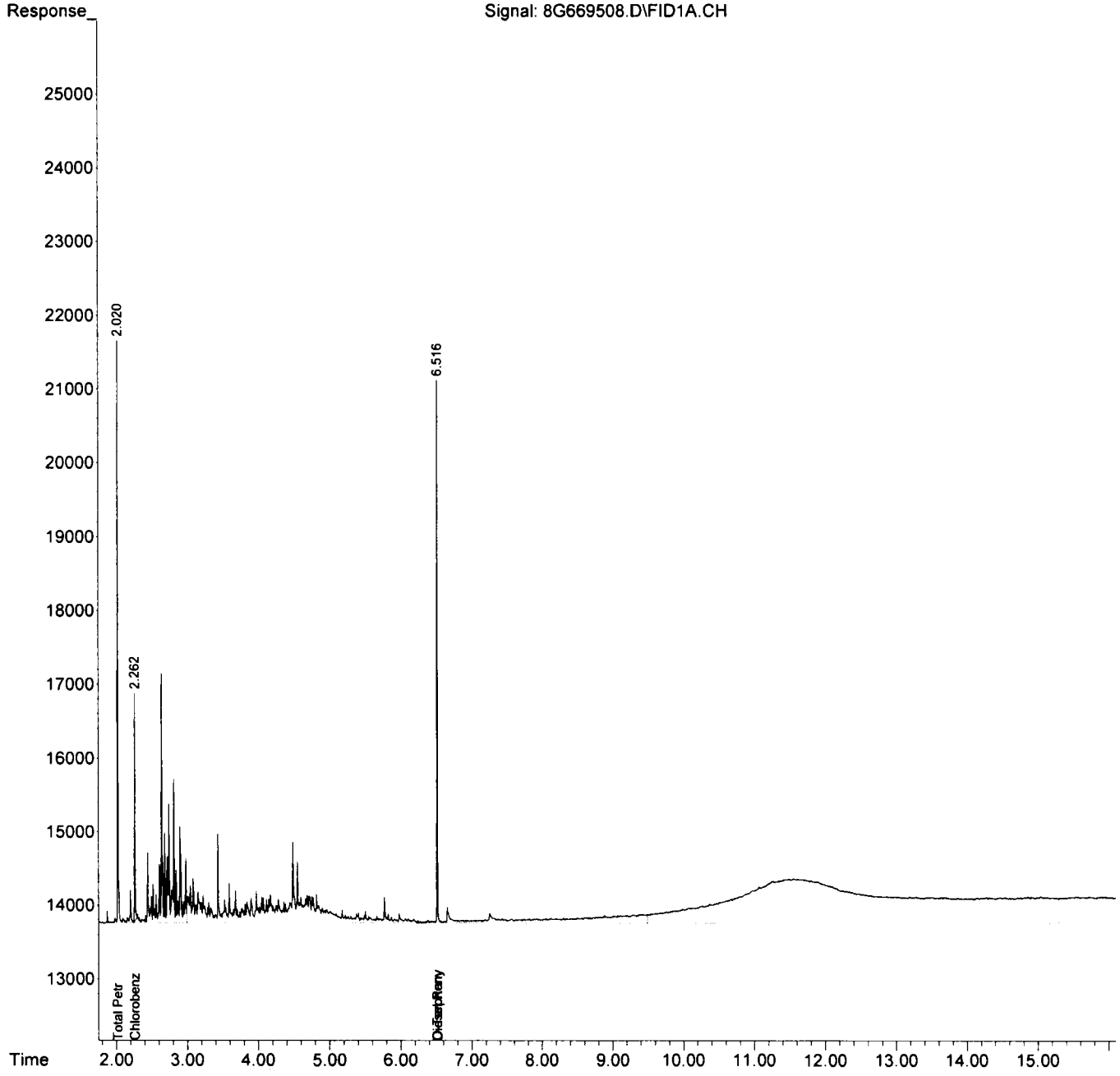
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669508.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 22:34:45
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-002
Misc : A.TPH
ALS Vial : 23 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 09:40:28 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-003
Client Id: TMW-21D
Data File: 8G669509.D
Analysis Date: 11/14/22 23:00
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 665568

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669509.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:00:45
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-003
Misc : A.TPH
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:23:06 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.262	14566	8.288		
23)	O-Terphenyl	6.523f	34239	11.981		
24)d	Diesel Range Organics(T	6.523f	240525	103.183		m
25)t	Total Petroleum Hydroca	2.020	1563932	686.278		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

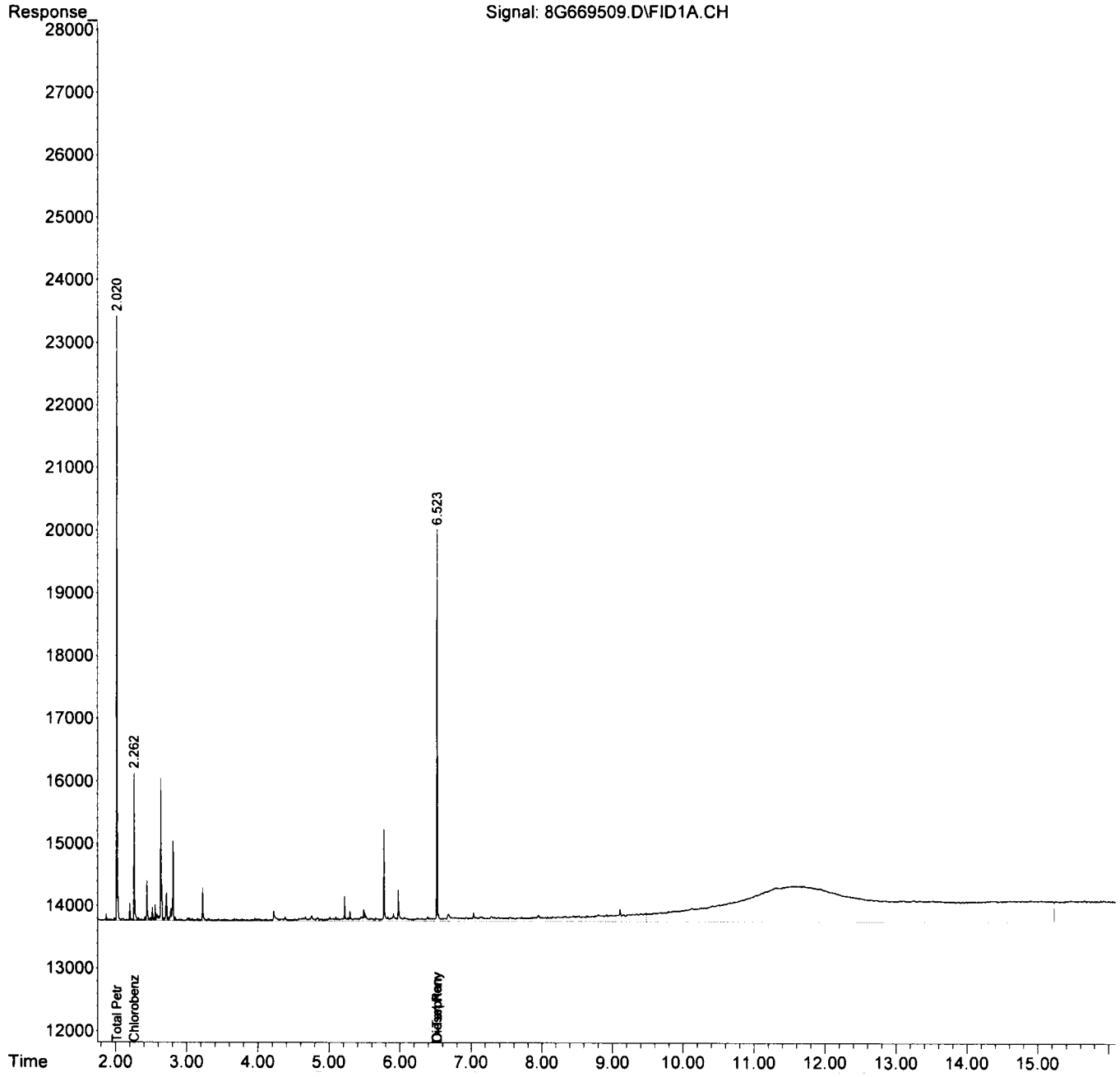


Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669509.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:00:45
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-003
Misc : A.TPH
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:23:06 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-004
Client Id: TMW-21S
Data File: 8G669510.D
Analysis Date: 11/14/22 23:26
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 665568

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669510.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:26:53
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-004
Misc : A.TPH
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:13:03 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.262	19524	11.109		
23)	O-Terphenyl	6.517f	41444	14.502		
24)d	Diesel Range Organics(T	6.516f	224425	96.276		m
25)t	Total Petroleum Hydroca	6.516f	1511661	663.341		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

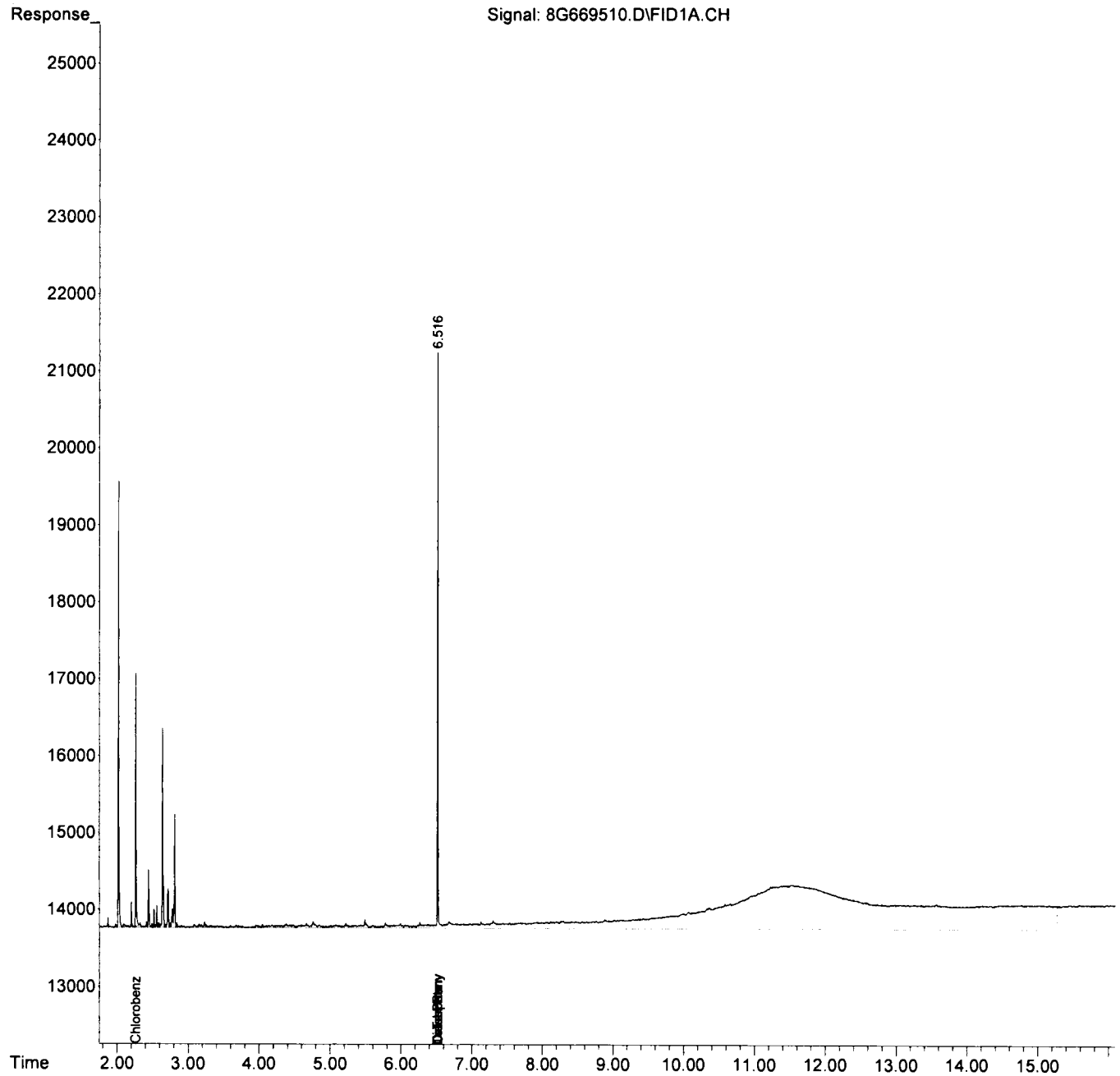
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669510.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:26:53
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-004
Misc : A.TPH
ALS Vial : 25 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:13:03 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-005
Client Id: TMW-23D
Data File: 8G669511.D
Analysis Date: 11/14/22 23:52
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	**Diesel Range Organics**	**300**	**1200**				

Worksheet #: 665568

Total Target Concentration 1200

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669511.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:52:54
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-005
Misc : A.TPH
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:14:36 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.262	15163	8.627		
23)	O-Terphenyl	6.516f	41177	14.408		
24)d	Diesel Range Organics(T	3.848	2858576	1226.306		m
25)t	Total Petroleum Hydroca	3.848	4342596	1905.600		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

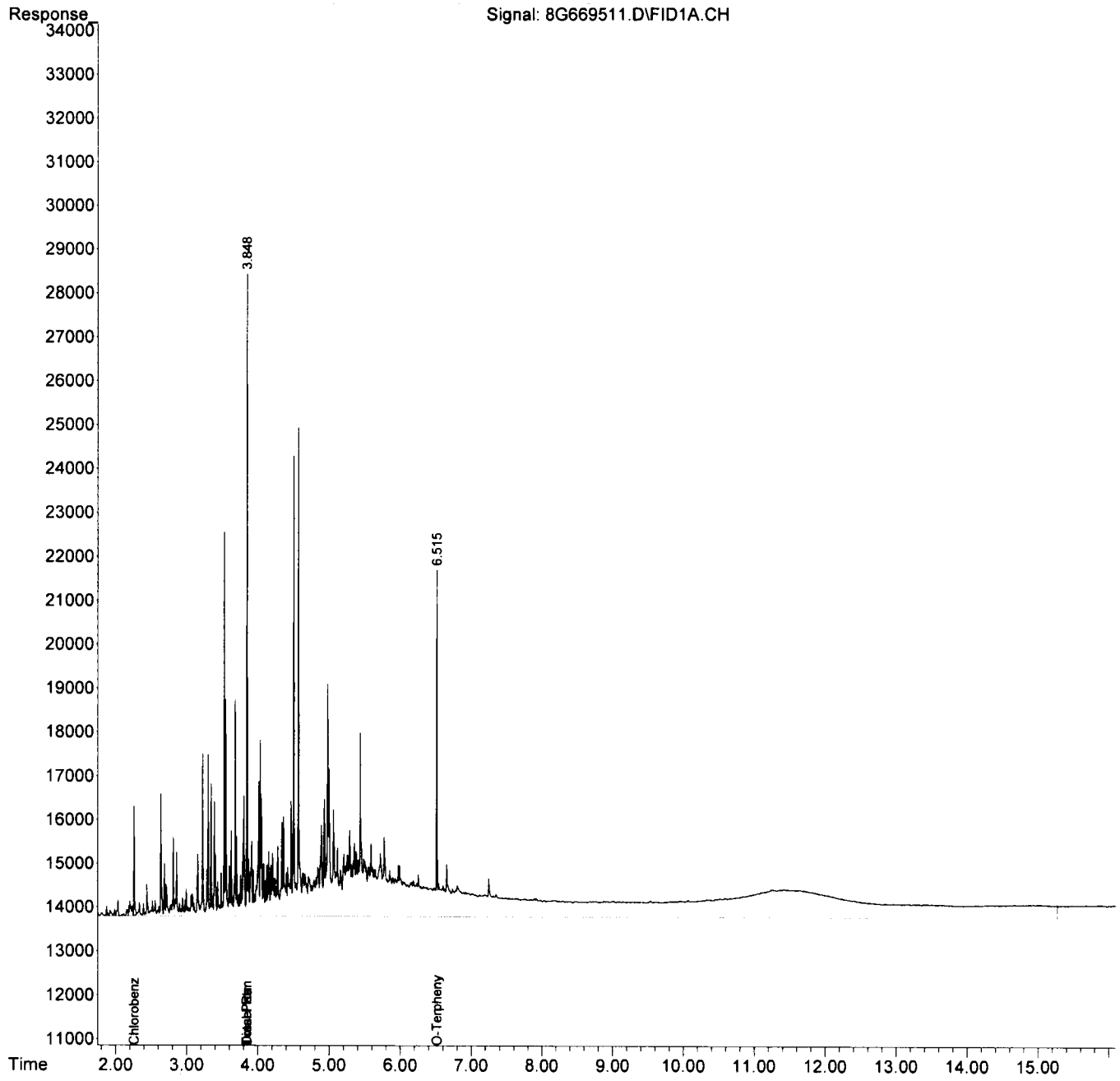
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669511.D
Signal(s) : FID1A.CH
Acq On : 14-Nov-22, 23:52:54
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-005
Misc : A.TPH
ALS Vial : 26 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:14:36 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34316-006
Client Id: TMW-19S
Data File: 8G669512.D
Analysis Date: 11/15/22 00:18
Date Rec/Extracted: 11/03/22-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 665568

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669512.D
Signal(s) : FID1A.CH
Acq On : 15-Nov-22, 00:18:53
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-006
Misc : A.TPH
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:15:31 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	21625	12.304		
23)	O-Terphenyl	6.516f	51206	17.918		
24)d	Diesel Range Organics(T	6.515f	540727	231.967		m
25)t	Total Petroleum Hydroca	6.515f	1747732	766.933		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

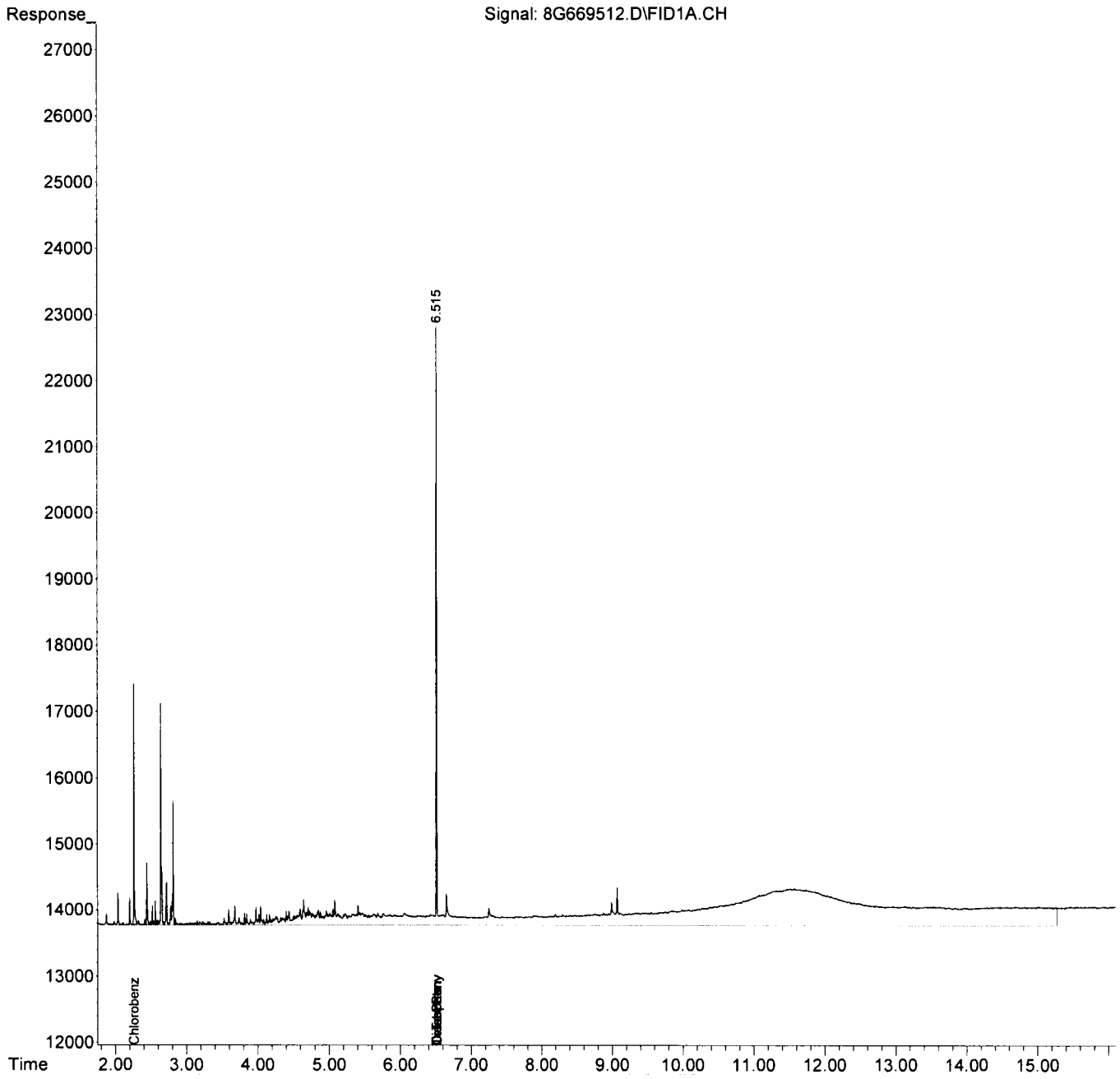


Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-14-22\
Data File : 8G669512.D
Signal(s) : FID1A.CH
Acq On : 15-Nov-22, 00:18:53
Operator : AH/ABM/RR/KT/JR
Sample : AD34316-006
Misc : A.TPH
ALS Vial : 27 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:15:31 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: WMB103625
Client Id:
Data File: 8G669519.D
Analysis Date: 11/15/22 12:08
Date Rec/Extracted: NA-11/13/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 665568

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-15-22\
Data File : 8G669519.D
Signal(s) : FID1A.CH
Acq On : 15-Nov-22, 12:08:49
Operator : AH/ABM/RR/KT/JR
Sample : WMB103625
Misc : A.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 14:46:35 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.263	21964	12.497		
23)	O-Terphenyl	6.600	44301	15.501		
24)d	Diesel Range Organics(T	6.600f	161223	69.163		m
25)t	Total Petroleum Hydroca	6.600f	834079	366.007		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

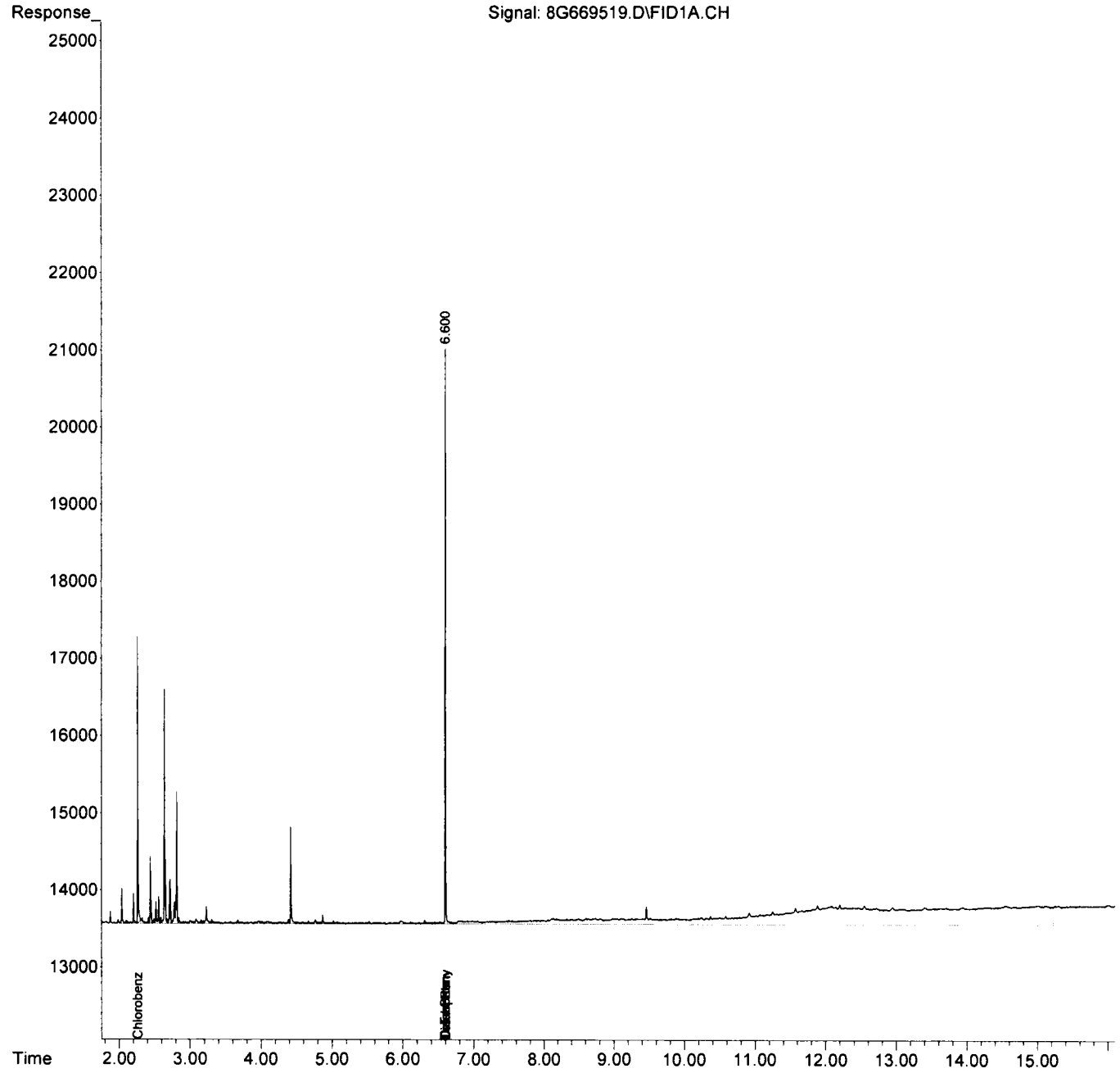
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-15-22\
Data File : 8G669519.D
Signal(s) : FID1A.CH
Acq On : 15-Nov-22, 12:08:49
Operator : AH/ABM/RR/KT/JR
Sample : WMB103625
Misc : A.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 14:46:35 2022
Quant Method : G:\GCDATA\2022\GC_8\METHODQT\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669506.D	AD34316-001(MS)	A	11/14/22 21:42	1		64	105				
8G669507.D	AD34316-001(MSD)	A	11/14/22 22:08	1		49	72				
8G669519.D	WMB103625	A	11/15/22 12:08	1		62	78				
8G669505.D	AD34316-001	A	11/14/22 21:16	1		53	78				
8G669508.D	AD34316-002	A	11/14/22 22:34	1		51	71				
8G669509.D	AD34316-003	A	11/14/22 23:00	1		41	60				
8G669510.D	AD34316-004	A	11/14/22 23:26	1		56	72				
8G669511.D	AD34316-005	A	11/14/22 23:52	1		43	72				
8G669512.D	AD34316-006	A	11/15/22 00:18	1		62	90				
8G669503.D	WMB103625(MS)	A	11/14/22 20:25	1		52	79				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	24-136
S2=O-Terphenyl	20	40-154

Form3
Recovery Data Laboratory Limits
QC Batch: WMB103625

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669503.D	WMB103625(MS)	11/14/2022 8:25:05 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669501.D	INST BLK	11/14/2022 7:33:13 PM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	**1**	**2227.75**	**0**	**3000**	**74**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB103625

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669506.D	AD34316-001(MS)	11/14/2022 9:42:45 PM
Non Spike(If applicable):	8G669505.D	AD34316-001	11/14/2022 9:16:42 PM
Inst Blank(If applicable):	8G669501.D	INST BLK	11/14/2022 7:33:13 PM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2980.83	231.64	3000	92	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669507.D	AD34316-001(MSD)	11/14/2022 10:08:54 P
Non Spike(If applicable):	8G669505.D	AD34316-001	11/14/2022 9:16:42 PM
Inst Blank(If applicable):	8G669501.D	INST BLK	11/14/2022 7:33:13 PM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2122.75	231.64	3000	63	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB103625

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669507.D	AD34316-001(MSD)	11/14/2022 10:08:54 P
Duplicate(If applicable):	8G669506.D	AD34316-001(MS)	11/14/2022 9:42:45 PM
Inst Blank(If applicable):	8G669501.D	INST BLK	11/14/2022 7:33:13 PM

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	**1**	**2122.75**	**2980.83**	**34**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated
Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB103625
Blank Data File: 8G669519.D
Matrix: Aqueous

Blank Analysis Date: 11/15/22 12:08
Blank Extraction Date: 11/13/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34316-001	8G669505.D	11/14/22 21:16
AD34316-002	8G669508.D	11/14/22 22:34
AD34316-003	8G669509.D	11/14/22 23:00
AD34316-004	8G669510.D	11/14/22 23:26
AD34316-005	8G669511.D	11/14/22 23:52
AD34316-006	8G669512.D	11/15/22 00:18
AD34316-001(MSD	8G669507.D	11/14/22 22:08
AD34316-001(MS)	8G669506.D	11/14/22 21:42
WMB103625(MS)	8G669503.D	11/14/22 20:25

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669483.D	INST BLK	11/14/22 08:52	Aqueous					
8G669484.D	CALTPH@20PPM	11/14/22 11:44	Aqueous	8G66948	6.5752	0		
8G669485.D	INST BLK	11/14/22 12:17	Aqueous	8G66948	0.0000	200		
8G669486.D	SMB103610	11/14/22 12:42	Soil	8G66948	6.5647	0.1598		
8G669487.D	SMB103610(MS)	11/14/22 13:08	Soil	8G66948	6.5792	0.0608		
8G669488.D	AD34422-001	11/14/22 13:34	Soil	8G66948	6.6007	0.3871		
8G669489.D	AD34422-001(MS)	11/14/22 13:59	Soil	8G66948	6.5638	0.1735		
8G669490.D	AD34422-001(MSD)	11/14/22 14:25	Soil	8G66948	6.5637	0.1751		
8G669491.D	AD34422-009	11/14/22 14:51	Soil	8G66948	6.5574	0.2711		
8G669492.D	AD34422-011	11/14/22 15:17	Soil	8G66948	6.5675	0.1172		
8G669493.D	AD34422-013	11/14/22 15:43	Soil	8G66948	6.6639	1.34		
8G669494.D	AD34422-015	11/14/22 16:08	Soil	8G66948	6.5549	0.3092		
8G669495.D	AD34372-003	11/14/22 16:34	Soil	8G66948	6.5659	0.1415		
8G669496.D	AD34396-001(3X)	11/14/22 17:00	Soil	8G66948	6.6665	1.379		
8G669497.D	AD34372-005(3X)	11/14/22 17:25	Soil	8G66948	6.6543	1.1958		
8G669498.D	AD34422-003(10X)	11/14/22 17:51	Soil	8G66948	0.0000	200		
8G669499.D	AD34422-005(10X)	11/14/22 18:17	Soil	8G66948	0.0000	200		
8G669500.D	CALTPH@20PPM	11/14/22 19:07	Aqueous	8G66948	6.5379	0.5689		
8G669501.D	INST BLK	11/14/22 19:33	Aqueous	8G66950	0.0000	200		
8G669502.D	AD34422-007(10X)	11/14/22 19:59	Soil	8G66950	0.0000	200		
8G669503.D	WMB103625(MS)	11/14/22 20:25	Aqueous	8G66950	6.5285	0.1439		
8G669504.D	WMB103625	11/14/22 20:50	Aqueous	8G66950	6.5216	0.2496		
8G669505.D	AD34316-001	11/14/22 21:16	Aqueous	8G66950	6.5206	0.265		
8G669506.D	AD34316-001(MS)	11/14/22 21:42	Aqueous	8G66950	6.5244	0.2067		
8G669507.D	AD34316-001(MSD)	11/14/22 22:08	Aqueous	8G66950	6.5218	0.2466		
8G669508.D	AD34316-002	11/14/22 22:34	Aqueous	8G66950	6.5165	0.3279		
8G669509.D	AD34316-003	11/14/22 23:00	Aqueous	8G66950	6.5230	0.2282		
8G669510.D	AD34316-004	11/14/22 23:26	Aqueous	8G66950	6.5168	0.3233		
8G669511.D	AD34316-005	11/14/22 23:52	Aqueous	8G66950	6.5158	0.3386		
8G669512.D	AD34316-006	11/15/22 00:18	Aqueous	8G66950	6.5159	0.3371		
8G669513.D	TEST	11/15/22 00:44	Aqueous	8G66950	0.0000	200		
8G669514.D	CALTPH@20PPM	11/15/22 01:10	Aqueous	8G66950	6.5180	0.3048		
8G669515.D	CALTPH@20PPM	11/15/22 01:36	Aqueous	8G66950	6.5101	0.4261		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669516.D	INST BLK	11/15/22 10:35	Aqueous					
8G669517.D	CALTPH@20PPM	11/15/22 11:01	Aqueous	8G66951	6.5333	0		
8G669518.D	INST BLK	11/15/22 11:27	Aqueous	8G66951	0.0000	200		
8G669519.D	WMB103625	11/15/22 12:08	Aqueous	8G66951	6.6001	1.0173		
8G669520.D	SMB103629	11/15/22 12:34	Soil	8G66951	6.5313	0.0306		
8G669521.D	AD34014-005	11/15/22 12:59	Aqueous	8G66951	6.5305	0.0429		
8G669522.D	AD34422-001(R)	11/15/22 13:25	Soil	8G66951	6.5327	0.0092		
8G669523.D	CAL TPH@20PPM	11/15/22 13:51	Soil	8G66951	6.5363	0.0459		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2110304 0153

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte..>0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669500.D			8G669514.D			8G669517.D			8G669523.D						
Method:				8015			8015			8015			8015						
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM			CALTPH@20PPM			CAL TPH@20PPM						
Calibration Date/Time				11/14/22 19:07			11/15/22 01:10			11/15/22 11:01			11/15/22 13:51						
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	
C8	20	1	0	20.18	20	0.9	18.98	20	5.1	22.1	20	10.5	22.52	20	12.6				
C9	20	1	0	19.59	20	2.0	18.13	20	9.4	21.24	20	6.2	21.3	20	6.5				
C10	20	1	0	19.68	20	1.6	17.73	20	11.4	20.93	20	4.7	20.59	20	3.0				
C12	20	1	0	20	20	0.0	17.43	20	12.9	20.35	20	1.8	20.7	20	3.5				
C14	20	1	0	20.29	20	1.5	17.25	20	13.8	21.04	20	5.2	20.87	20	4.4				
C16	20	1	0	20.63	20	3.1	17.48	20	12.6	20.76	20	3.8	21.38	20	6.9				
C17	20	1	0	21.72	20	8.6	15.54	20	22.3*	21.02	20	5.1	23.98	20	19.9				
Pristane	20	1	0	20.68	20	3.4	17.97	20	10.2	21.19	20	6.0	20.98	20	4.9				
C18	20	1	0	20.67	20	3.4	17.15	20	14.3	20.76	20	3.8	21.06	20	5.3				
Phytane	20	1	0	21.21	20	6.0	18.21	20	9.0	21.27	20	6.4	22.34	20	11.7				
C20	20	1	0	21.33	20	6.6	17.48	20	12.6	20.97	20	4.8	21.69	20	8.5				
C22	20	1	0	21.74	20	8.7	17.14	20	14.3	21.48	20	7.4	21.97	20	9.8				
C24	20	1	0	22.11	20	10.6	17.19	20	14.1	22.09	20	10.5	22.57	20	12.9				
C26	20	1	0	22.55	20	12.8	17.01	20	15.0	22.24	20	11.2	22.9	20	14.5				
C28	20	1	0	22.75	20	13.8	17.49	20	12.6	22.73	20	13.7	23.33	20	16.7				
C30	20	1	0	23.06	20	15.3	17.28	20	13.6	23.74	20	18.7	23.84	20	19.2				
C32	20	1	0	22.38	20	11.9	16.74	20	16.3	22.77	20	13.9	23.39	20	17.0				
C34	20	1	0	22.78	20	13.9	16.94	20	15.3	21.64	20	8.2	22.42	20	12.1				
C36	20	1	0	22.36	20	11.8	16.82	20	15.9	19.05	20	4.8	20.27	20	1.4				
C40	20	1	0	20.74	20	3.7	15.75	20	21.3*	14.05	20	29.8*	15.36	20	23.2*				
C44	20	1	0	22.45	20	12.3	16.88	20	15.6	12.82	20	35.9*	15.12	20	24.4*				
Chlorobenzene	20	1	0	20.01	20	0.1	18.41	20	8.0	21.35	20	6.8	21.23	20	6.1				
O-Terphenyl	20	1	0	21.42	20	7.1	17.52	20	12.4	20.82	20	4.1	21.57	20	7.8				
Average Difference	20	1	0			6.9			13.4			9.7			11.0				

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:											
Calibration Name:											
Calibration Date/Time											
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.54	(6.50 - 6.58)	6.53	(6.49 - 6.57)				
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD34316-001
Client Id: TMW-22S
Data File: 13M26113.D
Analysis Date: 11/07/22 20:27
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**250**	**710**				

Worksheet #: 665497

Total Target Concentration 710

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26113.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 20:27
Operator : WP
Sample : AB54316-001
Misc : A,5ML!1
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:52:46 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.728	6496	39.276		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g Gasoline Range Organics	9.546	192389	710.134	ug/L	m

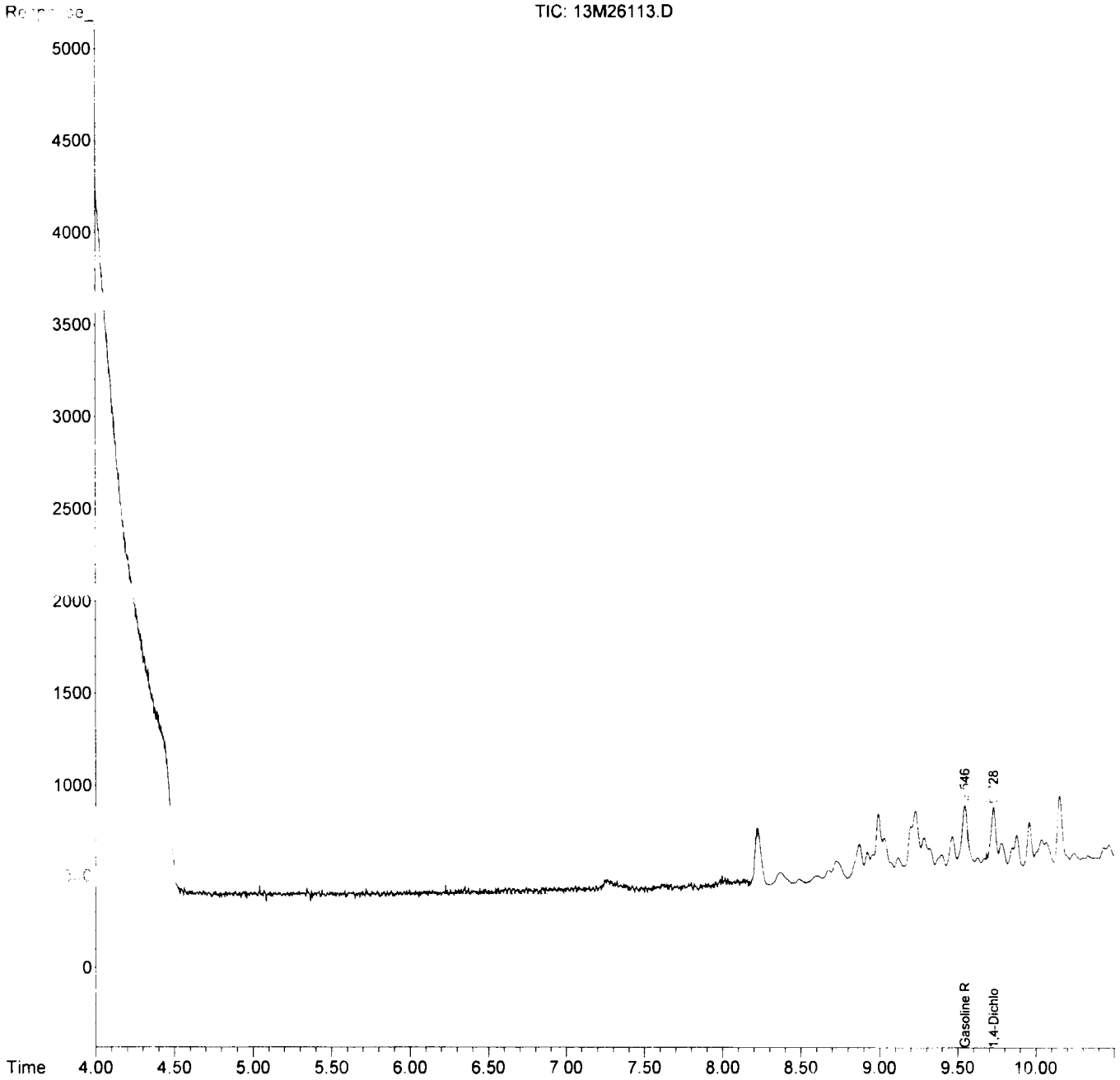
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26113.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 20:27
Operator : WP
Sample : AD34316-001
Misc : A,5ML!1
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:52:46 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD34316-002
Client Id: TMW-22D
Data File: 13M26114 D
Analysis Date: 11/07/22 20:43
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**250**	**540**				

Worksheet #: 665497 ***Total Target Concentration*** 540 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26114.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 20:43
Operator : AP
Sample : AD34316-002
Misc : A,5ML!1
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:53:49 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.672	2528	15.288		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g Gasoline Range Organics	8.221	146155	539.478	ug/L	m

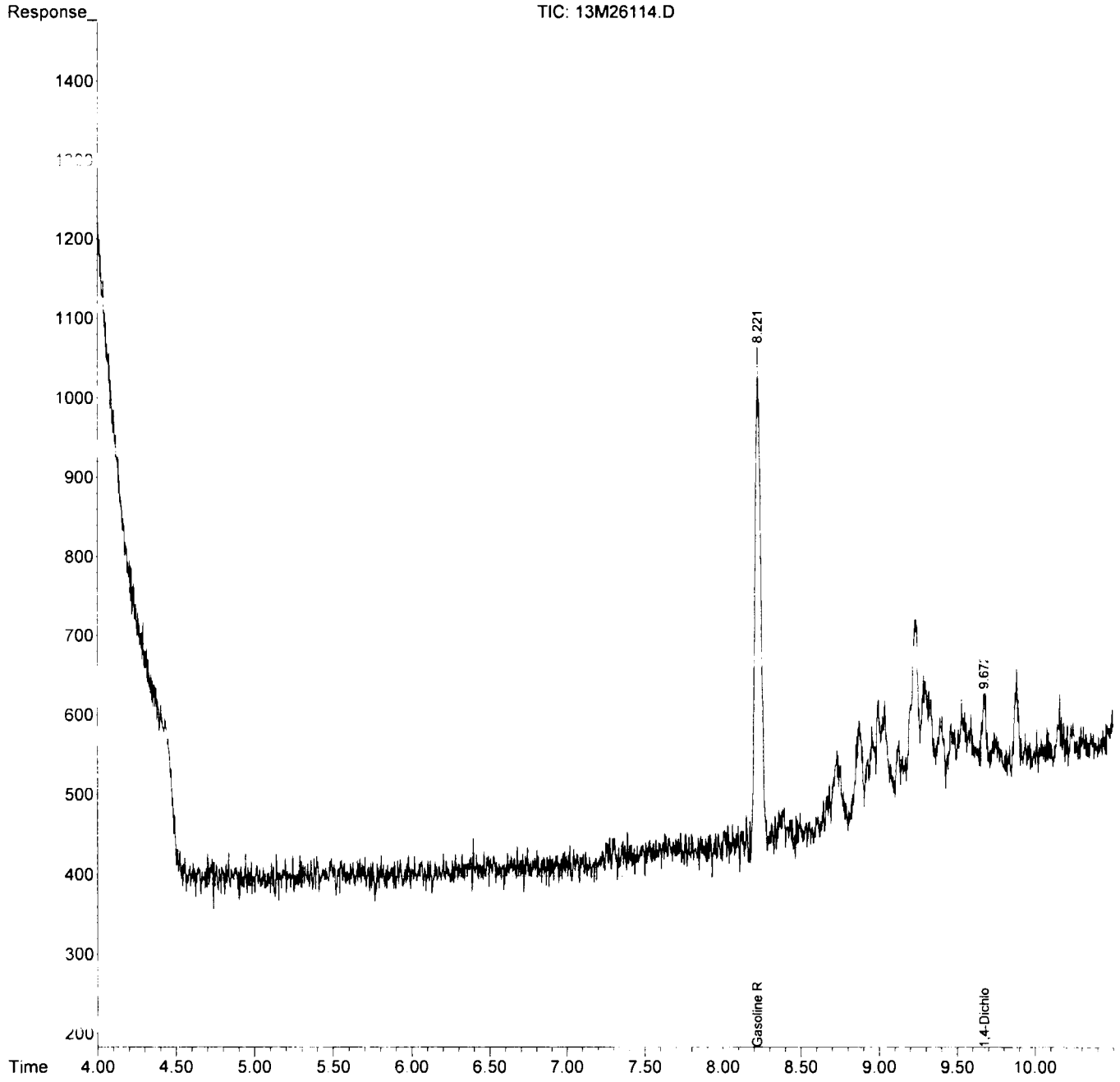
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26114.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 20:43
Operator : WP
Sample : AD34316-002
Misc : A,5ML!1
ALS Vial : 11 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:53:49 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integration : ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD34316-003
Client Id: TMW-21D
Data File: 13M26115.D
Analysis Date: 11/07/22 21:02
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 665497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26115.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 21:02
Operator : WP
Sample : AD34316-003
Misc : A,5ML!1
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:54:25 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.687	2902	17.548		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L	d

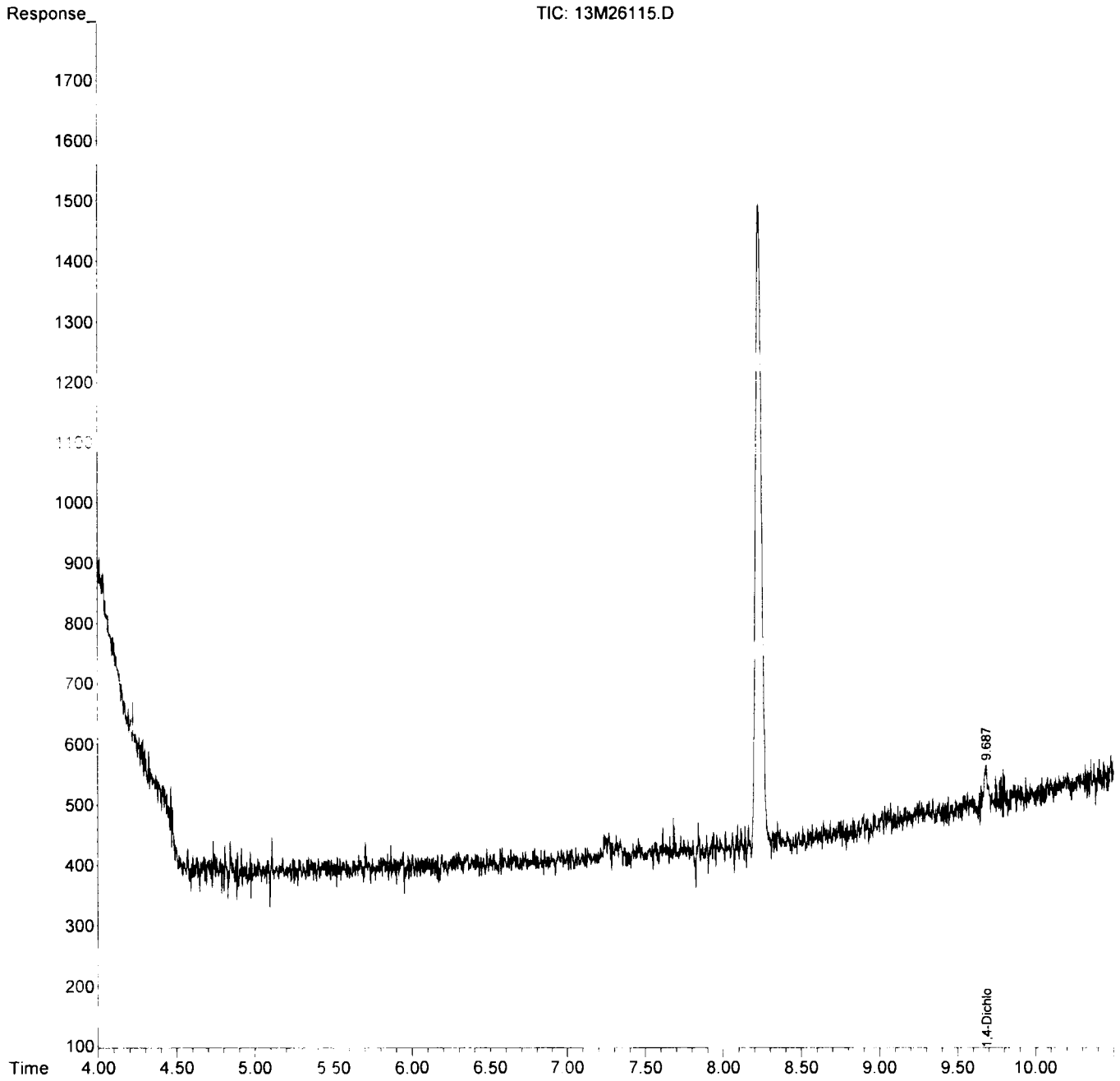
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26115.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 21:02
Operator : WP
Sample : AD34316-003
Misc : A,5ML!1
ALS Vial : 12 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:54:25 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD34316-004
Client Id: TMW-21S
Data File: 13M26124.D
Analysis Date: 11/07/22 23:33
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 665497

Total Target Concentration 0

ColumnID: ( ) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26124.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 23:33
Operator : WP
Sample : AD34316-004
Misc : A,5ML!1
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 08 00:35:49 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.682	2605	15.749		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

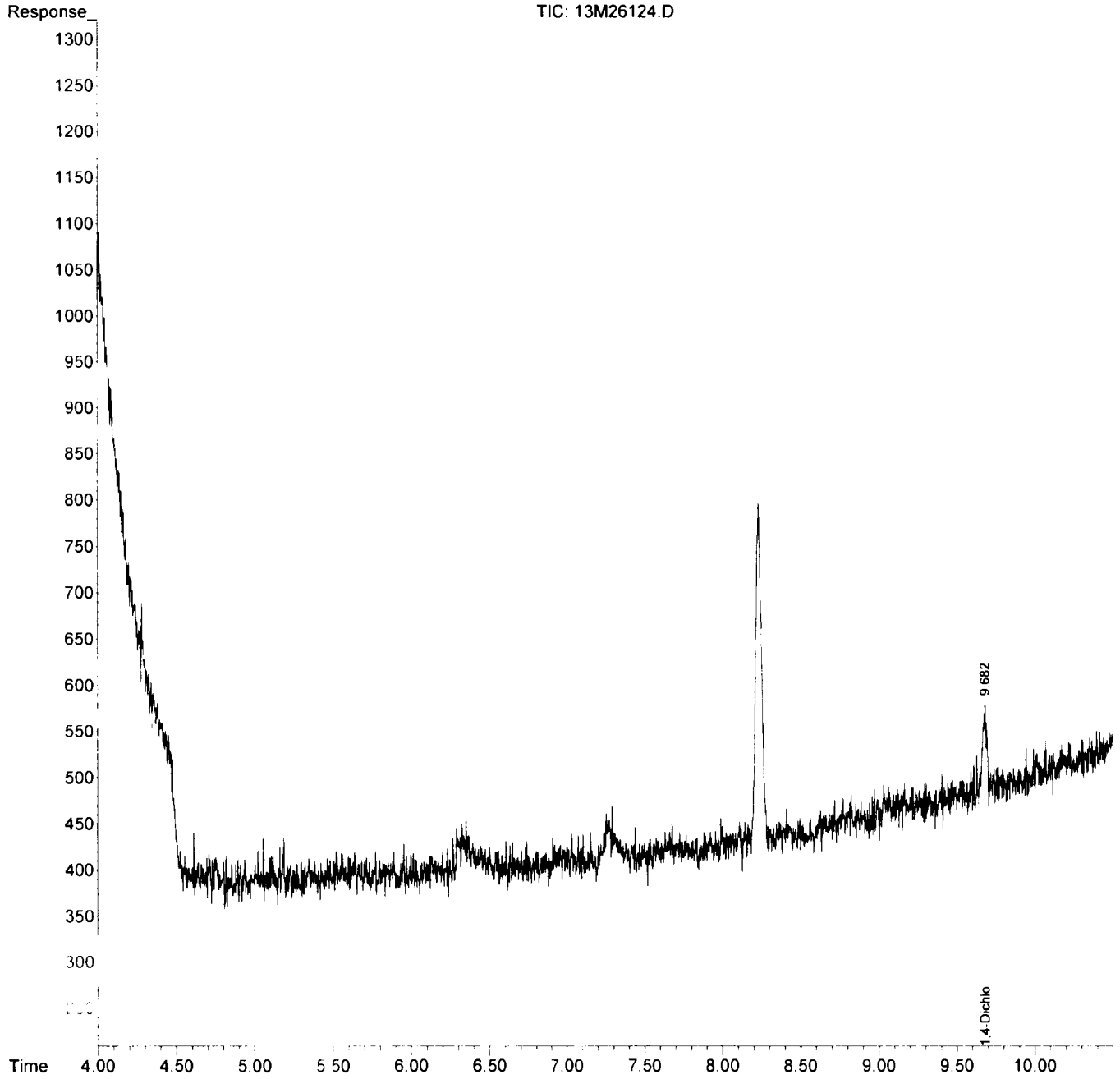
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26124.D
Signal(s) : FIDIA.CH
Acq On : 7 Nov 2022 23:33
Operator : WP
Sample : AD34316-004
Misc : A,5ML!1
ALS Vial : 18 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 08 00:35:49 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD34316-005
Client Id: TMW-23D
Data File: 13M26125.D
Analysis Date: 11/07/22 23:48
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	**Gasoline Range Organics**	**250**	**440**				

Worksheet #: 665497

Total Target Concentration 440

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26125.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 23:48
Operator : WP
Sample : AD34316-005
Misc : A,5ML!1
ALS Vial : 19 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:55:14 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
1)S	1,4-Dichlorobenzene-d4	9.735	6010	36.338
Target Compounds				
2)	2-Methylpentane	0.000	0	N.D.
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.
4)g	Gasoline Range Organics	9.549	118678	438.056 ug/L m

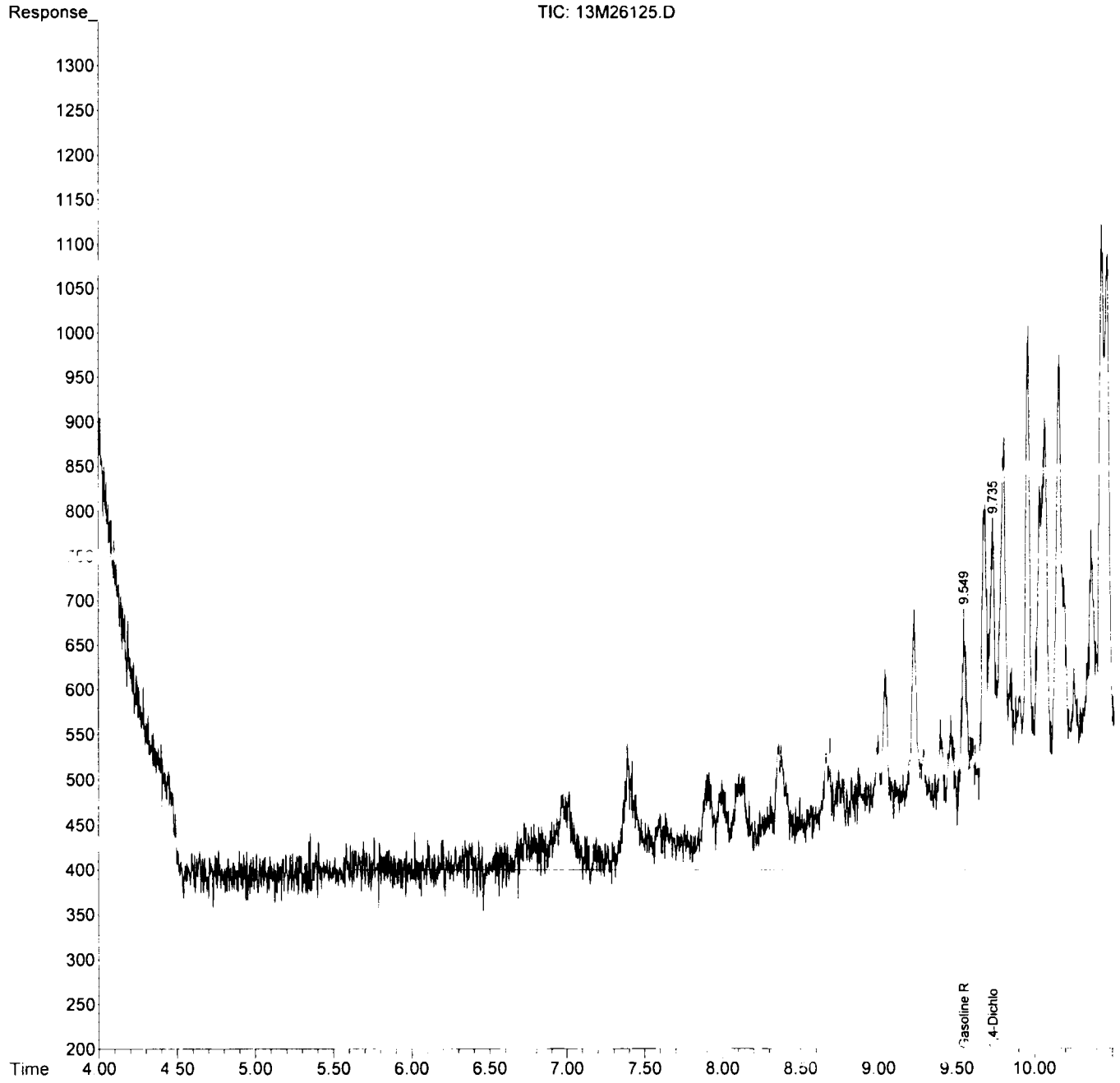
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26125.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 23:48
Operator : WP
Sample : AD34316-005
Misc : A,5ML!1
ALS Vial : 10 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 10:55:14 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD34316-006
Client Id: TMW-19S
Data File: 13M26126.D
Analysis Date: 11/08/22 00:06
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 665497 ***Total Target Concentration*** 0 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26126.D
Signal(s) : FID1A.CH
Acq On : 8 Nov 2022 00:06
Operator : WP
Sample : AD34316-006
Misc : A,5ML!1
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 08 00:37:23 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.670	2509	15.167		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

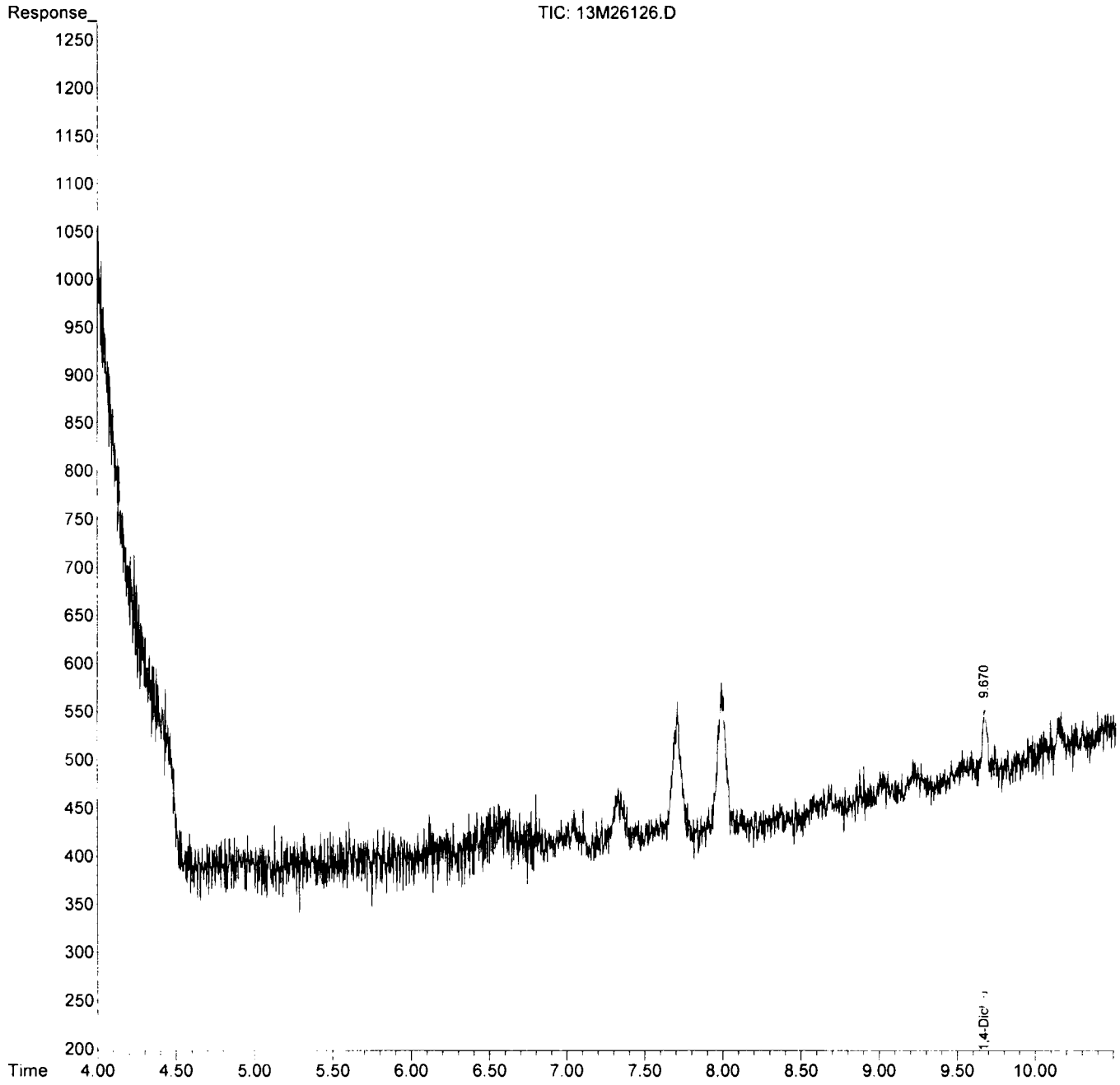
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26126.D
Signal(s) : FID1A.CH
Acq On : 8 Nov 2022 00:06
Operator : WP
Sample : [illegible]34316-006
Misc : A,5ML!1
ALS Vial : 20 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 08 00:37:23 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD34316-007
Client Id: TRIP BLANK
Data File: 13M26123.D
Analysis Date: 11/07/22 23:17
Date Rec/Extracted: 11/03/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26123.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 23:17
Operator : WP
Sample : AD34316-007
Misc : A,5ML!1
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 12:57:37 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.685	1864	11.270		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

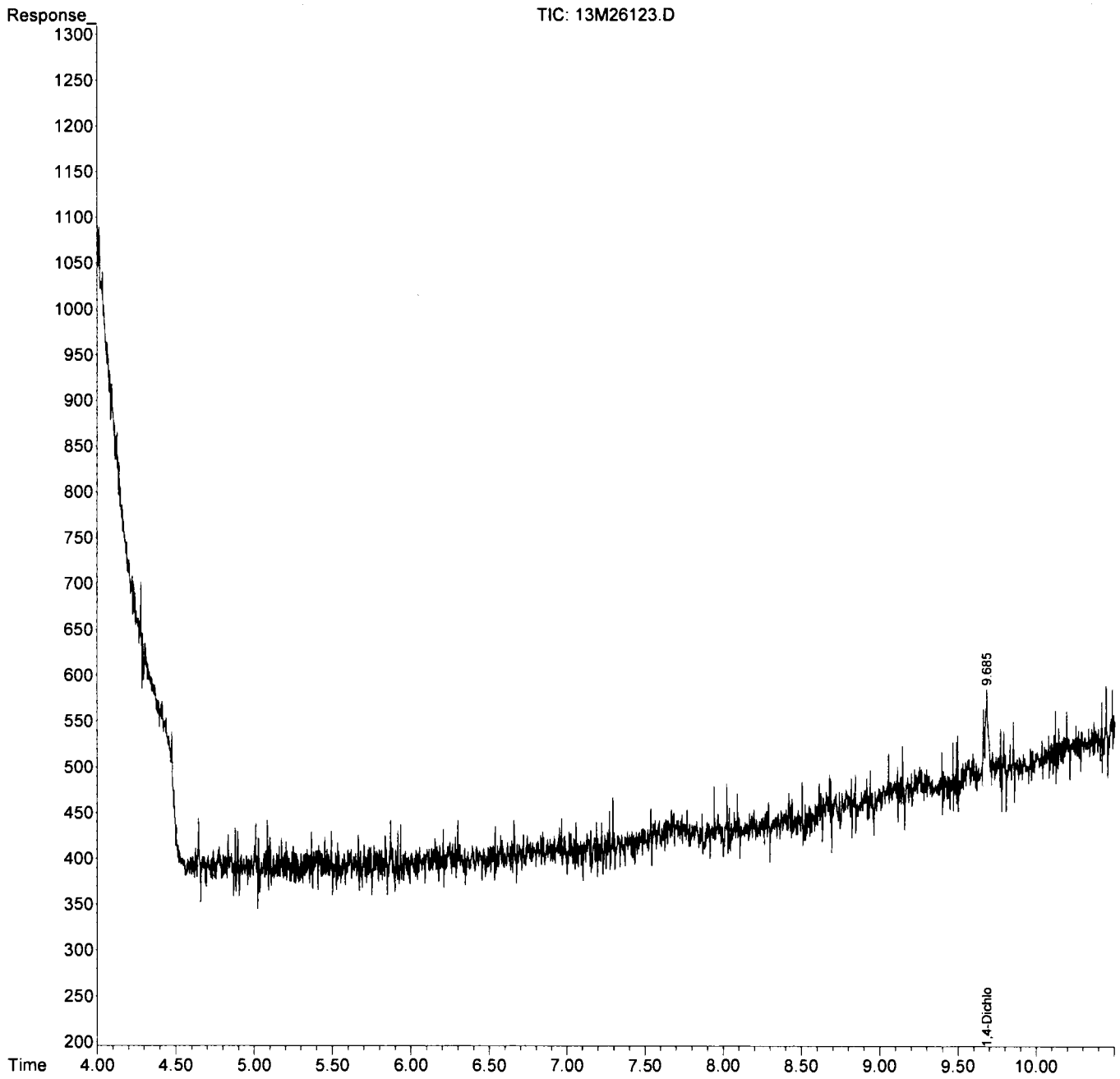
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26123.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 23:17
Operator : WP
Sample : AD34316-007
Misc : A,5ML!1
ALS Vial : 17 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 12:57:37 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M26109.D
Analysis Date 11/07/22 19:25
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 665497

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26109.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 19:25
Operator : WP
Sample : DAILY BLANK
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 07 20:19:14 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.676	3189	19.278		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

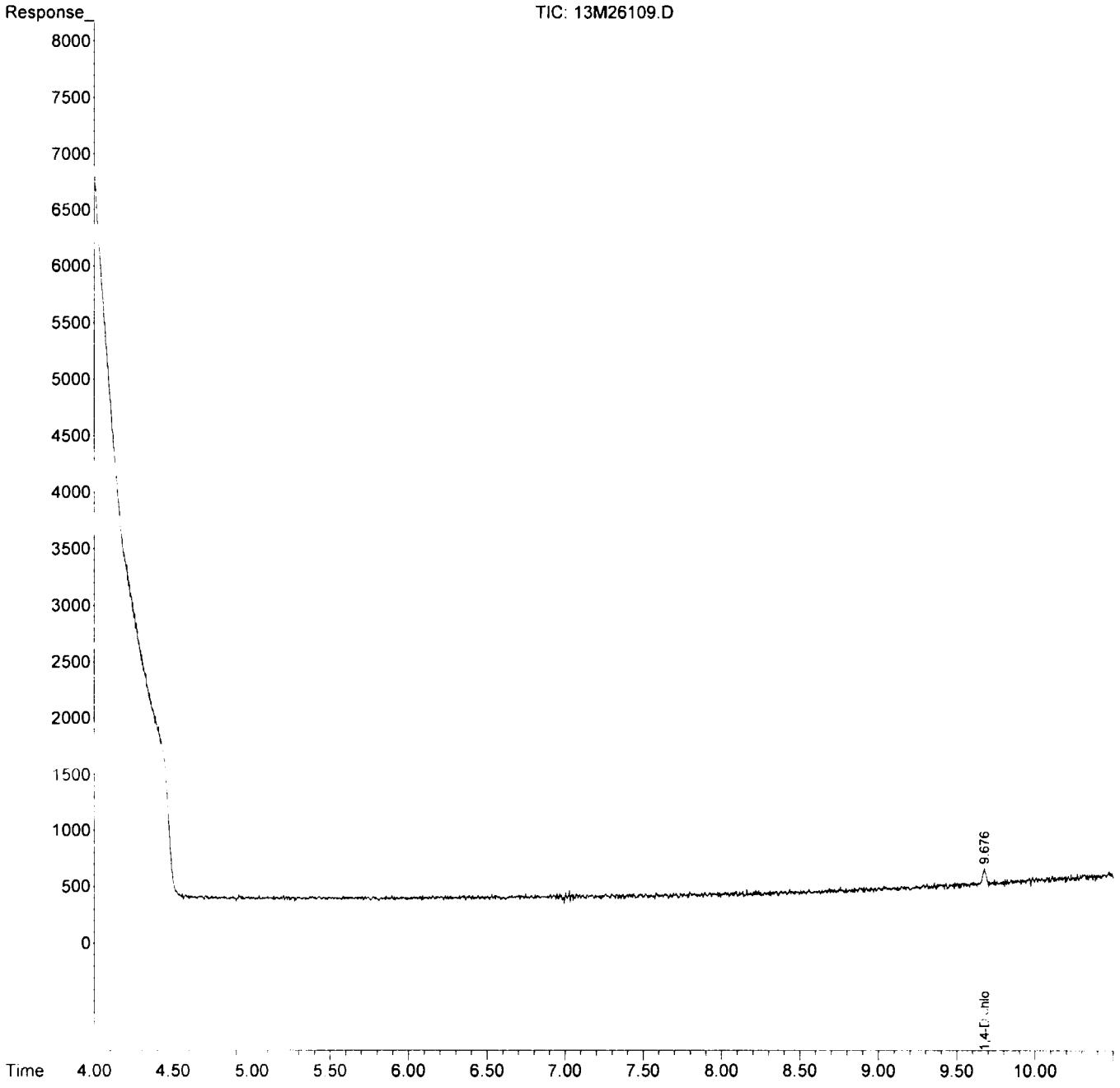
(f)=RT Delta > 1/2 Window (m)=Manual Int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-07-22\
Data File : 13M26109.D
Signal(s) : FID1A.CH
Acq On : 7 Nov 2022 19:25
Operator : WP
Sample : DAILY BLANK
Misc : A,5ML
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 07 20:19:14 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M26109.D	DAILY BLANK	A	11/07/22 19:25	1		64					
13M26113.D	AD34316-001	A	11/07/22 20:27	1		131					
13M26114.D	AD34316-002	A	11/07/22 20:43	1		51					
13M26115.D	AD34316-003	A	11/07/22 21:02	1		58					
13M26124.D	AD34316-004	A	11/07/22 23:33	1		52					
13M26125.D	AD34316-005	A	11/07/22 23:48	1		121					
13M26126.D	AD34316-006	A	11/08/22 00:06	1		51					
13M26123.D	AD34316-007	A	11/07/22 23:17	1		38*					
13M26129.D	AD34316-007	A	11/08/22 00:54	1		41*					
13M26116.D	MBS105163	A	11/07/22 21:18	1		78					
13M26120.D	AD34316-006(MS)	A	11/07/22 22:28	1		92					
13M26121.D	AD34316-006(MSD)	A	11/07/22 22:43	1		80					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105163

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26116.D	MBS105163	11/7/2022 9:18:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1833.4**	**0**	**2000**	**92**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105163

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26120.D	AD34316-006(MS)	11/7/2022 10:28:00 PM
Non Spike(If applicable):	13M26126.D	AD34316-006	11/8/2022 12:06:00 AM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**2064.36**	**0**	**2000**	**103**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26121.D	AD34316-006(MSD)	11/7/2022 10:43:00 PM
Non Spike(If applicable):	13M26126.D	AD34316-006	11/8/2022 12:06:00 AM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1642.42**	**0**	**2000**	**82**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105163

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26121.D	AD34316-006(MSD)	11/7/2022 10:43:00 PM
Duplicate(If applicable):	13M26120.D	AD34316-006(MS)	11/7/2022 10:28:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**1642.42**	**2064.36**	**23**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M26109.D
Matrix: Aqueous

Blank Analysis Date: 11/07/22 19:25
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34316-001	13M26113.D	11/07/22 20:27
AD34316-002	13M26114.D	11/07/22 20:43
AD34316-003	13M26115.D	11/07/22 21:02
AD34316-004	13M26124.D	11/07/22 23:33
AD34316-005	13M26125.D	11/07/22 23:48
AD34316-006	13M26126.D	11/08/22 00:06
AD34316-007	13M26123.D	11/07/22 23:17
AD34316-006(MSD	13M26121.D	11/07/22 22:43
AD34316-006(MS)	13M26120.D	11/07/22 22:28
MBS105163	13M26116.D	11/07/22 21:18

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26015.D	CAL@ 250 PPB	10/24/22 20:14	Aqueous	13M2602	9.6659	0.1675		
13M26016.D	CAL@ 500 PPB	10/24/22 20:29	Aqueous	13M2602	9.6742	0.0816		
13M26017.D	CAL@ 750 PPB	10/24/22 20:44	Aqueous	13M2602	9.6732	0.092		
13M26018.D	CAL@ 1000 PPB	10/24/22 21:05	Aqueous	13M2602	9.6742	0.0816		
13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	Aqueous	13M2602	9.6740	0.0837		
13M26020.D	CAL@ 2000 PPB	10/24/22 21:37	Aqueous	13M2602	9.6750	0.0734		
13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	Aqueous	13M2602	9.6821	0		
13M26022.D	6000 PPB	10/24/22 22:08	Aqueous	13M2602	9.6832	0.0114		
13M26025.D	ICV	10/24/22 23:06	Aqueous	13M2602	9.6821	0		
13M26026.D	CAL @ 2000 PPB	10/24/22 23:21	Aqueous	13M2602	9.6729	0.0951		
13M26028.D	DAILY BLANK	10/24/22 23:56	Methanol	13M2602	9.6806	0.0796		
13M26029.D	DAILY BLANK	10/25/22 00:47	Aqueous	13M2602	9.6808	0.0816		
13M26030.D	MDL @ 250 PPB	10/25/22 01:02	Aqueous	13M2602	9.6706	0.0238		
13M26031.D	MDL @ 250 PPB	10/25/22 01:17	Aqueous	13M2602	9.6710	0.0197		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26106.D	CAL @ 2000 PPB	11/07/22 18:39	Aqueous	13M2610	9.6903	0		
13M26108.D	DAILY BLANK	11/07/22 19:10	Methanol	13M2610	9.6804	0.1022		
13M26109.D	DAILY BLANK	11/07/22 19:25	Aqueous	13M2610	9.6759	0.1487		
13M26110.D	BLK	11/07/22 19:42	Aqueous	13M2610	0.0000	200		
13M26111.D	AD34278-012	11/07/22 19:57	Methanol	13M2610	9.6792	0.1146		
13M26112.D	AD34367-010	11/07/22 20:12	Methanol	13M2610	9.6687	0.2231		
13M26113.D	AD34316-001	11/07/22 20:27	Aqueous	13M2610	9.7285	0.3934		
13M26114.D	AD34316-002	11/07/22 20:43	Aqueous	13M2610	9.6723	0.1859		
13M26115.D	AD34316-003	11/07/22 21:02	Aqueous	13M2610	9.6868	0.0361		
13M26116.D	MBS105163	11/07/22 21:18	Aqueous	13M2610	9.6833	0.0723		
13M26117.D	MBS105164	11/07/22 21:34	Methanol	13M2610	9.6792	0.1146		
13M26118.D	AD34278-012(MS)	11/07/22 21:52	Methanol	13M2610	9.6788	0.1187		
13M26119.D	AD34278-012(MSD)	11/07/22 22:10	Methanol	13M2610	9.6866	0.0382		
13M26120.D	AD34316-006(MS)	11/07/22 22:28	Aqueous	13M2610	9.6857	0.0475		
13M26121.D	AD34316-006(MSD)	11/07/22 22:43	Aqueous	13M2610	9.6819	0.0867		
13M26123.D	AD34316-007	11/07/22 23:17	Aqueous	13M2610	0.0000	200		
13M26124.D	AD34316-004	11/07/22 23:33	Aqueous	13M2610	9.6817	0.0888		
13M26125.D	AD34316-005	11/07/22 23:48	Aqueous	13M2610	9.7348	0.4582		
13M26126.D	AD34316-006	11/08/22 00:06	Aqueous	13M2610	9.6704	0.2056		
13M26127.D	2000 PPB	11/08/22 00:22	Aqueous	13M2610	9.6815	0.0908		
13M26129.D	AD34316-007	11/08/22 00:54	Aqueous	13M2610	9.6695	0.2149		
13M26130.D	34316-006	11/08/22 01:15	Aqueous	13M2610	9.6832	0.0733		
13M26131.D	34316-004	11/08/22 01:33	Aqueous	13M2610	9.6952	0.0506		
13M26132.D	34316-002	11/08/22 01:53	Aqueous	13M2610	9.6888	0.0155		
13M26133.D	34316-003	11/08/22 02:13	Aqueous	13M2610	9.6937	0.0351		
13M26134.D	CAL @ 2000 PPB	11/08/22 02:28	Aqueous	13M2610	9.6831	0.0743		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2110304 0188

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	2	13M26020.D	CAL@ 2000 PPB	10/24/22 21:37
3	13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	4	13M26018.D	CAL@ 1000 PPB	10/24/22 21:05
5	13M26017.D	CAL@ 750 PPB	10/24/22 20:44	6	13M26016.D	CAL@ 500 PPB	10/24/22 20:29
7	13M26015.D	CAL@ 250 PPB	10/24/22 20:14				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	----	0.0193	0.0169	0.0162	0.0133	0.0191	0.0141	----	0.0165	9.71	-1	-1	15		30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0003	0.0003	0.0004	0.0003	0.0002	0.0003	0.0004	----	0.000360	5.60	0.990	0.994	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1.2.4-Trimethylbenzene	1	0	Avg	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	----	0.000460	9.50	0.989	0.999	9.5	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0264	0.0251	0.0264	0.0279	0.0268	0.0309	0.0260	----	0.0271	8.72	0.998	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.09 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M26106.D			13M26134.D										
Method:			8015			8015										
Calibration Name:			CAL @ 2000 PPB			CAL @ 2000 PPB										
Calibration Date/Time			11/07/22 18:39			11/08/22 02:28										
			Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	2164	2000	8.2	1928	2000	3.6									

Flags/Notes: **** - Values outside of limits for this column/run***

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 US Highway 46, STE D · Fairfield, NJ 07004-2327
2 Madison Road, Fairfield, NJ 07004-2327
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: WMATA NBG

Client PO: 0444100

Report To: Intertek-PSI
Env. Srvs Building & Constuction
2930 Eskridge Road
Fairfax, VA 22031
Attn: Rinzova Renthlei/Jeff Martineau

Received Date: 11/15/2022

Report Date: 12/13/2022

Deliverables: MDE-R

Lab ID: AD34533

Lab Project No: 2111513

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Sean Berls - Quality Assurance Officer OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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Hampton-Clarke
WBE/DBE/SBE 800-426-9992

Form 1 Sample and Blank Results

Form 2 Surrogate Recovery

Form 3 Spike Recovery

Form 4 Method Blank Summary

Form 5 Run Logs & BFB Spectra

Form 6, 7 Calibration Summary

Sample Summary

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111513

Lab#	SampleID	Matrix	Collection Date	Receipt Date
AD34533-001	TMW-20S	Aqueous	11/11/2022	11/15/2022
AD34533-002	TMW-20D	Aqueous	11/11/2022	11/15/2022

HC Case Narrative

Client: Intertek-PSI
Project: WMATA NBG

HC Project: 2111513

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 105230 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries. Please refer to Form 4 to see which samples are associated with the Method Blank Spike.

The spiking compounds were diluted out of the Matrix Spike and Matrix Spike Duplicate for batch 105230. Please refer to the applicable Form 3 for the recoveries.

Total Petroleum Hydrocarbon Analysis:

The Matrix Spike Duplicate for batch 103682 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Diesel Range Organics Analysis:

The Matrix Spike Duplicate for batch 103682 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Gasoline Range Organics Analysis:

Data conforms to method requirements.

Sean Berls
Quality Assurance Officer

Or

Jean Revolus
Laboratory Director

12/13/12
Date

HC Executive Summary

Client: Intertek-PSI

HC Project #: 2111513

Project: WMATA NBG

Lab#: AD34533-001 **Sample ID: TMW-20S**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	1.0	14	EPA 8260D
Tetrachloroethene	ug/l	1.0	300	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	4.3	EPA 8260D
Trichloroethene	ug/l	1.0	24	EPA 8260D
Vinyl chloride	ug/l	1.0	1.4	EPA 8260D

Lab#: AD34533-002 **Sample ID: TMW-20D**

Analyte	Units	RL	Result	Analytical Method
cis-1,2-Dichloroethene	ug/l	1.0	11	EPA 8260D
Tetrachloroethene	ug/l	1.0	260	EPA 8260D
trans-1,2-Dichloroethene	ug/l	1.0	2.4	EPA 8260D
Trichloroethene	ug/l	1.0	17	EPA 8260D

HC Report of Analysis

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111513

Sample ID: TMW-20S
Lab#: AD34533-001
Matrix: Aqueous

Collection Date: 11/11/2022
Receipt Date: 11/15/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	ug/l	300	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**14**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND

Sample ID:	**TMW-20S**			**Collection Date:**	**11/11/2022**
Lab#:	**AD34533-001**			**Receipt Date:**	**11/15/2022**
Matrix:	**Aqueous**				
Ethylbenzene		1	ug/l	1.0	ND
Isopropylbenzene		1	ug/l	1.0	ND
m&p-Xylenes		1	ug/l	1.0	ND
Methyl Acetate		1	ug/l	1.0	ND
Methylcyclohexane		1	ug/l	1.0	ND
Methylene chloride		1	ug/l	1.0	ND
Methyl-t-butyl ether		1	ug/l	0.87	ND
o-Xylene		1	ug/l	1.0	ND
Styrene		1	ug/l	1.0	ND
Tetrachloroethene		**1**	**ug/l**	**1.0**	**300**
Toluene		1	ug/l	1.0	ND
trans-1,2-Dichloroethene		**1**	**ug/l**	**1.0**	**4.3**
trans-1,3-Dichloropropene		1	ug/l	1.0	ND
Trichloroethene		**1**	**ug/l**	**1.0**	**24**
Trichlorofluoromethane		1	ug/l	1.0	ND
Vinyl chloride		**1**	**ug/l**	**1.0**	**1.4**
Xylenes (Total)		1	ug/l	1.0	ND

Sample ID: TMW-20D
Lab#: AD34533-002
Matrix: Aqueous
Collection Date: 11/11/2022
Receipt Date: 11/15/2022

Diesel Range Organics 8015D(C10-C28)

Analyte	DF	Units	RL	Result
Diesel Range Organics	1	ug/l	300	ND

Gasoline range organics 8015D(C6-C10)

Analyte	DF	Units	RL	Result
Gasoline Range Organics	1	ug/l	250	ND

TPH 8015D (C8-C44)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	1	ug/l	300	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.66	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**11**
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.87	ND

Sample ID:	**TMW-20D**			**Collection Date:**	**11/11/2022**
Lab#:	**AD34533-002**			**Receipt Date:**	**11/15/2022**
Matrix:	**Aqueous**				
o-Xylene		1	ug/l	1.0	ND
Styrene		1	ug/l	1.0	ND
Tetrachloroethene		**1**	**ug/l**	**1.0**	**260**
Toluene		1	ug/l	1.0	ND
trans-1,2-Dichloroethene		**1**	**ug/l**	**1.0**	**2.4**
trans-1,3-Dichloropropene		1	ug/l	1.0	ND
Trichloroethene		**1**	**ug/l**	**1.0**	**17**
Trichlorofluoromethane		1	ug/l	1.0	ND
Vinyl chloride		1	ug/l	1.0	ND
Xylenes (Total)		1	ug/l	1.0	ND

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

DUP = Duplicate

LCS = Laboratory Control Spike

MBS = Method Blank Spike

MDL = Method Detection Limit

MR = Matrix Replicate

MS = Matrix Spike

MSD = Matrix Spike Duplicate

NA = Not Applicable

ND = Not Detected

PS = Post Digestion Spike

RL* = Reporting Limit

RT = Retention Time

SD = Serial Dilution

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Laboratory Chronicle

Client: Intertek-PSI
Project: WMATA NBG

HC Project #: 2111513

Lab#: AD34533-001 **Sample ID: TMW-20S**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/19/22 06:30	DYR	EPA 8015D	11/22/22 14:08	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/15/22 18:05	SG
TPH 8015D (C8-C44)	Mod. Shaker	11/19/22 06:30	DYR	EPA 8015D	11/22/22 14:08	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/15/22 20:36	SG

Lab#: AD34533-002 **Sample ID: TMW-20D**

Test Code	Prep Method	Prep Date	By	Analytical Method	Analysis Date	By
Diesel Range Organics 8015D(C10-C28)	Mod. Shaker	11/19/22 06:30	DYR	EPA 8015D	11/22/22 14:34	AH/ABM/RR/K
Gasoline range organics 8015D(C6-C10)	EPA5030/5035			EPA 8015D	11/15/22 18:27	SG
TPH 8015D (C8-C44)	Mod. Shaker	11/19/22 06:30	DYR	EPA 8015D	11/22/22 14:34	AH/ABM/RR/K
Volatile Organics (no search) 8260	EPA5030/5035			EPA 8260D	11/15/22 19:57	SG

Chain of Custody

2111513 0011

Hampton-Clarke, Inc. (WBE/DBE/SBE)
175 US Highway 46 and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056
NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

Hampton-Clarke WBE/DBE/SBE 800-426-9992
A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project# (Lab Use Only): 211513

Page _____ of _____

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%) *	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%) *	Reduced:	EnviroData
3 Business Days (50%) *	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%) *	[ ] PA [ ] Other___	[ ] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[ ] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other: _____		Other: _____

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Interlink-PSI
Address: 2930 Eskridge Rd, Fairfax VA
1b) Email/Cell/Fax/Ph: Jeff Martineau
1c) Send Invoice to:
1d) Send Report to:

Project Information

2a) Project: WMATA NBG
2b) Project Mgr: Jeff Martineau
2c) Project Location (City/State): Washington DC
2d) Quote/PO # (If Applicable): 044100

FOR LAB USE ONLY ↓

Batch # AD34533

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	VOC	TPH-DRO/GRO	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	TMW-20S	GW	11/11/22	1020			X	X					2		6		
002	TMW-20D	GW	11/11/22	1202			X	X					2		6		

10) Relinquished by:	Accepted by:	Date	Time
T. Renthle	FEDEX		
FEDEX	[signature]	11/15/22	11:30

11) Sampler (print name): RINZO RENTHLE Date: 11/14/22

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270E SIM)
- [ ] VOC (8260D SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2-9

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD34533 Entered By: maxwell

Date Entered 11/15/2022 11:43:00 AM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	Yes	Are the COC seals intact?
4	T-461	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2 9
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify (TB date, sample matrix, any missing info, etc.)
14	NA	Corrective actions (Specify item number and corrective action taken).
15	NA	Were any samples for ortho-phosphate or dissolved ferrous iron field filtered?

PRESERVATION DOCUMENT

Batch Number AD34533

Entered By: maxwell

Date Entered 11/15/2022 11:43:00 AM

Lab#	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD34533-001	40ML	G	VO	HCL	14470	1	HC291595
AD34533-001	1L	G	TPH	HCL	1462006	1	HC291595
AD34533-002	40ML	G	VO	HCL	14470	1	HC291595
AD34533-002	1L	G	TPH	HCL	1462006	1	HC291595

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD34533-001	11/15/22 11:30	MAXW	0	M	Received
AD34533-001	11/15/22 11:43	MAXW	0	M	Login
AD34533-001	11/15/22 13:09	R31	1	A	NONE
AD34533-001	11/15/22 13:09	R31	2	A	NONE
AD34533-001	11/15/22 16:32	SG	2	A	VOA
AD34533-001	11/15/22 13:09	R31	3	A	PH/CHECK
AD34533-001	11/15/22 13:09	R31	4	A	NONE
AD34533-001	11/15/22 16:01	SG	4	M	GRO
AD34533-001	11/15/22 13:09	R31	5	A	NONE
AD34533-001	11/15/22 13:09	R31	6	A	NONE
AD34533-001	11/15/22 12:22	R12	7	A	NONE
AD34533-001	11/19/22 06:07	DYR	7	A	TPH AQ
AD34533-001	11/19/22 10:52	R12	7	A	NONE
AD34533-001	11/15/22 12:22	R12	8	A	NONE
AD34533-001	11/19/22 06:07	DYR	8	A	TPH AQ
AD34533-002	11/15/22 11:30	MAXW	0	M	Received
AD34533-002	11/15/22 11:43	MAXW	0	M	Login
AD34533-002	11/15/22 13:09	R31	1	A	NONE
AD34533-002	11/15/22 13:09	R31	2	A	NONE
AD34533-002	11/15/22 16:32	SG	2	A	VOA
AD34533-002	11/15/22 13:09	R31	3	A	PH/CHECK
AD34533-002	11/15/22 13:09	R31	4	A	NONE
AD34533-002	11/15/22 16:01	SG	4	M	GRO
AD34533-002	11/15/22 13:09	R31	5	A	NONE
AD34533-002	11/15/22 13:09	R31	6	A	NONE
AD34533-002	11/15/22 12:22	R12	7	A	NONE
AD34533-002	11/15/22 12:22	R12	8	A	NONE
AD34533-002	11/19/22 06:07	DYR	8	A	TPH AQ

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

Volatile Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34533-001
Client Id: TMW-20S
Data File: 2M176234.D
Analysis Date: 11/15/22 20:36
Date Rec/Extracted: 11/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**14**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**300**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**4.3**
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**24**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	**75-01-4**	**Vinyl Chloride**	**1.0**	**1.4**
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD34533-001 Operator : SG Qt Meth : 2M_A1025.M
Data File: 2M176234.D Sam Mult : 1 Vial# : 1 Qt On : 11/15/22 21:29
Acq On : 11/15/22 20:36 Misc : A,5ML!2 Qt Upd On: 10/25/22 22:22

Data Path : G:\GcMsData\2022\GCMS_2\Data\11-15-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

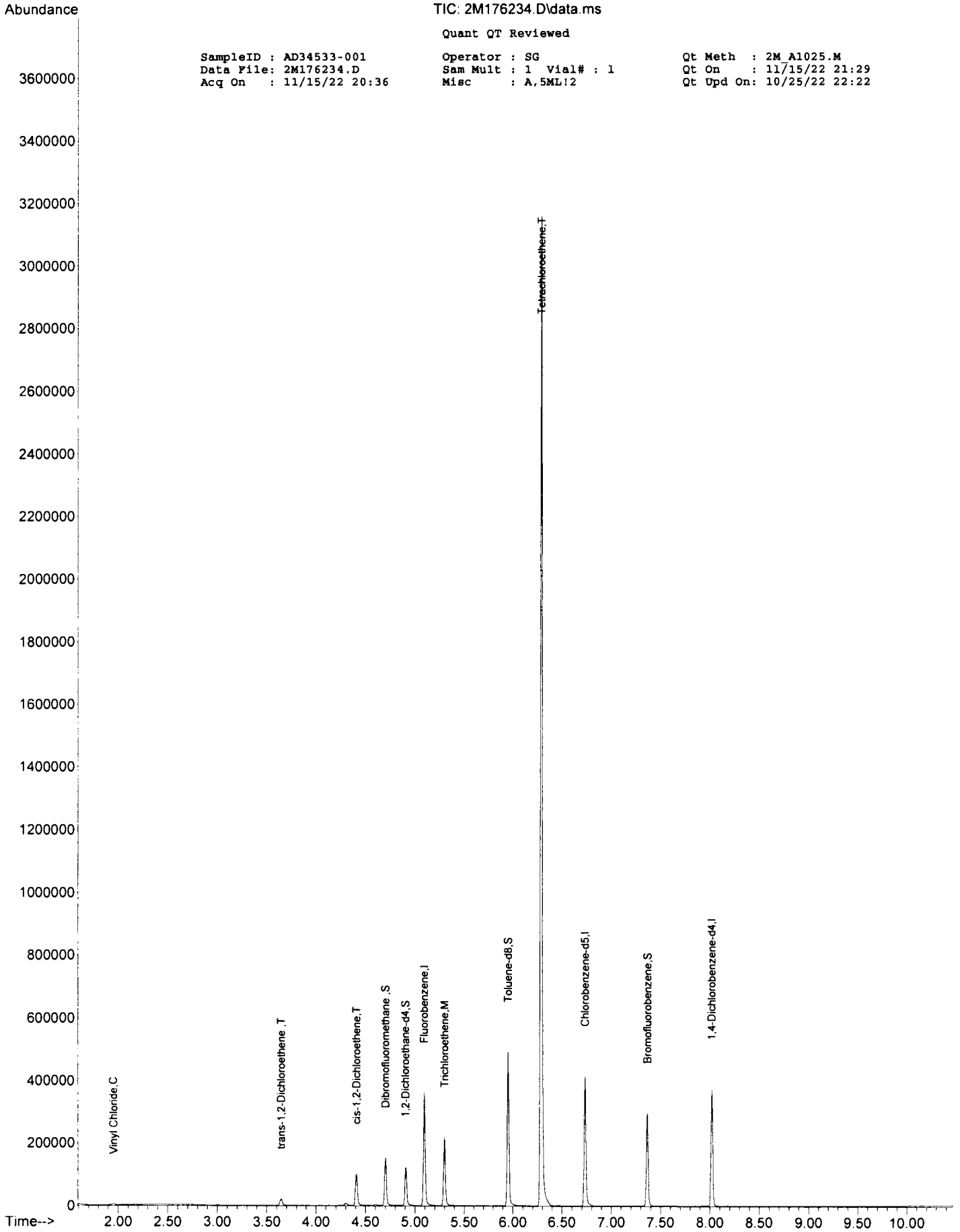
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.093	96	229899	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	182478	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	78479	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.703	111	63947	29.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.77%			
39) 1,2-Dichloroethane-d4	4.904	67	31001	31.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.60%			
66) Toluene-d8	5.952	98	232373	30.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.93%			
76) Bromofluorobenzene	7.367	174	66771	29.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.67%			
Target Compounds						Qvalue
9) Vinyl Chloride	1.953	62	2665m	1.4241	ug/l	
28) trans-1,2-Dichloroethene	3.648	96	8097m	4.3155	ug/l	
30) cis-1,2-Dichloroethene	4.410	61	40316m	14.4986	ug/l	
49) Trichloroethene	5.300	130	53581m	23.8979	ug/l	
65) Tetrachloroethene	6.288	164	510892m	301.5967	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

TIC: 2M176234.D\data.ms

Quant QT Reviewed

SampleID : AD34533-001 Operator : SG Qt Meth : 2M_A1025.M
Data File: 2M176234.D Sam Mult : 1 Vial# : 1 Qt On : 11/15/22 21:29
Acq On : 11/15/22 20:36 Misc : A,5ML!2 Qt Upd On: 10/25/22 22:22



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD34533-002
Client Id: TMW-20D
Data File: 2M176232.D
Analysis Date: 11/15/22 19:57
Date Rec/Extracted: 11/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	**156-59-2**	**cis-1,2-Dichloroethene**	**1.0**	**11**
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**260**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	**156-60-5**	**trans-1,2-Dichloroethene**	**1.0**	**2.4**
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	**79-01-6**	**Trichloroethene**	**1.0**	**17**
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

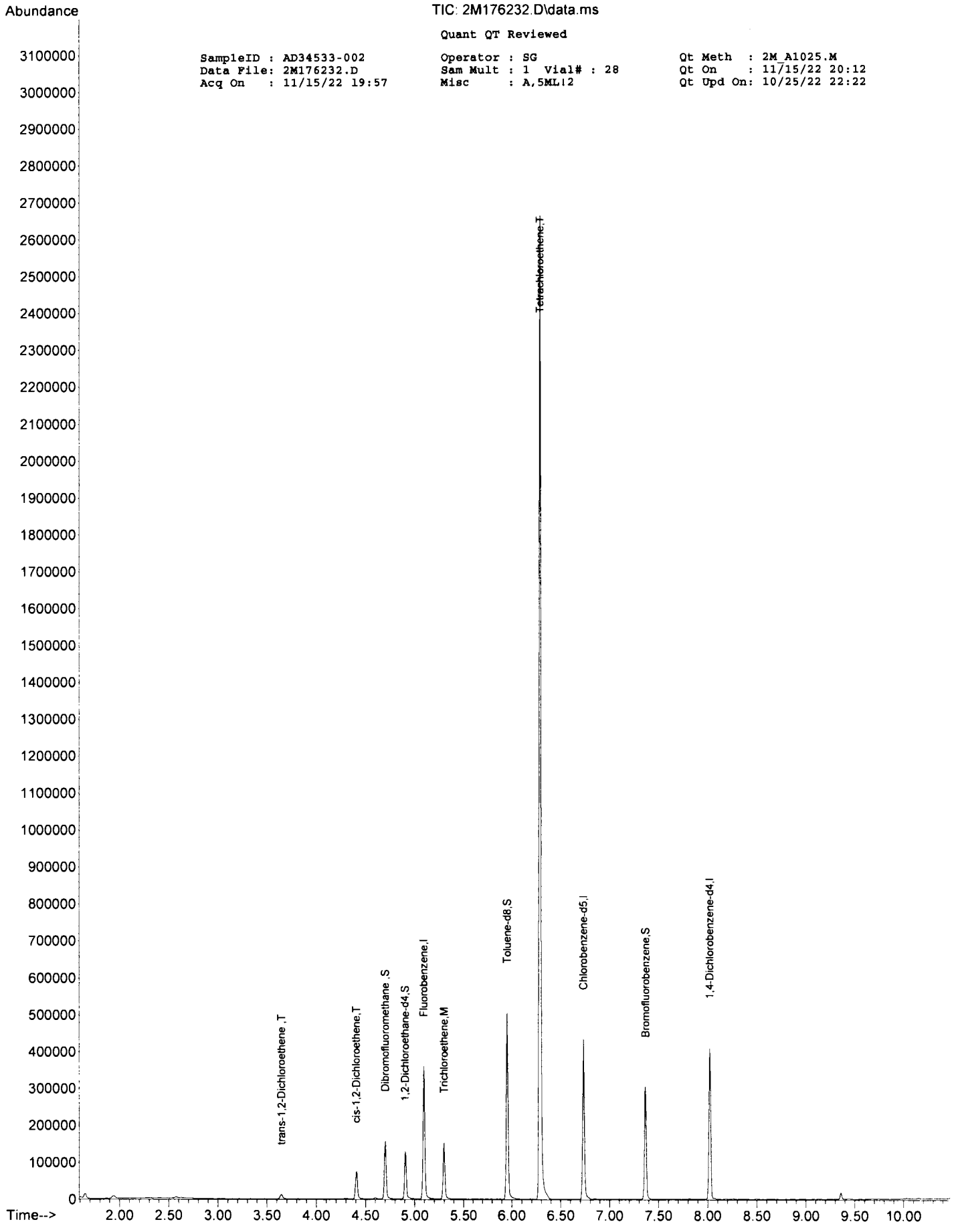
Quantitation Report (QT Reviewed)

SampleID : AD34533-002 Operator : SG Qt Meth : 2M_A1025.M
Data File: 2M176232.D Sam Mult : 1 Vial# : 28 Qt On : 11/15/22 20:12
Acq On : 11/15/22 19:57 Misc : A,5ML!2 Qt Upd On: 10/25/22 22:22

Data Path : G:\GcMsData\2022\GCMS_2\Data\11-15-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.093	96	232272	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.733	117	187483	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	85972	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	65370	30.28	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.93%			
39) 1,2-Dichloroethane-d4	4.904	67	32255	32.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.70%			
66) Toluene-d8	5.952	98	235189	30.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.40%			
76) Bromofluorobenzene	7.367	174	71854	28.78	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.93%			
Target Compounds						Qvalue
28) trans-1,2-Dichloroethene	3.648	96	4633m	2.4440	ug/l	
30) cis-1,2-Dichloroethene	4.404	61	29793m	10.6048	ug/l	
49) Trichloroethene	5.300	130	37672m	16.6306	ug/l	
65) Tetrachloroethene	6.288	164	444191m	255.2207	ug/l	

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M176232.D\data.ms
Quant QT Reviewed
SampleID : AD34533-002
Data File: 2M176232.D
Acq On : 11/15/22 19:57
Operator : SG
Sam Mult : 1 Vial# : 28
Misc : A,5ML;2
Qt Meth : 2M_A1025.M
Qt On : 11/15/22 20:12
Qt Upd On: 10/25/22 22:22
trans-1,2-Dichloroethene,T
cis-1,2-Dichloroethene,T
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 2M176211.D
Analysis Date: 11/15/22 13:02
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.66	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.87	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 666930

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

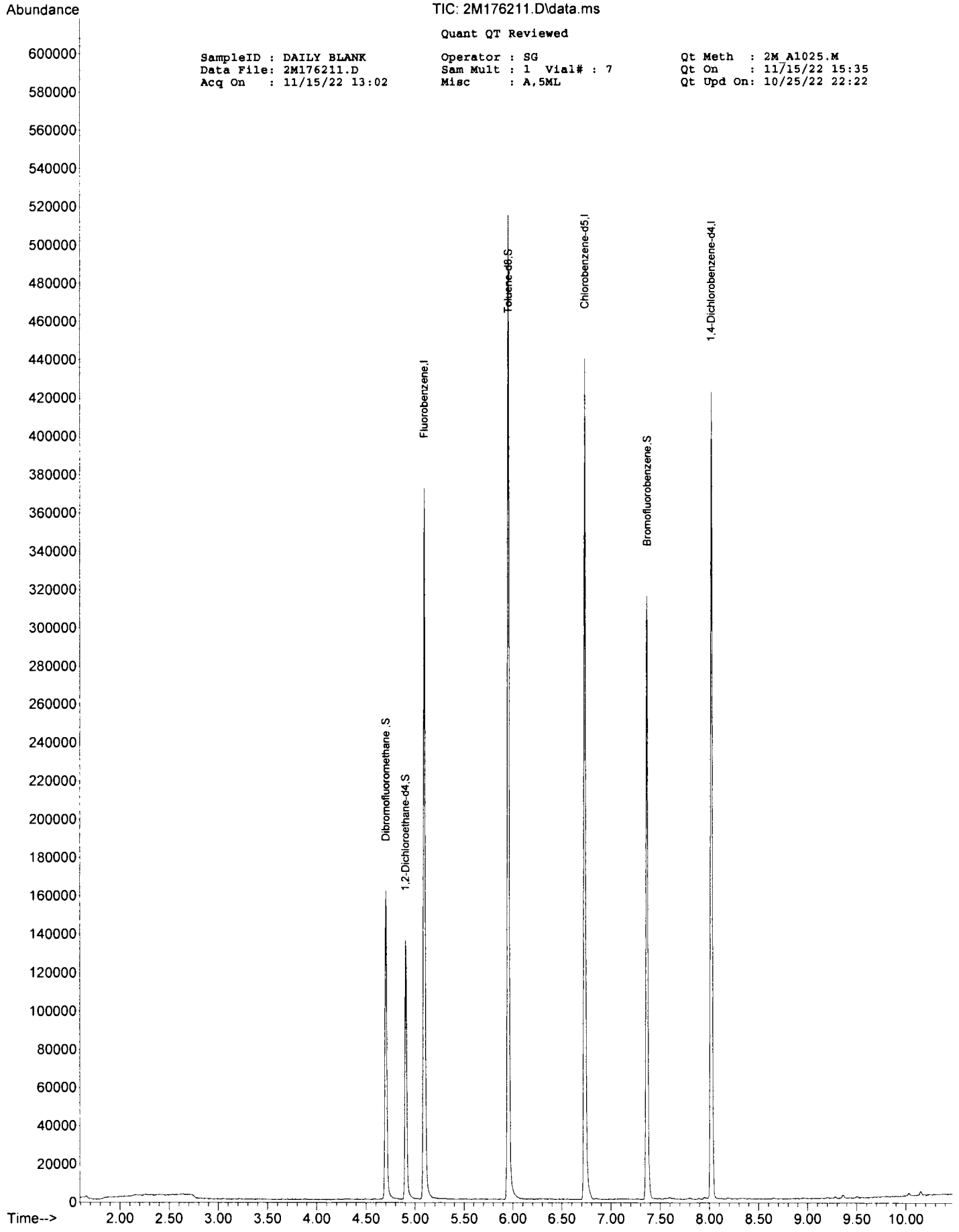
Quantitation Report (QT Reviewed)

SampleID : DAILY BLANK Operator : SG Qt Meth : 2M_A1025.M
Data File: 2M176211.D Sam Mult : 1 Vial# : 7 Qt On : 11/15/22 15:35
Acq On : 11/15/22 13:02 Misc : A,5ML Qt Upd On: 10/25/22 22:22

Data Path : G:\GcMsData\2022\GCMS_2\Data\11-15-22\
Qt Path : G:\GcMsData\2022\GCMS_2\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.092	96	236459	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.732	117	193233	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.019	152	88391	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.702	111	66234	30.14	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.47%			
39) 1,2-Dichloroethane-d4	4.903	67	32718	31.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.30%			
66) Toluene-d8	5.952	98	240460	30.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.57%			
76) Bromofluorobenzene	7.366	174	72626	28.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 2M176211.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 2M176211.D
Acq On : 11/15/22 13:02
Operator : SG
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 2M_A1025.M
Qt On : 11/15/22 15:35
Qt Upd On: 10/25/22 22:22
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

FORM2

Surrogate Recovery

Method: EPA 8260D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
2M176211.D	DAILY BLANK	A	11/15/22 13:02	1		100	106	101	94		
2M176234.D	AD34533-001	A	11/15/22 20:36	1		100	104	103	98		
2M176232.D	AD34533-002	A	11/15/22 19:57	1		101	107	101	96		
2M176213.D	MBS105230	A	11/15/22 13:42	1		101	104	103	97		
2M176215.D	AD34419-005(50X)(T:M	A	11/15/22 14:21	1		100	104	102	98		
2M176216.D	AD34419-005(50X)(T:M	A	11/15/22 14:41	1		100	103	102	99		
2M176217.D	AD34419-005(50X)(T)	A	11/15/22 15:01	1		101	103	102	97		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105230

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M176213.D	MBS105230	11/15/2022 1:42:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	19.099	0	20	95	50	150
Dichlorodifluoromethane	1	12.4708	0	20	62	50	150
Chloromethane	1	14.8507	0	20	74	50	150
Bromomethane	1	17.0791	0	20	85	50	150
Vinyl Chloride	1	16.3696	0	20	82	50	150
Chloroethane	1	17.9511	0	20	90	50	150
Trichlorofluoromethane	1	17.8032	0	20	89	50	150
Ethyl ether	1	16.9935	0	20	85	50	150
Furan	1	16.5152	0	20	83	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.3546	0	20	87	50	150
Methylene Chloride	1	16.9093	0	20	85	70	130
Acrolein	1	62.8719	0	100	63	50	150
Acrylonitrile	1	16.6887	0	20	83	50	150
Iodomethane	1	8.0148	0	20	40*	50	150
Acetone	1	77.8615	0	100	78	50	150
Carbon Disulfide	1	14.9839	0	20	75	50	150
t-Butyl Alcohol	1	64.0612	0	100	64	50	150
n-Hexane	1	17.5379	0	20	88	70	130
Di-isopropyl-ether	1	16.5279	0	20	83	70	130
1,1-Dichloroethene	1	17.168	0	20	86	70	130
Methyl Acetate	1	16.0213	0	20	80	50	150
Methyl-t-butyl ether	1	16.2033	0	20	81	70	130
1,1-Dichloroethane	1	16.817	0	20	84	70	130
trans-1,2-Dichloroethene	1	17.0935	0	20	85	70	130
Ethyl-t-butyl ether	1	16.3148	0	20	82	70	130
cis-1,2-Dichloroethene	1	17.1532	0	20	86	70	130
Bromochloromethane	1	17.5044	0	20	88	70	130
2,2-Dichloropropane	1	15.8806	0	20	79	70	130
Ethyl acetate	1	16.4372	0	20	82	50	150
1,4-Dioxane	1	819.1235	0	1000	82	50	150
1,1-Dichloropropene	1	17.6497	0	20	88	70	130
Chloroform	1	17.8917	0	20	89	70	130
Cyclohexane	1	16.8858	0	20	84	70	130
1,2-Dichloroethane	1	17.7065	0	20	89	70	130
2-Butanone	1	15.7642	0	20	79	50	150
1,1,1-Trichloroethane	1	17.1944	0	20	86	70	130
Carbon Tetrachloride	1	16.9665	0	20	85	50	150
Vinyl Acetate	1	15.8312	0	20	79	50	150
Bromodichloromethane	1	16.9502	0	20	85	70	130
Methylcyclohexane	1	17.7027	0	20	89	70	130
Dibromomethane	1	16.1998	0	20	81	70	130
1,2-Dichloropropane	1	17.4076	0	20	87	70	130
Trichloroethene	1	16.1458	0	20	81	70	130
Benzene	1	17.5826	0	20	88	70	130
tert-Amyl methyl ether	1	15.9818	0	20	80	70	130
Iso-propylacetate	1	15.1357	0	20	76	70	130
Methyl methacrylate	1	15.4709	0	20	77	70	130
Dibromochloromethane	1	16.1611	0	20	81	70	130
2-Chloroethylvinylether	1	16.9189	0	20	85	70	130
cis-1,3-Dichloropropene	1	16.3561	0	20	82	70	130
trans-1,3-Dichloropropene	1	15.8014	0	20	79	70	130
Ethyl methacrylate	1	16.5589	0	20	83	70	130
1,1,2-Trichloroethane	1	17.6778	0	20	88	70	130
1,2-Dibromoethane	1	17.2679	0	20	86	70	130
1,3-Dichloropropane	1	17.723	0	20	89	70	130
4-Methyl-2-Pentanone	1	15.8961	0	20	79	50	150
2-Hexanone	1	16.0416	0	20	80	50	150
Tetrachloroethene	1	16.3818	0	20	82	50	150
Toluene	1	17.2266	0	20	86	70	130
1,1,1,2-Tetrachloroethane	1	16.5763	0	20	83	70	130
Chlorobenzene	1	17.4168	0	20	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105230

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	16.3871	0	20	82	70	130
n-Amyl acetate	1	16.8941	0	20	84	70	130
Bromoform	**1**	**15.2232**	**0**	**20**	**76**	**70**	**130**
Ethylbenzene	**1**	**18.0934**	**0**	**20**	**90**	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**18.7602**	**0**	**20**	**94**	**70**	**130**
Styrene	**1**	**18.224**	**0**	**20**	**91**	**70**	**130**
m&p-Xylenes	**1**	**37.5034**	**0**	**40**	**94**	**70**	**130**
o-Xylene	**1**	**18.4011**	**0**	**20**	**92**	**70**	**130**
trans-1,4-Dichloro-2-butene	1	16.9034	0	20	85	50	150
1,3-Dichlorobenzene	**1**	**18.1572**	**0**	**20**	**91**	**70**	**130**
1,4-Dichlorobenzene	**1**	**17.7715**	**0**	**20**	**89**	**70**	**130**
1,2-Dichlorobenzene	**1**	**17.4882**	**0**	**20**	**87**	**70**	**130**
Isopropylbenzene	**1**	**18.6023**	**0**	**20**	**93**	**70**	**130**
Cyclohexanone	1	58.4965	0	100	58	50	150
Camphene	1	18.4768	0	20	92	70	130
1,2,3-Trichloropropane	1	17.2725	0	20	86	70	130
2-Chlorotoluene	1	18.5717	0	20	93	70	130
p-Ethyltoluene	1	18.2917	0	20	91	70	130
4-Chlorotoluene	1	18.8996	0	20	94	70	130
n-Propylbenzene	1	19.1246	0	20	96	70	130
Bromobenzene	1	18.4015	0	20	92	70	130
1,3,5-Trimethylbenzene	1	19.8488	0	20	99	70	130
Butyl methacrylate	1	17.5971	0	20	88	70	130
t-Butylbenzene	1	17.8186	0	20	89	70	130
1,2,4-Trimethylbenzene	1	18.716	0	20	94	70	130
sec-Butylbenzene	1	18.5017	0	20	93	70	130
4-Isopropyltoluene	1	18.1628	0	20	91	70	130
n-Butylbenzene	1	18.6882	0	20	93	70	130
p-Diethylbenzene	1	17.9681	0	20	90	70	130
1,2,4,5-Tetramethylbenzene	1	17.2663	0	20	86	70	130
1,2-Dibromo-3-Chloropropane	**1**	**14.632**	**0**	**20**	**73**	**50**	**150**
Camphor	1	150.4545	0	200	75	20	150
Hexachlorobutadiene	1	14.2822	0	20	71	50	150
1,2,4-Trichlorobenzene	**1**	**15.7858**	**0**	**20**	**79**	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**15.6744**	**0**	**20**	**78**	**70**	**130**
Naphthalene	1	16.6983	0	20	83	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105230

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M176215.D	AD34419-005(50X)(T:MS)	11/15/2022 2:21:00 PM
Non Spike(If applicable):	2M176217.D	AD34419-005(50X)(T)	11/15/2022 3:01:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	0	20	0*	50	150
Dichlorodifluoromethane	1	0	0	20	0*	50	150
Chloromethane	1	0	0	20	0*	50	150
Bromomethane	1	0	0	20	0*	50	150
Vinyl Chloride	1	0	0	20	0*	50	150
Chloroethane	1	0	0	20	0*	50	150
Trichlorofluoromethane	1	0	0	20	0*	50	150
Ethyl ether	1	0	0	20	0*	50	150
Furan	1	0	0	20	0*	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	50	150
Methylene Chloride	1	0	0	20	0*	70	130
Acrolein	1	0	0	100	0*	50	150
Acrylonitrile	1	0	0	20	0*	50	150
Iodomethane	1	0	0	20	0*	50	150
Acetone	1	0	0	100	0*	50	150
Carbon Disulfide	1	0	0	20	0*	50	150
t-Butyl Alcohol	1	0	0	100	0*	50	150
n-Hexane	1	0	0	20	0*	70	130
Di-isopropyl-ether	1	0	0	20	0*	70	130
1,1-Dichloroethene	1	0	0	20	0*	70	130
Methyl Acetate	1	0	0	20	0*	50	150
Methyl-t-butyl ether	1	0	0	20	0*	70	130
1,1-Dichloroethane	1	0	0	20	0*	70	130
trans-1,2-Dichloroethene	1	0	0	20	0*	70	130
Ethyl-t-butyl ether	1	0	0	20	0*	70	130
cis-1,2-Dichloroethene	1	0	0	20	0*	70	130
Bromochloromethane	1	0	0	20	0*	70	130
2,2-Dichloropropane	1	0	0	20	0*	70	130
Ethyl acetate	1	0	0	20	0*	50	150
1,4-Dioxane	1	0	0	1000	0*	50	150
1,1-Dichloropropene	1	0	0	20	0*	70	130
Chloroform	1	0	0	20	0*	70	130
Cyclohexane	1	0	0	20	0*	70	130
1,2-Dichloroethane	1	0	0	20	0*	70	130
2-Butanone	1	0	0	20	0*	50	150
1,1,1-Trichloroethane	1	0	0	20	0*	70	130
Carbon Tetrachloride	1	0	0	20	0*	50	150
Vinyl Acetate	1	0	0	20	0*	50	150
Bromodichloromethane	1	0	0	20	0*	70	130
Methylcyclohexane	1	0	0	20	0*	70	130
Dibromomethane	1	0	0	20	0*	70	130
1,2-Dichloropropane	1	0	0	20	0*	70	130
Trichloroethene	1	0	0	20	0*	70	130
Benzene	1	0	0	20	0*	70	130
tert-Amyl methyl ether	1	0	0	20	0*	70	130
Iso-propylacetate	1	0	0	20	0*	70	130
Methyl methacrylate	1	0	0	20	0*	70	130
Dibromochloromethane	1	0	0	20	0*	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	0	0	20	0*	70	130
trans-1,3-Dichloropropene	1	0	0	20	0*	70	130
Ethyl methacrylate	1	0	0	20	0*	70	130
1,1,2-Trichloroethane	1	0	0	20	0*	70	130
1,2-Dibromoethane	1	0	0	20	0*	70	130
1,3-Dichloropropane	1	0	0	20	0*	70	130
4-Methyl-2-Pentanone	1	0	0	20	0*	50	150
2-Hexanone	1	0	0	20	0*	50	150
Tetrachloroethene	1	0	0	20	0*	50	150
Toluene	1	0	0	20	0*	70	130
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	70	130
Chlorobenzene	1	0	0	20	0*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105230

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	20	0*	70	130
n-Amyl acetate	1	0	0	20	0*	70	130
Bromoform	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Ethylbenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Styrene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
m&p-Xylenes	**1**	**0**	**0**	**40**	**0***	**70**	**130**
o-Xylene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	50	150
1,3-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,4-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,2-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Cyclohexanone	1	0	0	100	0*	50	150
Camphene	1	0	0	20	0*	70	130
1,2,3-Trichloropropane	1	0	0	20	0*	70	130
2-Chlorotoluene	1	0	0	20	0*	70	130
p-Ethyltoluene	1	0	0	20	0*	70	130
4-Chlorotoluene	1	0	0	20	0*	70	130
n-Propylbenzene	1	0	0	20	0*	70	130
Bromobenzene	1	0	0	20	0*	70	130
1,3,5-Trimethylbenzene	1	0	0	20	0*	70	130
Butyl methacrylate	1	0	0	20	0*	70	130
t-Butylbenzene	1	0	0	20	0*	70	130
1,2,4-Trimethylbenzene	1	0	0	20	0*	70	130
sec-Butylbenzene	1	0	0	20	0*	70	130
4-Isopropyltoluene	1	0	0	20	0*	70	130
n-Butylbenzene	1	0	0	20	0*	70	130
p-Diethylbenzene	1	0	0	20	0*	70	130
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	70	130
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**20**	**0***	**50**	**150**
Camphor	1	0	0	200	0*	20	150
Hexachlorobutadiene	1	0	0	20	0*	50	150
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Naphthalene	1	0	0	20	0*	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105230

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M176216.D	AD34419-005(50X)(T:MSD)	11/15/2022 2:41:00 PM
Non Spike(If applicable):	2M176217.D	AD34419-005(50X)(T)	11/15/2022 3:01:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	0	0	20	0*	50	150
Dichlorodifluoromethane	1	0	0	20	0*	50	150
Chloromethane	1	0	0	20	0*	50	150
Bromomethane	1	0	0	20	0*	50	150
Vinyl Chloride	1	0	0	20	0*	50	150
Chloroethane	1	0	0	20	0*	50	150
Trichlorofluoromethane	1	0	0	20	0*	50	150
Ethyl ether	1	0	0	20	0*	50	150
Furan	1	0	0	20	0*	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	20	0*	50	150
Methylene Chloride	1	0	0	20	0*	70	130
Acrolein	1	0	0	100	0*	50	150
Acrylonitrile	1	0	0	20	0*	50	150
Iodomethane	1	0	0	20	0*	50	150
Acetone	1	0	0	100	0*	50	150
Carbon Disulfide	1	0	0	20	0*	50	150
t-Butyl Alcohol	1	0	0	100	0*	50	150
n-Hexane	1	0	0	20	0*	70	130
Di-isopropyl-ether	1	0	0	20	0*	70	130
1,1-Dichloroethene	1	0	0	20	0*	70	130
Methyl Acetate	1	0	0	20	0*	50	150
Methyl-t-butyl ether	1	0	0	20	0*	70	130
1,1-Dichloroethane	1	0	0	20	0*	70	130
trans-1,2-Dichloroethene	1	0	0	20	0*	70	130
Ethyl-t-butyl ether	1	0	0	20	0*	70	130
cis-1,2-Dichloroethene	1	0	0	20	0*	70	130
Bromochloromethane	1	0	0	20	0*	70	130
2,2-Dichloropropane	1	0	0	20	0*	70	130
Ethyl acetate	1	0	0	20	0*	50	150
1,4-Dioxane	1	0	0	1000	0*	50	150
1,1-Dichloropropene	1	0	0	20	0*	70	130
Chloroform	1	0	0	20	0*	70	130
Cyclohexane	1	0	0	20	0*	70	130
1,2-Dichloroethane	1	0	0	20	0*	70	130
2-Butanone	1	0	0	20	0*	50	150
1,1,1-Trichloroethane	1	0	0	20	0*	70	130
Carbon Tetrachloride	1	0	0	20	0*	50	150
Vinyl Acetate	1	0	0	20	0*	50	150
Bromodichloromethane	1	0	0	20	0*	70	130
Methylcyclohexane	1	0	0	20	0*	70	130
Dibromomethane	1	0	0	20	0*	70	130
1,2-Dichloropropane	1	0	0	20	0*	70	130
Trichloroethene	1	0	0	20	0*	70	130
Benzene	1	0	0	20	0*	70	130
tert-Amyl methyl ether	1	0	0	20	0*	70	130
Iso-propylacetate	1	0	0	20	0*	70	130
Methyl methacrylate	1	0	0	20	0*	70	130
Dibromochloromethane	1	0	0	20	0*	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	0	0	20	0*	70	130
trans-1,3-Dichloropropene	1	0	0	20	0*	70	130
Ethyl methacrylate	1	0	0	20	0*	70	130
1,1,2-Trichloroethane	1	0	0	20	0*	70	130
1,2-Dibromoethane	1	0	0	20	0*	70	130
1,3-Dichloropropane	1	0	0	20	0*	70	130
4-Methyl-2-Pentanone	1	0	0	20	0*	50	150
2-Hexanone	1	0	0	20	0*	50	150
Tetrachloroethene	1	0	0	20	0*	50	150
Toluene	1	0	0	20	0*	70	130
1,1,1,2-Tetrachloroethane	1	0	0	20	0*	70	130
Chlorobenzene	1	0	0	20	0*	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105230

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
n-Butyl acrylate	1	0	0	20	0*	70	130
n-Amyl acetate	1	0	0	20	0*	70	130
Bromoform	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Ethylbenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Styrene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
m&p-Xylenes	**1**	**0**	**0**	**40**	**0***	**70**	**130**
o-Xylene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
trans-1,4-Dichloro-2-butene	1	0	0	20	0*	50	150
1,3-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,4-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,2-Dichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Isopropylbenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Cyclohexanone	1	0	0	100	0*	50	150
Camphene	1	0	0	20	0*	70	130
1,2,3-Trichloropropane	1	0	0	20	0*	70	130
2-Chlorotoluene	1	0	0	20	0*	70	130
p-Ethyltoluene	1	0	0	20	0*	70	130
4-Chlorotoluene	1	0	0	20	0*	70	130
n-Propylbenzene	1	0	0	20	0*	70	130
Bromobenzene	1	0	0	20	0*	70	130
1,3,5-Trimethylbenzene	1	0	0	20	0*	70	130
Butyl methacrylate	1	0	0	20	0*	70	130
t-Butylbenzene	1	0	0	20	0*	70	130
1,2,4-Trimethylbenzene	1	0	0	20	0*	70	130
sec-Butylbenzene	1	0	0	20	0*	70	130
4-Isopropyltoluene	1	0	0	20	0*	70	130
n-Butylbenzene	1	0	0	20	0*	70	130
p-Diethylbenzene	1	0	0	20	0*	70	130
1,2,4,5-Tetramethylbenzene	1	0	0	20	0*	70	130
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**20**	**0***	**50**	**150**
Camphor	1	0	0	200	0*	20	150
Hexachlorobutadiene	1	0	0	20	0*	50	150
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
1,2,3-Trichlorobenzene	**1**	**0**	**0**	**20**	**0***	**70**	**130**
Naphthalene	1	0	0	20	0*	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105230

	Data File	Sample ID:	Analysis Date
Spike or Dup:	2M176216.D	AD34419-005(50X)(T:MSD)	11/15/2022 2:41:00 PM
Duplicate(If applicable):	2M176215.D	AD34419-005(50X)(T:MS)	11/15/2022 2:21:00 PM
Inst Blank(If applicable):			

Method: 8260D Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	0	0	NA	30
Dichlorodifluoromethane	1	0	0	NA	30
Chloromethane	1	0	0	NA	30
Bromomethane	1	0	0	NA	30
Vinyl Chloride	1	0	0	NA	40
Chloroethane	1	0	0	NA	30
Trichlorofluoromethane	1	0	0	NA	30
Ethyl ether	1	0	0	NA	30
Furan	1	0	0	NA	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	0	0	NA	30
Methylene Chloride	1	0	0	NA	30
Acrolein	1	0	0	NA	30
Acrylonitrile	1	0	0	NA	30
Iodomethane	1	0	0	NA	30
Acetone	1	0	0	NA	30
Carbon Disulfide	1	0	0	NA	30
t-Butyl Alcohol	1	0	0	NA	30
n-Hexane	1	0	0	NA	30
Di-isopropyl-ether	1	0	0	NA	30
1,1-Dichloroethene	1	0	0	NA	40
Methyl Acetate	1	0	0	NA	30
Methyl-t-butyl ether	1	0	0	NA	30
1,1-Dichloroethane	1	0	0	NA	40
trans-1,2-Dichloroethene	1	0	0	NA	30
Ethyl-t-butyl ether	1	0	0	NA	30
cis-1,2-Dichloroethene	1	0	0	NA	30
Bromochloromethane	1	0	0	NA	30
2,2-Dichloropropane	1	0	0	NA	30
Ethyl acetate	1	0	0	NA	30
1,4-Dioxane	1	0	0	NA	30
1,1-Dichloropropene	1	0	0	NA	30
Chloroform	1	0	0	NA	40
Cyclohexane	1	0	0	NA	30
1,2-Dichloroethane	1	0	0	NA	40
2-Butanone	1	0	0	NA	40
1,1,1-Trichloroethane	1	0	0	NA	30
Carbon Tetrachloride	1	0	0	NA	40
Vinyl Acetate	1	0	0	NA	30
Bromodichloromethane	1	0	0	NA	30
Methylcyclohexane	1	0	0	NA	30
Dibromomethane	1	0	0	NA	30
1,2-Dichloropropane	1	0	0	NA	30
Trichloroethene	1	0	0	NA	40
Benzene	1	0	0	NA	40
tert-Amyl methyl ether	1	0	0	NA	30
Iso-propylacetate	1	0	0	NA	30
Methyl methacrylate	1	0	0	NA	30
Dibromochloromethane	1	0	0	NA	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	0	0	NA	30
trans-1,3-Dichloropropene	1	0	0	NA	30
Ethyl methacrylate	1	0	0	NA	30
1,1,2-Trichloroethane	1	0	0	NA	30
1,2-Dibromoethane	1	0	0	NA	30
1,3-Dichloropropane	1	0	0	NA	30
4-Methyl-2-Pentanone	1	0	0	NA	30
2-Hexanone	1	0	0	NA	30
Tetrachloroethene	1	0	0	NA	40
Toluene	1	0	0	NA	40
1,1,1,2-Tetrachloroethane	1	0	0	NA	30
Chlorobenzene	1	0	0	NA	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105230

Method: 8260D | Matrix: Aqueous | Units: ug/L | QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
n-Butyl acrylate	1	0	0	NA	30
n-Amyl acetate	1	0	0	NA	30
Bromoform	**1**	**0**	**0**	**NA**	**30**
Ethylbenzene	**1**	**0**	**0**	**NA**	**30**
1,1,2,2-Tetrachloroethane	**1**	**0**	**0**	**NA**	**30**
Styrene	**1**	**0**	**0**	**NA**	**30**
m&p-Xylenes	**1**	**0**	**0**	**NA**	**30**
o-Xylene	**1**	**0**	**0**	**NA**	**30**
trans-1,4-Dichloro-2-butene	1	0	0	NA	30
1,3-Dichlorobenzene	**1**	**0**	**0**	**NA**	**30**
1,4-Dichlorobenzene	**1**	**0**	**0**	**NA**	**40**
1,2-Dichlorobenzene	**1**	**0**	**0**	**NA**	**40**
Isopropylbenzene	**1**	**0**	**0**	**NA**	**30**
Cyclohexanone	1	0	0	NA	30
Camphene	1	0	0	NA	30
1,2,3-Trichloropropane	1	0	0	NA	30
2-Chlorotoluene	1	0	0	NA	30
p-Ethyltoluene	1	0	0	NA	30
4-Chlorotoluene	1	0	0	NA	30
n-Propylbenzene	1	0	0	NA	40
Bromobenzene	1	0	0	NA	30
1,3,5-Trimethylbenzene	1	0	0	NA	30
Butyl methacrylate	1	0	0	NA	30
t-Butylbenzene	1	0	0	NA	30
1,2,4-Trimethylbenzene	1	0	0	NA	30
sec-Butylbenzene	1	0	0	NA	40
4-Isopropyltoluene	1	0	0	NA	30
n-Butylbenzene	1	0	0	NA	30
p-Diethylbenzene	1	0	0	NA	30
1,2,4,5-Tetramethylbenzene	1	0	0	NA	30
1,2-Dibromo-3-Chloropropane	**1**	**0**	**0**	**NA**	**30**
Camphor	1	0	0	NA	30
Hexachlorobutadiene	1	0	0	NA	30
1,2,4-Trichlorobenzene	**1**	**0**	**0**	**NA**	**30**
1,2,3-Trichlorobenzene	**1**	**0**	**0**	**NA**	**30**
Naphthalene	1	0	0	NA	30

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 2M176211.D
Matrix: Aqueous

Blank Analysis Date: 11/15/22 13:02
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260D

Sample Number	Data File	Analysis Date
AD34533-001	2M176234.D	11/15/22 20:36
AD34533-002	2M176232.D	11/15/22 19:57
AD34419-005(50X)	2M176217.D	11/15/22 15:01
AD34419-005(50X)	2M176216.D	11/15/22 14:41
AD34419-005(50X)	2M176215.D	11/15/22 14:21
MBS105230	2M176213.D	11/15/22 13:42

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M175242.D
Analysis Date: 10/25/22 13:02
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.354 to 7.366 min

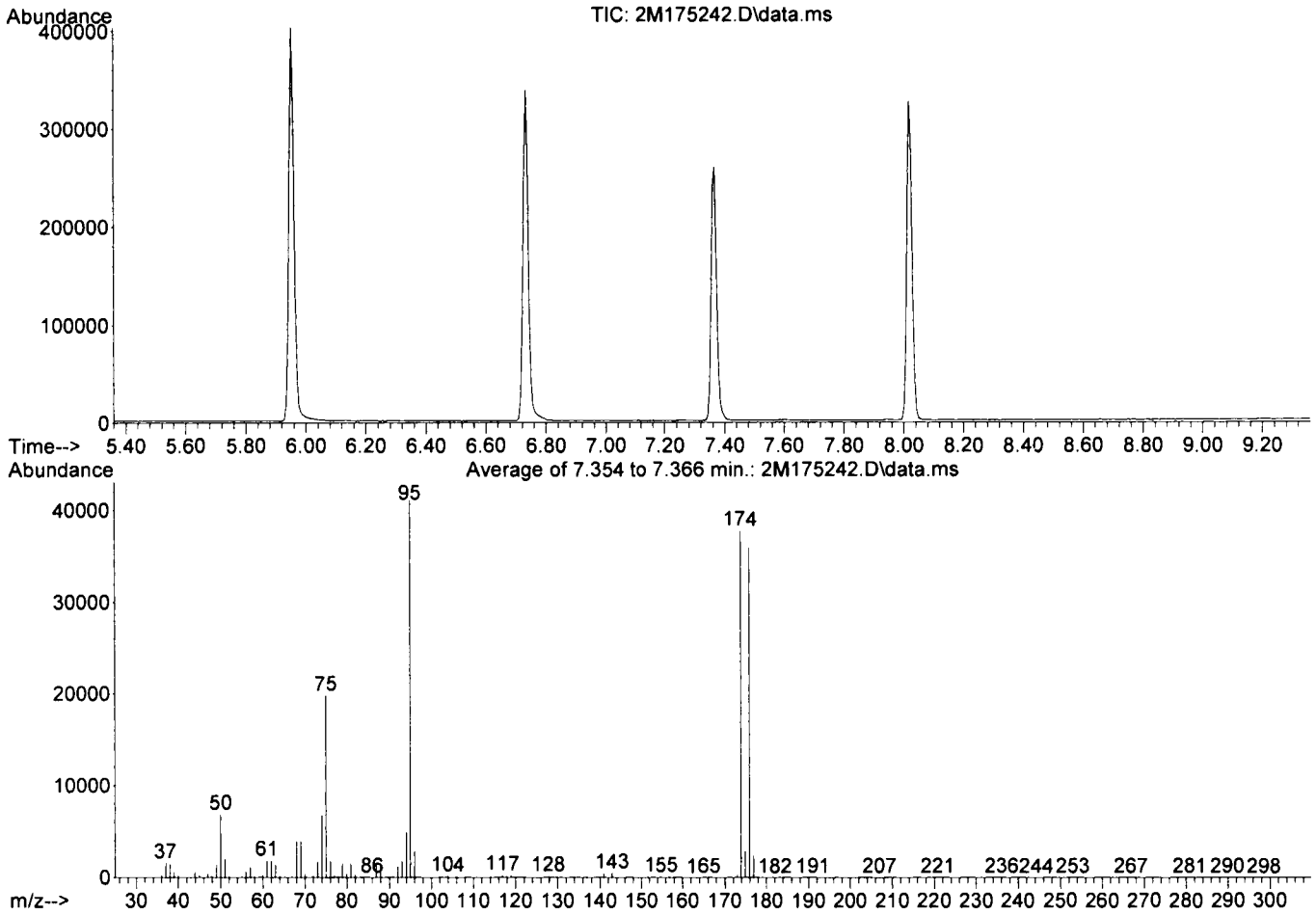
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	16.7	6878	PASS
75	95	30	60	48.3	19854	PASS
95	95	100	100	100.0	41131	PASS
96	95	5	9	7.0	2879	PASS
173	174	0.00	2	0.9	330	PASS
174	95	50	100	91.8	37760	PASS
175	174	5	9	7.7	2912	PASS
176	174	95	101	95.2	35963	PASS
177	176	5	9	6.7	2427	PASS

Data File	Sample Number	Analysis Date:
2M175245.D	CAL @ 0.5 PPB	10/25/22 14:01
2M175246.D	CAL @ 1 PPB	10/25/22 14:20
2M175249.D	CAL @ 5 PPB	10/25/22 15:20
2M175251.D	CAL @ 10 PPB	10/25/22 15:59
2M175253.D	CAL @ 20 PPB	10/25/22 16:39
2M175255.D	CAL @ 50 PPB	10/25/22 17:18
2M175258.D	CAL @ 100 PPB	10/25/22 18:18
2M175262.D	CAL @ 250 PPB	10/25/22 19:37
2M175266.D	CAL @ 500 PPB	10/25/22 22:00
2M175270.D	BLK	10/25/22 23:20
2M175272.D	STD	10/25/22 23:59
2M175274.D	ICV	10/26/22 00:39

Data Path : G:\GcMsData\2022\GCMS_2\Data\10-25-22\
Data File : 2M175242.D
Acq On : 25 Oct 2022 13:02
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_2\MethodQt\2M_A1025.M
Title : @GCMS_2,ug,624,8260
Last Update : Tue Oct 25 22:21:46 2022



Spectrum Information: Average of 7.354 to 7.366 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	6878	PASS
75	95	30	60	48.3	19854	PASS
95	95	100	100	100.0	41131	PASS
96	95	5	9	7.0	2879	PASS
173	174	0.00	2	0.9	330	PASS
174	95	50	100	91.8	37760	PASS
175	174	5	9	7.7	2912	PASS
176	174	95	101	95.2	35963	PASS
177	176	5	9	6.7	2427	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 2
Data File: 2M176205.D
Analysis Date: 11/15/22 11:08
Method: EPA 8260D

Tune Scan/Time Range: Average of 7.348 to 7.373 min

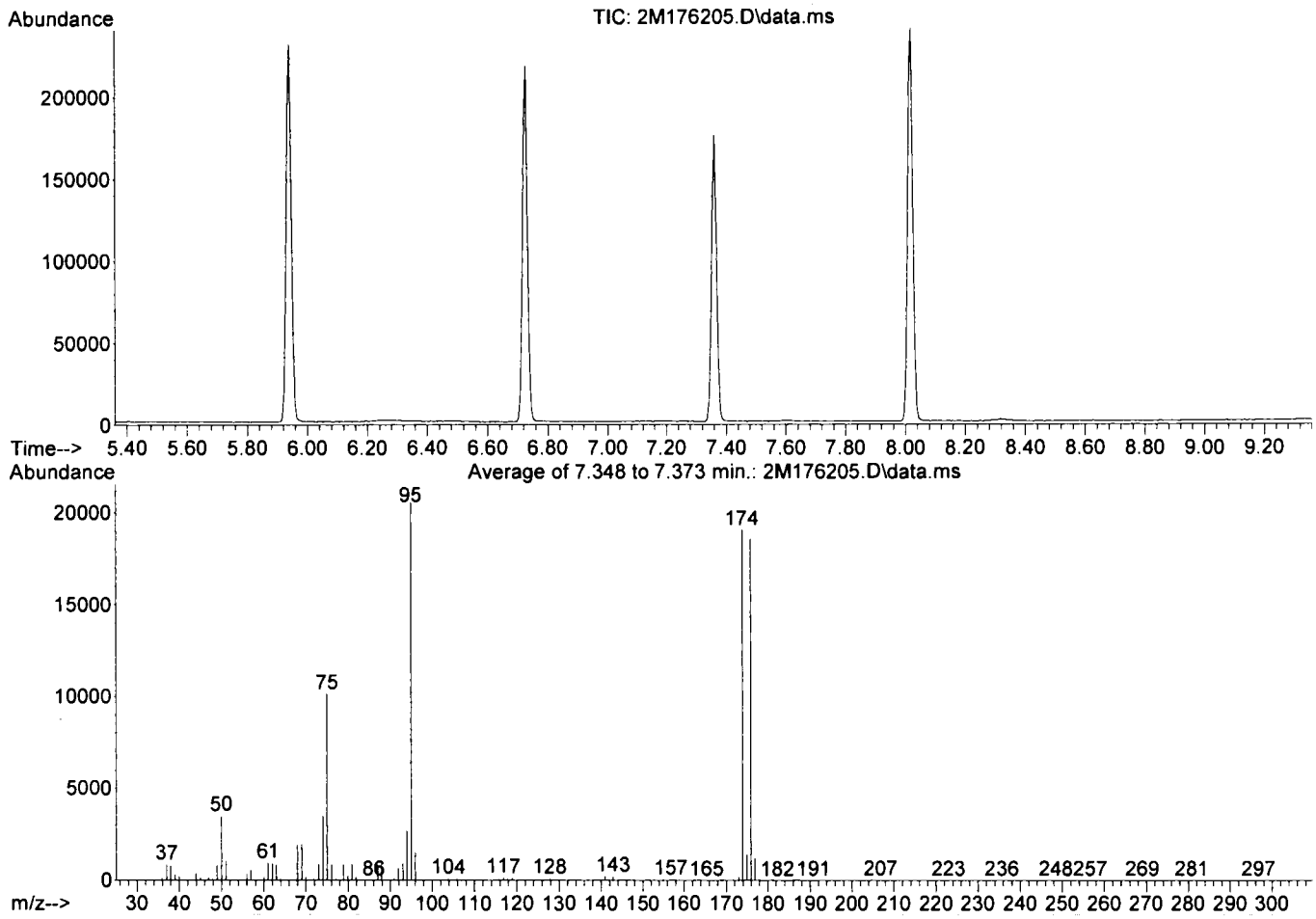
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	17.0	3504	PASS
75	95	30	60	49.3	10143	PASS
95	95	100	100	100.0	20558	PASS
96	95	5	9	7.5	1542	PASS
173	174	0.00	2	1.0	187	PASS
174	95	50	100	92.7	19051	PASS
175	174	5	9	7.3	1395	PASS
176	174	95	101	97.5	18583	PASS
177	176	5	9	6.5	1206	PASS

Data File	Sample Number	Analysis Date:
2M176207.D	CAL @ 20 PPB	11/15/22 11:43
2M176210.D	DAILY BLANK	11/15/22 12:42
2M176211.D	DAILY BLANK	11/15/22 13:02
2M176212.D	AD34508-001	11/15/22 13:22
2M176213.D	MBS105230	11/15/22 13:42
2M176214.D	MBS105231	11/15/22 14:01
2M176215.D	AD34419-005(50X)	11/15/22 14:21
2M176216.D	AD34419-005(50X)	11/15/22 14:41
2M176217.D	AD34419-005(50X)	11/15/22 15:01
2M176218.D	AD34520-010	11/15/22 15:20
2M176219.D	AD34520-013	11/15/22 15:40
2M176220.D	AD34525-004	11/15/22 16:00
2M176221.D	AD34534-002	11/15/22 16:20
2M176222.D	AD34534-001	11/15/22 16:39
2M176223.D	AD34520-001	11/15/22 16:59
2M176224.D	AD34520-003	11/15/22 17:19
2M176225.D	AD34520-005	11/15/22 17:39
2M176226.D	AD34520-006	11/15/22 17:58
2M176227.D	AD34520-008	11/15/22 18:18
2M176228.D	AD34520-011	11/15/22 18:38
2M176229.D	AD34525-001	11/15/22 18:57
2M176230.D	AD34525-002	11/15/22 19:17
2M176231.D	AD34532-001	11/15/22 19:37
2M176232.D	AD34533-002	11/15/22 19:57
2M176233.D	BLK	11/15/22 20:16
2M176234.D	AD34533-001	11/15/22 20:36
2M176235.D	BLK	11/15/22 20:56
2M176236.D	AD34525-002	11/15/22 21:16
2M176237.D	AD34516-002	11/15/22 21:35
2M176238.D	AD34516-001	11/15/22 21:55
2M176239.D	BLK	11/15/22 22:15
2M176240.D	AD34525-001	11/15/22 22:35

Data Path : G:\GcMsData\2022\GCMS_2\Data\11-15-22\
Data File : 2M176205.D
Acq On : 15 Nov 2022 11:08
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2022\GCMS_2\MethodQt\2M_A1025.M
Title : @GCMS_2,ug,624,8260
Last Update : Tue Oct 25 22:21:46 2022



Spectrum Information: Average of 7.348 to 7.373 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	3504	PASS
75	95	30	60	49.3	10143	PASS
95	95	100	100	100.0	20558	PASS
96	95	5	9	7.5	1542	PASS
173	174	0.00	2	1.0	187	PASS
174	95	50	100	92.7	19051	PASS
175	174	5	9	7.3	1395	PASS
176	174	95	101	97.5	18583	PASS
177	176	5	9	6.5	1206	PASS

2111513 0039

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	2M175253.D	CAL @ 20 PPB	10/25/22 16:39	2	2M175249.D	CAL @ 5 PPB	10/25/22 15:20
3	2M175251.D	CAL @ 10 PPB	10/25/22 15:59	4	2M175255.D	CAL @ 50 PPB	10/25/22 17:18
5	2M175258.D	CAL @ 100 PPB	10/25/22 18:18	6	2M175262.D	CAL @ 250 PPB	10/25/22 19:37
7	2M175266.D	CAL @ 500 PPB	10/25/22 22:00	8	2M175246.D	CAL @ 1 PPB	10/25/22 14:20
9	2M175245.D	CAL @ 0.5 PPB	10/25/22 14:01				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.2385	0.2404	0.2560	0.2705	0.2789	0.2816	0.2936	0.2356	-----	0.262	1.70	1.00	1.00	8.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.2624	0.2559	0.2707	0.2921	0.3050	0.3049	0.3152	0.2636	-----	0.284	1.68	1.00	1.00	8.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1738	0.1688	0.1840	0.1917	0.1940	0.1933	0.2111	0.2021	-----	0.190	1.86	0.998	1.00	7.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Qua	0.0776	0.0728	0.0785	0.0971	0.1279	0.1856	----	0.0950	-----	0.105	2.25	0.982	1.00	38	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Vinyl Chloride	1	0	Avg	0.2229	0.2261	0.2384	0.2465	0.2531	0.2572	0.2681	0.2409	-----	0.244	1.95	1.00	1.00	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1434	0.1479	0.1565	0.1571	0.1607	0.1661	0.1799	0.1571	-----	0.159	2.34	0.999	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.3813	0.3999	0.4203	0.4342	0.4495	0.4575	0.4743	0.4231	-----	0.430	2.56	1.00	1.00	7.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1726	0.1705	0.1773	0.1800	0.1844	0.1857	0.2008	0.1878	-----	0.182	2.79	0.999	1.00	5.3	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.2793	0.2734	0.2987	0.3000	0.3033	0.3009	0.3097	0.3419	-----	0.301	2.84	1.00	1.00	6.9	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1736	0.1870	0.1998	0.1988	0.2068	0.2053	0.2111	0.1975	-----	0.198	3.00	1.00	1.00	6.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2201	0.2292	0.2335	0.2364	0.2373	0.2347	0.2380	0.2452	-----	0.234	3.41	1.00	1.00	3.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0446	0.0450	0.0460	0.0471	0.0493	0.0493	0.0485	0.0472	-----	0.0472	2.92	1.00	1.00	3.9		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0929	0.0875	0.0934	0.0963	0.1013	0.1005	0.1000	0.0852	-----	0.0947	3.62	1.00	1.00	6.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Qua	0.2351	0.1946	0.2267	0.2983	0.3118	0.3254	0.3195	0.1805	-----	0.262	3.15	0.998	0.998	23		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0675	0.0686	0.0666	0.0725	0.0725	0.0713	0.0702	0.0883	-----	0.0722	3.04	1.00	1.00	9.5	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.5301	0.5362	0.5561	0.5924	0.6009	0.6081	0.6237	0.5925	-----	0.580	3.21	1.00	1.00	6.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0276	0.0270	0.0282	0.0293	0.0313	0.0311	0.0309	0.0298	-----	0.0294	3.48	1.00	1.00	5.6		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1611	0.1760	0.1804	0.1839	0.1895	0.1839	0.1840	0.1830	-----	0.180	3.87	1.00	1.00	4.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.5327	0.5413	0.5635	0.5700	0.5733	0.5640	0.5633	0.5396	-----	0.556	4.03	1.00	1.00	2.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.2719	0.2808	0.3058	0.3054	0.3122	0.3059	0.3136	0.3016	-----	0.300	3.00	1.00	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.2026	0.2077	0.2090	0.2150	0.2267	0.2220	0.2223	0.2508	-----	0.220	3.31	1.00	1.00	6.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.5947	0.6008	0.6182	0.6357	0.6424	0.6379	0.6408	0.6054	0.6079	0.620	3.64	1.00	1.00	3.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3510	0.3607	0.3719	0.3778	0.3781	0.3744	0.3809	0.3635	-----	0.370	4.00	1.00	1.00	2.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2298	0.2282	0.2441	0.2498	0.2513	0.2489	0.2557	0.2505	-----	0.245	3.65	1.00	1.00	4.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.5530	0.5526	0.5846	0.5898	0.5966	0.5919	0.5948	0.5587	-----	0.578	4.29	1.00	1.00	3.4	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3425	0.3503	0.3706	0.3685	0.3676	0.3613	0.3661	0.3754	-----	0.363	4.41	1.00	1.00	3.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1535	0.1576	0.1670	0.1638	0.1628	0.1563	0.1522	0.1651	-----	0.160	4.56	1.00	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3049	0.3256	0.3342	0.3392	0.3318	0.3197	0.3131	0.3419	-----	0.326	4.41	1.00	1.00	4.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2318	0.2222	0.2123	0.2395	0.2449	0.2372	0.2352	0.2814	-----	0.238	4.43	1.00	1.00	8.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0040	0.0041	0.0041	0.0042	0.0043	0.0042	0.0043	0.0041	-----	0.00420	5.49	1.00	1.00	3.1		1000.	250.0	500.0	2500.	5000.	12500	25000	50.00	
1,1-Dichloropropene	1	0	Avg	0.2706	0.2924	0.3011	0.3006	0.3027	0.2978	0.3018	0.2895	-----	0.295	4.82	1.00	1.00	3.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.3900	0.3969	0.4204	0.4185	0.4177	0.4146	0.4199	0.4067	-----	0.411	4.60	1.00	1.00	2.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2758	0.2800	0.2777	0.2751	0.2843	0.2849	0.2814	0.2726	0.2772	0.279	4.70	-1	-1	1.5		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2286	0.2438	0.2603	0.2592	0.2647	0.2630	0.2648	0.2582	-----	0.255	4.77	1.00	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1306	0.1293	0.1300	0.1286	0.1322	0.1294	0.1313	0.1288	0.1309	0.130	4.90	-1	-1	0.93		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2787	0.2951	0.2946	0.2947	0.2942	0.2939	0.3117	0.2930	0.3200	0.297	4.95	0.999	1.00	4.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.0922	0.0834	0.0913	0.1046	0.1096	0.1098	0.1076	0.0928	-----	0.0990	4.41	1.00	1.00	10	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3574	0.3636	0.3870	0.3976	0.4001	0.3977	0.4035	0.3726	-----	0.385	4.73	1.00	1.00	4.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.3198	0.3305	0.3508	0.3609	0.3705	0.3658	0.3782	0.3270	-----	0.350	4.83	1.00	1.00	6.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.5238	0.5401	0.5479	0.5454	0.5790	0.5729	0.5710	0.5395	-----	0.552	4.02	1.00	1.00	3.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.2950	0.2994	0.3095	0.3247	0.3261	0.3248	0.3301	0.3136	-----	0.315	5.57	1.00	1.00	4.2	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.304

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8260D

Form 6
Initial Calibration

Instrument: GCMS_2

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	2M175253.D	CAL @ 20 PPB	10/25/22 16:39	2	2M175249.D	CAL @ 5 PPB	10/25/22 15:20
3	2M175251.D	CAL @ 10 PPB	10/25/22 15:59	4	2M175255.D	CAL @ 50 PPB	10/25/22 17:18
5	2M175258.D	CAL @ 100 PPB	10/25/22 18:18	6	2M175262.D	CAL @ 250 PPB	10/25/22 19:37
7	2M175266.D	CAL @ 500 PPB	10/25/22 22:00	8	2M175246.D	CAL @ 1 PPB	10/25/22 14:20
9	2M175245.D	CAL @ 0.5 PPB	10/25/22 14:01				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2305	0.2448	0.2486	0.2619	0.2727	0.2648	0.2726	0.2576	-----	0.257	5.42	1.00	1.00	5.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1848	0.1912	0.1976	0.2028	0.2049	0.2036	0.2067	0.1972	-----	0.199	5.50	1.00	1.00	3.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.1921	0.2029	0.2106	0.2106	0.2122	0.2053	0.2118	0.2003	-----	0.206	5.43	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2739	0.2753	0.3008	0.3022	0.2977	0.2971	0.3037	0.2895	-----	0.293	5.30	1.00	1.00	4.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.8356	0.8383	0.9090	0.8939	0.8914	0.8775	0.9025	0.9011	0.8768	0.881	4.95	1.00	1.00	3.1	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.5799	0.6066	0.6080	0.6179	0.6198	0.6112	0.6153	0.6334	-----	0.612	4.99	1.00	1.00	2.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.5341	0.5234	0.5490	0.5537	0.5621	0.5446	0.5393	0.5368	-----	0.543	4.95	1.00	1.00	2.2	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.2148	0.2280	0.2263	0.2276	0.2731	0.2539	0.2498	0.2351	-----	0.239	5.45	0.999	1.00	7.9	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3343	0.3279	0.3445	0.3717	0.3785	0.3759	0.3796	0.3294	-----	0.355	6.42	1.00	1.00	6.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.1533	0.1523	0.1560	0.1574	0.1575	0.1436	0.1309	0.1518	-----	0.150	5.70	0.997	1.00	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4345	0.4198	0.4637	0.4816	0.4806	0.4702	0.4632	0.4400	-----	0.457	5.80	1.00	1.00	5.0	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3989	0.3907	0.4199	0.4399	0.4447	0.4361	0.4318	0.3914	-----	0.419	6.09	1.00	1.00	5.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.2337	0.2291	0.2452	0.2533	0.2542	0.2448	0.2436	0.2363	-----	0.243	6.10	1.00	1.00	3.7	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2667	0.2667	0.2840	0.2884	0.2887	0.2811	0.2802	0.2688	-----	0.278	6.20	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.3051	0.3004	0.3201	0.3262	0.3293	0.3242	0.3244	0.2955	-----	0.316	6.49	1.00	1.00	4.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4321	0.4302	0.4598	0.4637	0.4562	0.4387	0.4399	0.4484	-----	0.446	6.29	1.00	1.00	2.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.2669	0.2683	0.2714	0.2878	0.2966	0.2877	0.2817	0.2887	-----	0.281	5.87	1.00	1.00	3.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.1997	0.2027	0.1942	0.2113	0.2148	0.2066	0.2014	0.1976	-----	0.204	6.31	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2575	0.2670	0.2829	0.2859	0.2884	0.2816	0.2906	0.2738	-----	0.278	6.29	1.00	1.00	4.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2552	1.2332	1.2382	1.2502	1.2481	1.2274	1.2234	1.2320	1.2271	1.24	5.95	-1	-1	0.92		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6967	0.7118	0.7585	0.7625	0.7559	0.7300	0.7300	0.7497	-----	0.737	5.99	1.00	1.00	3.2	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2980	0.2938	0.3121	0.3215	0.3232	0.3223	0.3385	0.2827	-----	0.312	6.78	0.999	1.00	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.8025	0.8130	0.8742	0.8783	0.8686	0.8493	0.8545	0.8585	-----	0.850	6.75	1.00	1.00	3.3	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.0560	1.0089	1.1022	1.1848	1.1713	1.1821	1.1551	1.0754	-----	1.12	6.99	1.00	1.00	5.9	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.9162	0.8998	0.9358	1.0162	1.0094	1.0104	0.9977	0.9169	-----	0.963	7.11	1.00	1.00	5.2	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.5215	0.4844	0.5289	0.5907	0.5945	0.6149	0.6040	0.5100	-----	0.556	7.20	1.00	1.00	9.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6895	0.7053	0.7251	0.7661	0.7356	0.7598	0.7574	0.7441	-----	0.735	6.79	1.00	1.00	3.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7792	0.7706	0.8218	0.8400	0.8246	0.8203	0.8031	0.8514	-----	0.814	7.42	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8786	0.8623	0.8665	0.8817	0.8782	0.8774	0.8580	0.8640	0.8741	0.871	7.37	-1	-1	0.98		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.7428	1.7583	1.8835	1.9181	1.8554	1.8576	1.9174	1.8520	-----	1.85	7.07	1.00	1.00	3.6	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	1.0307	1.0287	1.1276	1.1227	1.0923	1.0799	1.0900	1.1045	0.9789	1.07	6.85	1.00	1.00	4.6	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.0212	1.0178	1.1171	1.1098	1.0748	1.0737	1.1095	1.0618	-----	1.07	7.07	1.00	1.00	3.6	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2602	0.2522	0.2824	0.2852	0.2892	0.2916	0.2940	0.2843	-----	0.280	7.45	1.00	1.00	5.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.1042	1.1045	1.1975	1.2111	1.1955	1.2077	1.1971	1.2076	-----	1.18	7.99	1.00	1.00	3.9	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.1221	1.1533	1.2406	1.2350	1.2183	1.2278	1.2257	1.2773	-----	1.21	8.04	1.00	1.00	4.1	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.0545	1.0815	1.1327	1.1567	1.1477	1.1586	1.1584	1.1916	-----	1.14	8.26	1.00	1.00	4.0	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.2823	2.3025	2.5010	2.5292	2.4908	2.4664	2.3721	2.5518	-----	2.44	7.26	1.00	1.00	4.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0308	0.0378	0.0354	0.0355	0.0328	0.0308	0.0311	0.0528	-----	0.0359	7.34	1.00	1.00	20		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5427	0.5623	0.5809	0.6111	0.6072	0.6109	0.6113	0.6182	-----	0.593	7.43	1.00	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.9465	0.9311	0.9988	1.0362	1.0301	1.0327	1.0285	0.9524	-----	0.995	7.46	1.00	1.00	4.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.3046	1.3305	1.4800	1.4649	1.4212	1.3983	1.4202	1.4869	-----	1.41	7.56	1.00	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 5.304
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

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Form 6
Initial Calibration

Method: EPA 8260D

Instrument: GCMS_2

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	2M175253.D	CAL @ 20 PPB	10/25/22 16:39	2	2M175249.D	CAL @ 5 PPB	10/25/22 15:20
3	2M175251.D	CAL @ 10 PPB	10/25/22 15:59	4	2M175255.D	CAL @ 50 PPB	10/25/22 17:18
5	2M175258.D	CAL @ 100 PPB	10/25/22 18:18	6	2M175262.D	CAL @ 250 PPB	10/25/22 19:37
7	2M175266.D	CAL @ 500 PPB	10/25/22 22:00	8	2M175246.D	CAL @ 1 PPB	10/25/22 14:20
9	2M175245.D	CAL @ 0.5 PPB	10/25/22 14:01				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.0452	2.0819	2.2183	2.2681	2.4706	2.4477	2.3789	2.1761	-----	2.26	7.55	1.00	1.00	7.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.2819	1.3037	1.3821	1.4207	1.3842	1.3611	1.4277	1.3386	-----	1.36	7.62	1.00	1.00	3.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.4245	2.4217	2.6258	2.6790	2.6269	2.6013	2.4981	2.6118	-----	2.56	7.49	1.00	1.00	3.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.3737	1.3857	1.4927	1.4925	1.4605	1.4627	1.4598	1.5410	-----	1.46	7.46	1.00	1.00	3.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.7127	1.7455	1.8875	1.8829	1.5871	1.6019	1.7587	1.6103	-----	1.72	7.58	0.998	1.00	6.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.5687	0.5705	0.6034	0.6330	0.6159	0.6286	0.6753	0.5818	-----	0.610	7.59	0.999	1.00	6.0	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.6687	1.6942	1.8020	1.8519	1.8303	1.8340	1.8185	1.8381	-----	1.79	7.78	1.00	1.00	3.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.7405	1.7622	1.8879	1.9153	1.8752	1.8716	1.8667	1.8237	-----	1.84	7.80	1.00	1.00	3.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.8930	1.9161	2.0864	2.1329	2.1119	2.1202	2.0857	2.0768	-----	2.05	7.90	1.00	1.00	4.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.6657	1.7039	1.8294	1.8774	1.8498	1.8523	1.8565	1.7789	-----	1.80	7.97	1.00	1.00	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.5687	1.5898	1.7092	1.7657	1.7358	1.7560	1.7789	1.6990	-----	1.70	8.20	1.00	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.9233	0.9188	1.0070	1.0270	1.0253	1.0392	1.0538	1.0141	-----	1.00	8.19	1.00	1.00	5.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.3166	1.2645	1.3977	1.4610	1.4412	1.4842	1.4855	1.4079	-----	1.41	8.65	1.00	1.00	5.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.2123	0.2084	0.2272	0.2478	0.2546	0.2621	0.2577	0.2188	-----	0.236	8.71	1.00	1.00	9.2	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Avg	0.0891	0.0885	0.0895	0.0976	0.1014	0.1011	0.0999	0.0938	0.0785	0.0933	9.14	1.00	1.00	8.1		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.2388	0.2539	0.2465	0.2639	0.2607	0.2769	0.2773	0.2763	-----	0.262	9.28	1.00	1.00	5.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.5529	0.5268	0.5803	0.6125	0.6026	0.6169	0.6045	0.6249	-----	0.590	9.20	1.00	1.00	5.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.4832	0.5016	0.5074	0.5377	0.5276	0.5448	0.5312	0.5463	-----	0.523	9.50	1.00	1.00	4.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.8428	1.8265	1.9271	2.0387	2.0593	2.0605	1.9630	1.9530	-----	1.96	9.36	0.999	1.00	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 5.304
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M176207.D **Instrument:** GCMS 2

Cont Calibration Date/Time 11/15/2022 11:43:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	5.09	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.70	19.59	20	20	0.1	0.262	0.257	2.06	
Dichlorodifluoromethane	1	0		1.68	15.08	20	20	0.1	0.284	0.214	24.60	C1
Chloromethane	1	0		1.86	16.29	20	20	0.1	0.190	0.155	18.57	
Bromomethane	1	0		2.25	17.85	20	20	0.1	0.105	0.081	10.74	
Vinyl Chloride	1	0		1.95	18.17	20	20	0.1	0.244	0.222	9.16	
Chloroethane	1	0		2.34	19.35	20	20	0.1	0.159	0.153	3.27	
Trichlorofluoromethane	1	0		2.56	19.71	20	20	0.1	0.430	0.424	1.43	
Ethyl ether	1	0		2.79	17.88	20	20	0.5	0.182	0.163	10.60	
Furan	1	0		2.84	18.04	20	20	0.5	0.301	0.272	9.78	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		3.00	19.52	20	20	0.1	0.198	0.193	2.40	
Methylene Chloride	1	0		3.41	18.28	20	20	0.1	0.234	0.214	8.59	
Acrolein	1	0		2.92	69.94	100	20		0.047	0.033	30.06	C1
Acrylonitrile	1	0		3.62	18.00	20	20		0.095	0.085	10.01	
Iodomethane	1	0		3.15	9.93	20	20		0.262	0.148	50.35	C1
Acetone	1	0		3.04	88.81	100	20	0.1	0.072	0.064	11.19	
Carbon Disulfide	1	0		3.21	16.75	20	20	0.1	0.580	0.486	16.25	
t-Butyl Alcohol	1	0		3.48	73.31	100	20		0.029	0.022	26.70	C1
n-Hexane	1	0		3.87	19.36	20	20		0.180	0.175	3.19	
Di-isopropyl-ether	1	0		4.03	17.81	20	20		0.556	0.495	10.94	
1,1-Dichloroethene	1	0		3.00	18.75	20	20	0.1	0.300	0.281	6.24	
Methyl Acetate	1	0		3.31	17.63	20	20	0.1	0.220	0.194	11.87	
Methyl-t-butyl ether	1	0		3.64	17.40	20	20	0.1	0.620	0.540	13.00	
1,1-Dichloroethane	1	0		4.00	18.39	20	20	0.2	0.370	0.340	8.04	
trans-1,2-Dichloroethene	1	0		3.65	18.68	20	20	0.1	0.245	0.229	6.58	
Ethyl-t-butyl ether	1	0		4.29	17.66	20	20	0.5	0.578	0.510	11.71	
cis-1,2-Dichloroethene	1	0		4.40	18.46	20	20	0.1	0.363	0.335	7.68	
Bromochloromethane	1	0		4.56	18.88	20	20		0.160	0.151	5.62	
2,2-Dichloropropane	1	0		4.41	17.34	20	20		0.326	0.283	13.28	
Ethyl acetate	1	0		4.43	17.94	20	20		0.238	0.214	10.31	
1,4-Dioxane	1	0		5.49	927.67	1000	20		0.004	0.004	7.23	
1,1-Dichloropropene	1	0		4.82	19.04	20	20		0.295	0.281	4.79	
Chloroform	1	0		4.60	18.90	20	20	0.2	0.411	0.388	5.52	
Dibromofluoromethane	1	0	S	4.70	30.13	30	**		0.279	0.280	0.44	
Cyclohexane	1	0		4.77	18.78	20	20	0.1	0.255	0.240	6.10	
1,2-Dichloroethane-d4	1	0	S	4.90	30.54	30	**		0.130	0.133	1.80	
1,2-Dichloroethane	1	0		4.95	18.87	20	20	0.1	0.297	0.281	5.63	
2-Butanone	1	0		4.41	17.43	20	20	0.1	0.099	0.086	12.83	
1,1,1-Trichloroethane	1	0		4.73	18.52	20	20	0.1	0.385	0.357	7.38	
Carbon Tetrachloride	1	0		4.83	18.31	20	20	0.1	0.350	0.321	8.45	
Vinyl Acetate	1	0		4.02	17.09	20	20		0.552	0.472	14.57	
Bromodichloromethane	1	0		5.57	18.29	20	20	0.2	0.315	0.288	8.56	
Methylcyclohexane	1	0		5.41	19.51	20	20	0.1	0.257	0.250	2.44	
Dibromomethane	1	0		5.49	16.97	20	20		0.199	0.169	15.14	
1,2-Dichloropropane	1	0		5.43	18.68	20	20	0.1	0.206	0.192	6.59	
Trichloroethene	1	0		5.30	17.22	20	20	0.2	0.293	0.252	13.90	
Benzene	1	0		4.95	19.02	20	20	0.5	0.881	0.837	4.91	
tert-Amyl methyl ether	1	0		4.99	17.10	20	20		0.612	0.523	14.52	
Chlorobenzene-d5	1	0	I	6.73	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.95	16.47	20	20	0.5	0.543	0.447	17.63	
Methyl methacrylate	1	0		5.45	17.84	20	20	0.5	0.239	0.213	10.79	
Dibromochloromethane	1	0		6.42	17.26	20	20	0.1	0.355	0.307	13.72	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 2M176207.D **Instrument:** GCMS 2

Cont Calibration Date/Time 11/15/2022 11:43:00 Method: EPA 8260D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.70	19.35	20	20		0.150	0.145	3.26	
cis-1,3-Dichloropropene	1	0		5.80	17.30	20	20	0.2	0.457	0.395	13.52	
trans-1,3-Dichloropropene	1	0		6.09	16.92	20	20	0.1	0.419	0.355	15.40	
Ethyl methacrylate	1	0		6.10	17.83	20	20	0.5	0.243	0.216	10.85	
1,1,2-Trichloroethane	1	0		6.20	19.23	20	20	0.1	0.278	0.267	3.84	
1,2-Dibromoethane	1	0		6.49	18.75	20	20	0.1	0.316	0.296	6.24	
1,3-Dichloropropane	1	0		6.29	19.11	20	20		0.446	0.426	4.45	
4-Methyl-2-Pentanone	1	0		5.87	17.42	20	20	0.1	0.281	0.245	12.89	
2-Hexanone	1	0		6.31	17.44	20	20	0.1	0.204	0.178	12.79	
Tetrachloroethene	1	0		6.29	18.03	20	20	0.2	0.278	0.251	9.86	
Toluene-d8	1	0	S	5.95	30.82	30	**		1.237	1.271	2.74	
Toluene	1	0		5.99	18.95	20	20	0.4	0.737	0.698	5.24	
1,1,1,2-Tetrachloroethane	1	0		6.78	17.91	20	20		0.312	0.279	10.46	
Chlorobenzene	1	0		6.75	18.96	20	20	0.5	0.850	0.806	5.20	
1,4-Dichlorobenzene-d4	1	0	I	8.02	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		6.99	17.33	20	20	0.5	1.117	0.968	13.35	
n-Amyl acetate	1	0		7.11	18.15	20	20	0.5	0.963	0.874	9.24	
Bromoform	1	0		7.20	15.81	20	20	0.1	0.556	0.440	20.95	C1
Ethylbenzene	1	0		6.79	19.60	20	20	0.1	0.735	0.721	2.00	
1,1,2,2-Tetrachloroethane	1	0		7.42	19.38	20	20	0.1	0.814	0.789	3.09	
Bromofluorobenzene	1	0	S	7.37	29.33	30	**		0.871	0.852	2.22	
Styrene	1	0		7.07	19.05	20	20	0.3	1.848	1.760	4.75	
m&p-Xylenes	1	0		6.85	39.96	40	20	0.1	1.073	1.072	0.09	
o-Xylene	1	0		7.07	19.26	20	20	0.3	1.073	1.033	3.71	
trans-1,4-Dichloro-2-butene	1	0		7.45	18.73	20	20		0.280	0.262	6.36	
1,3-Dichlorobenzene	1	0		7.99	18.93	20	20	0.6	1.178	1.115	5.34	
1,4-Dichlorobenzene	1	0		8.04	18.85	20	20	0.5	1.213	1.143	5.77	
1,2-Dichlorobenzene	1	0		8.26	18.47	20	20	0.4	1.135	1.049	7.63	
Isopropylbenzene	1	0		7.26	19.81	20	20	0.1	2.437	2.414	0.94	
Cyclohexanone	1	0		7.34	86.05	100	20		0.036	0.031	13.95	
Camphene	1	0		7.43	20.15	20	20		0.593	0.597	0.73	
1,2,3-Trichloropropane	1	0		7.46	18.70	20	20		0.995	0.930	6.48	
2-Chlorotoluene	1	0		7.56	19.51	20	20		1.413	1.379	2.46	
p-Ethyltoluene	1	0		7.55	19.42	20	20		2.261	2.196	2.88	
4-Chlorotoluene	1	0		7.62	20.49	20	20		1.363	1.396	2.46	
n-Propylbenzene	1	0		7.49	20.52	20	20		2.561	2.628	2.61	
Bromobenzene	1	0		7.46	19.62	20	20		1.459	1.431	1.89	
1,3,5-Trimethylbenzene	1	0		7.58	20.99	20	20		1.723	1.809	4.96	
Butyl methacrylate	1	0		7.59	18.76	20	20	0.5	0.610	0.572	6.22	
t-Butylbenzene	1	0		7.78	19.44	20	20		1.792	1.742	2.82	
1,2,4-Trimethylbenzene	1	0		7.80	19.74	20	20		1.843	1.819	1.29	
sec-Butylbenzene	1	0		7.90	20.22	20	20		2.053	2.076	1.11	
4-Isopropyltoluene	1	0		7.97	19.63	20	20		1.802	1.769	1.84	
n-Butylbenzene	1	0		8.20	20.41	20	20		1.700	1.735	2.05	
p-Diethylbenzene	1	0		8.19	19.45	20	20		1.001	0.974	2.75	
1,2,4,5-Tetramethylbenzene	1	0		8.65	18.28	20	20		1.407	1.287	8.58	
1,2-Dibromo-3-Chloropropane	1	0		8.71	15.83	20	20	0.05	0.236	0.187	20.83	C1
Camphor	1	0		9.15	175.75	200	20		0.093	0.082	12.12	
Hexachlorobutadiene	1	0		9.28	16.20	20	20		0.262	0.212	19.02	
1,2,4-Trichlorobenzene	1	0		9.20	17.39	20	20	0.2	0.590	0.513	13.05	
1,2,3-Trichlorobenzene	1	0		9.50	17.25	20	20		0.523	0.451	13.73	
Naphthalene	1	0		9.36	18.64	20	20		1.959	1.825	6.81	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

2111513 0044

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M175253.D Method: EPA 8260D

Analysis Date/Time: 10/25/22 16:39

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	192109	5.09	151310	6.73	72940	8.02								
Eval File Area Limit:	96054-384218		75655-302620		36470-145880									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									

Data File	Sample#						
2M175245.D	CAL @ 0.5 PPB	188788	5.09	153749	6.73	72078	8.02
2M175246.D	CAL @ 1 PPB	190728	5.09	150536	6.73	70997	8.02
2M175249.D	CAL @ 5 PPB	192096	5.09	154525	6.73	74202	8.02
2M175251.D	CAL @ 10 PPB	192415	5.09	152784	6.73	72906	8.02
2M175253.D	CAL @ 20 PPB	192109	5.09	151310	6.73	72940	8.02
2M175255.D	CAL @ 50 PPB	186660	5.09	146705	6.73	69972	8.02
2M175258.D	CAL @ 100 PPB	186231	5.09	146807	6.73	72653	8.02
2M175262.D	CAL @ 250 PPB	180082	5.09	145322	6.73	70727	8.02
2M175266.D	CAL @ 500 PPB	175951	5.09	145310	6.73	73827	8.02
2M175270.D	BLK	196196	5.09	151849	6.73	68584	8.02
2M175272.D	STD	188122	5.09	144971	6.73	68692	8.02
2M175274.D	ICV	218413	5.09	166850	6.73	76275	8.02

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

2111513 0045

FORM8

Internal Standard Areas

Evaluation Std Data File: 2M176207.D Method: EPA 8260D

Analysis Date/Time: 11/15/22 11:43

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	238582	5.09	189709	6.73	89849	8.02								
Eval File Area Limit:	119291-477164		94854-379418		44924-179698									
Eval File Rt Limit:	4.59-5.59		6.23-7.23		7.52-8.52									
Data File	Sample#													
2M176210.D	DAILY BLANK	233112	5.09	190067	6.73	87880	8.02							
2M176211.D	DAILY BLANK	236459	5.09	193233	6.73	88391	8.02							
2M176212.D	AD34508-001	236979	5.09	191949	6.73	87772	8.02							
2M176213.D	MBS105230	240187	5.09	193360	6.73	89463	8.02							
2M176214.D	MBS105231	236988	5.09	191361	6.73	91117	8.02							
2M176215.D	AD34419-005(50X)(T:	245686	5.09	200317	6.73	89697	8.02							
2M176216.D	AD34419-005(50X)(T:	238382	5.09	191331	6.73	82472	8.02							
2M176217.D	AD34419-005(50X)(T)	229093	5.09	185215	6.73	80791	8.02							
2M176218.D	AD34520-010	231256	5.09	187907	6.73	83780	8.02							
2M176219.D	AD34520-013	222242	5.09	180757	6.73	81208	8.02							
2M176220.D	AD34525-004	248054	5.09	207940	6.73	90937	8.02							
2M176221.D	AD34534-002	232667	5.09	190159	6.73	83366	8.02							
2M176222.D	AD34534-001	224653	5.09	178053	6.73	77930	8.02							
2M176223.D	AD34520-001	225759	5.09	184745	6.73	81717	8.02							
2M176224.D	AD34520-003	240463	5.09	197530	6.73	88590	8.02							
2M176225.D	AD34520-005	234424	5.09	188588	6.73	83417	8.02							
2M176226.D	AD34520-006	230360	5.09	189058	6.73	83862	8.02							
2M176227.D	AD34520-008	238722	5.09	193077	6.73	84057	8.02							
2M176228.D	AD34520-011	229312	5.09	186829	6.73	81729	8.02							
2M176229.D	AD34525-001	227898	5.09	182420	6.73	82706	8.02							
2M176230.D	AD34525-002	238617	5.09	197478	6.73	88570	8.02							
2M176231.D	AD34532-001	220579	5.09	176049	6.73	76369	8.02							
2M176232.D	AD34533-002	232272	5.09	187483	6.73	85972	8.02							
2M176233.D	BLK	228780	5.09	186818	6.73	81866	8.02							
2M176234.D	AD34533-001	229899	5.09	182478	6.73	78479	8.02							
2M176235.D	BLK	243740	5.09	198819	6.73	87755	8.02							
2M176236.D	AD34525-002	244140	5.09	197479	6.73	85794	8.02							
2M176237.D	AD34516-002	229770	5.09	191633	6.73	94515	8.02							
2M176238.D	AD34516-001	241607	5.09	200906	6.73	101831	8.02							
2M176239.D	BLK	254750	5.09	208994	6.73	97414	8.02							
2M176240.D	AD34525-001	256005	5.09	206900	6.73	95500	8.02							

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

TPH Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34533-001
Client Id: TMW-20S
Data File: 8G669610.D
Analysis Date: 11/22/22 14:08
Date Rec/Extracted: 11/15/22-11/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 666898

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669610.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 14:08:08
Operator : AH/ABM/RR/KT/JR
Sample : AD34533-001
Misc : A.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:34:17 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.258	38962	22.169		
23)	O-Terphenyl	6.530	74356	26.018		
24)d	Diesel Range Organics(T	6.530f	339139	145.488		m
25)t	Total Petroleum Hydroca	2.017	1214742	533.048		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

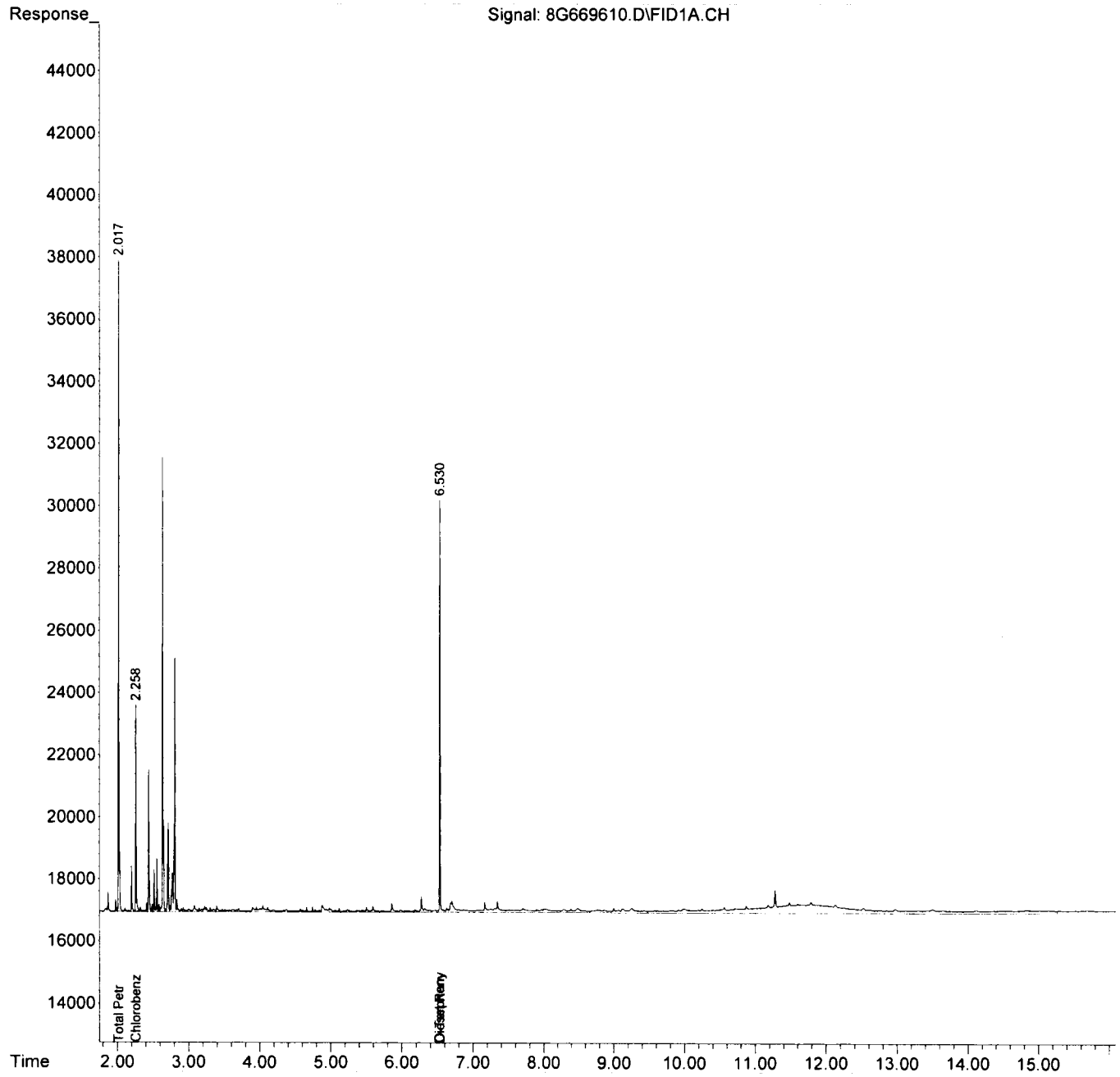
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669610.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 14:08:08
Operator : AH/ABM/RR/KT/JR
Sample : AD34533-001
Misc : A.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:34:17 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34533-002
Client Id: TMW-20D
Data File: 8G669611.D
Analysis Date: 11/22/22 14:34
Date Rec/Extracted: 11/15/22-11/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 666898

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669611.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 14:34:12
Operator : AH/ABM/RR/KT/JR
Sample : AD34533-002
Misc : A.TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 09:47:10 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.258	22850	13.001		
23)	O-Terphenyl	6.526	43512	15.225		
24)d	Diesel Range Organics(T	6.526f	374227	160.540		m
25)t	Total Petroleum Hydroca	2.015	1124038	493.246		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

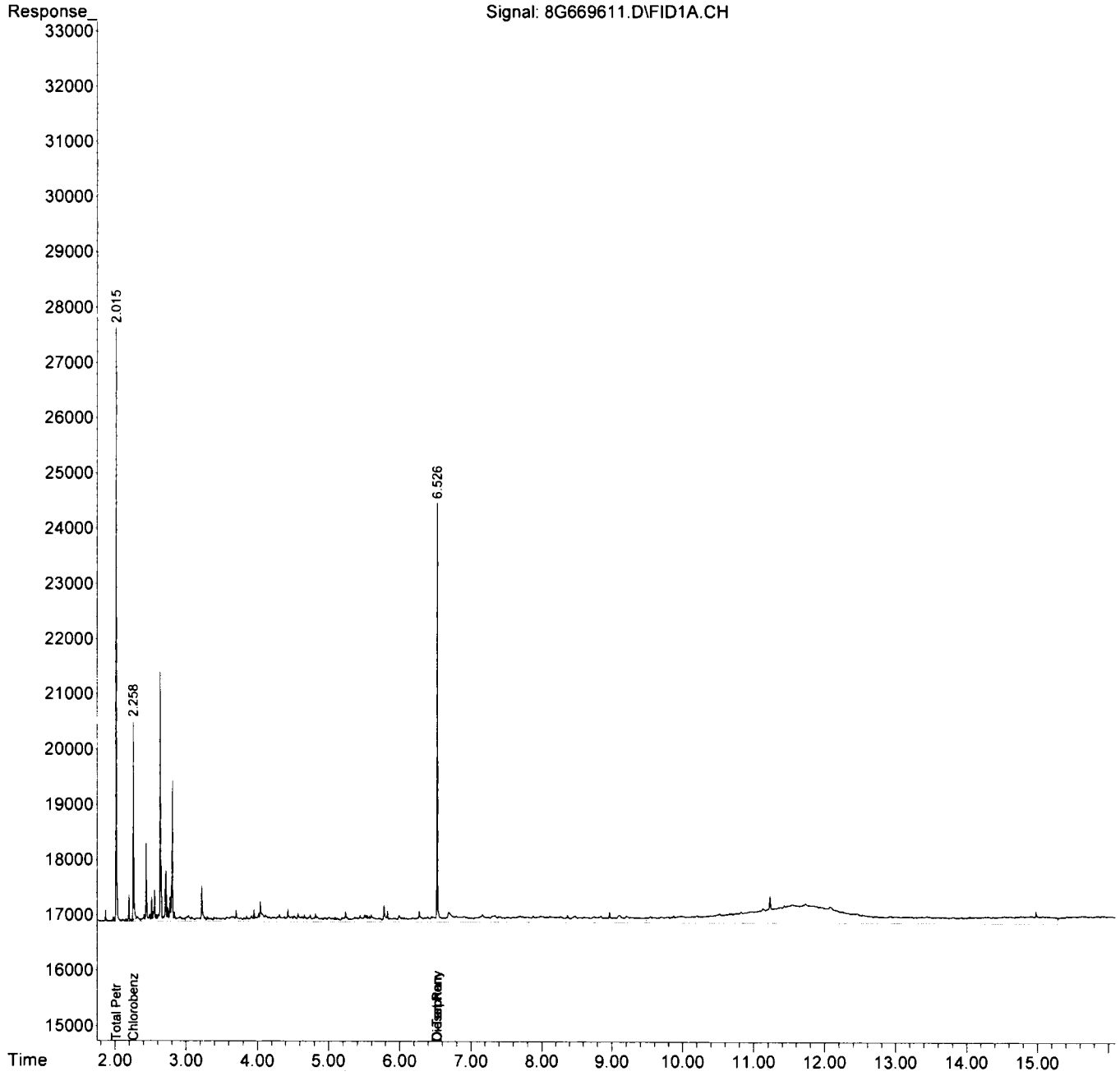
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669611.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 14:34:12
Operator : AH/ABM/RR/KT/JR
Sample : AD34533-002
Misc : A.TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 09:47:10 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: WMB103682
Client Id:
Data File: 8G669608.D
Analysis Date: 11/22/22 13:17
Date Rec/Extracted: NA-11/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 666898

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669608.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 13:17:05
Operator : AH/ABM/RR/KT/JR
Sample : WMB103682
Misc : A.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:08:56 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.258	44364	25.242		m
23)	O-Terphenyl	6.529	86331	30.208		
24)d	Diesel Range Organics(T	6.528f	167239	71.744		m
25)t	Total Petroleum Hydroca	6.528f	723623	317.538		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

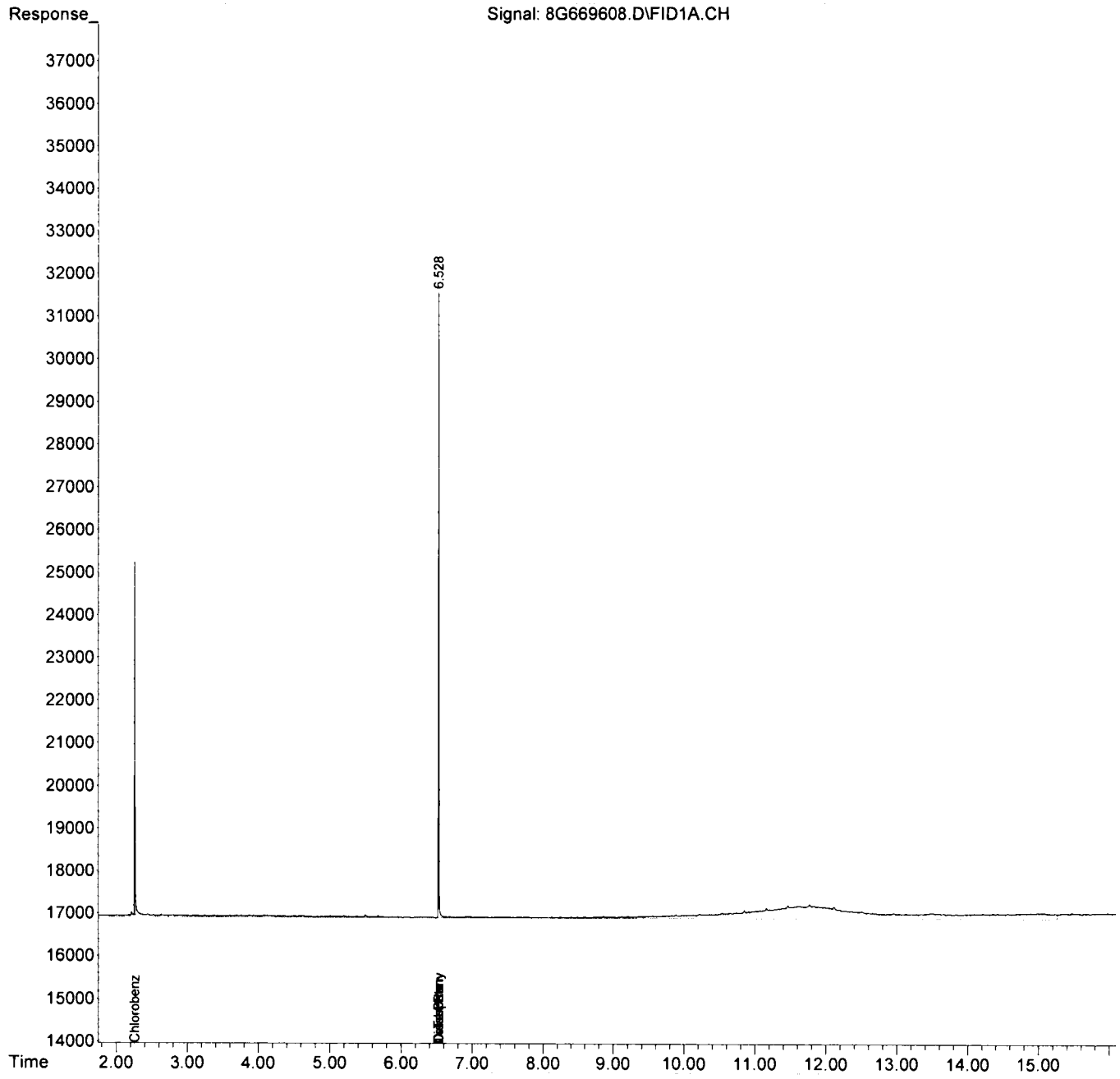
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669608.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 13:17:05
Operator : AH/ABM/RR/KT/JR
Sample : WMB103682
Misc : A.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:08:56 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669605.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 11:59:53
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 12:19:32 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	5.502f	226890	97.334		m
25)t	Total Petroleum Hydroca	11.810f	998714	438.252		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

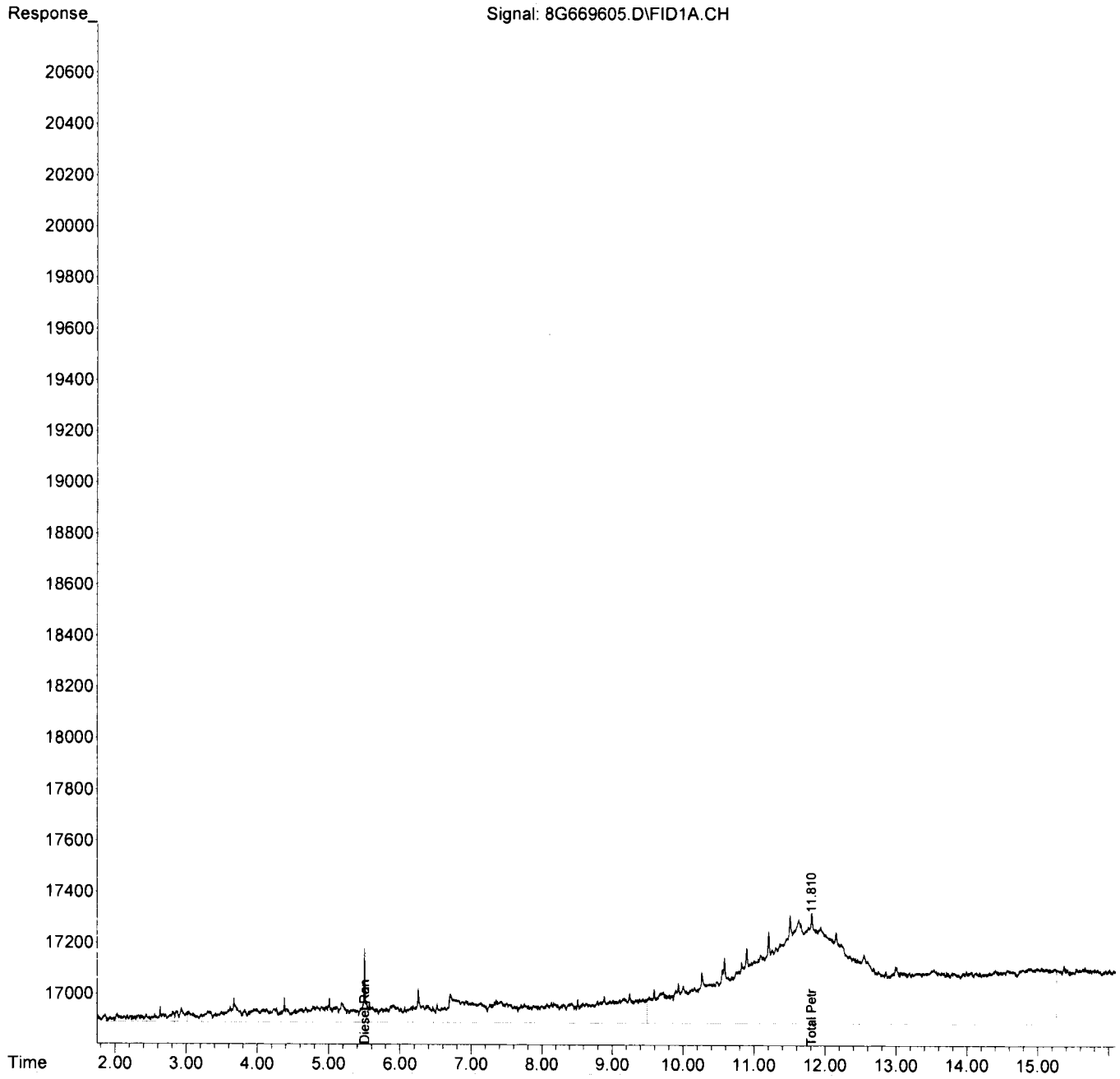
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669605.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 11:59:53
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 12:19:32 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669608.D	WMB103682	A	11/22/22 13:17	1		126	151				
8G669612.D	AD34533-001(MS)	A	11/22/22 14:59	1		70	99				
8G669613.D	AD34533-001(MSD)	A	11/22/22 15:47	1		73	99				
8G669610.D	AD34533-001	A	11/22/22 14:08	1		111	130				
8G669611.D	AD34533-002	A	11/22/22 14:34	1		65	76				
8G669609.D	WMB103682(MS)	A	11/22/22 13:42	1		107	127				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	24-136
S2=O-Terphenyl	20	40-154

Form3
Recovery Data Laboratory Limits
QC Batch: WMB103682

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669609.D	WMB103682(MS)	11/22/2022 1:42:44 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669605.D	INST BLK	11/22/2022 11:59:53 A

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3185.135	0	3000	106	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB103682

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669612.D	AD34533-001(MS)	11/22/2022 2:59:36 PM
Non Spike(If applicable):	8G669610.D	AD34533-001	11/22/2022 2:08:08 PM
Inst Blank(If applicable):	8G669605.D	INST BLK	11/22/2022 11:59:53 A

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3835	0	3000	128	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669613.D	AD34533-001(MSD)	11/22/2022 3:47:16 PM
Non Spike(If applicable):	8G669610.D	AD34533-001	11/22/2022 2:08:08 PM
Inst Blank(If applicable):	8G669605.D	INST BLK	11/22/2022 11:59:53 A

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	4104.36	0	3000	137*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB103682

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669613.D	AD34533-001(MSD)	11/22/2022 3:47:16 PM
Duplicate(If applicable):	8G669612.D	AD34533-001(MS)	11/22/2022 2:59:36 PM
Inst Blank(If applicable):	8G669605.D	INST BLK	11/22/2022 11:59:53 A

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	4104.36	3835	6.8	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB103682
Blank Data File: 8G669608.D
Matrix: Aqueous

Blank Analysis Date: 11/22/22 13:17
Blank Extraction Date: 11/19/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34533-001	8G669610.D	11/22/22 14:08
AD34533-002	8G669611.D	11/22/22 14:34
AD34533-001(MSD	8G669613.D	11/22/22 15:47
AD34533-001(MS)	8G669612.D	11/22/22 14:59
WMB103682(MS)	8G669609.D	11/22/22 13:42

Form 5

Method: EPA 8015D

Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669603.D	INST BLK	11/22/22 09:02	Aqueous					
8G669604.D	CALTPH@20PPM	11/22/22 11:34	Aqueous	8G66960	6.5878	0		
8G669605.D	INST BLK	11/22/22 11:59	Aqueous	8G66960	0.0000	200		
8G669606.D	SMB103688	11/22/22 12:25	Soil	8G66960	6.5337	0.8246		
8G669607.D	SMB103688(MS)	11/22/22 12:50	Soil	8G66960	6.5266	0.9333		
8G669608.D	WMB103682	11/22/22 13:17	Aqueous	8G66960	6.5286	0.9027		
8G669609.D	WMB103682(MS)	11/22/22 13:42	Aqueous	8G66960	6.5262	0.9395		
8G669610.D	AD34533-001	11/22/22 14:08	Aqueous	8G66960	6.5301	0.8797		
8G669611.D	AD34533-002	11/22/22 14:34	Aqueous	8G66960	6.5262	0.9395		
8G669612.D	AD34533-001(MS)	11/22/22 14:59	Aqueous	8G66960	6.5427	0.687		
8G669613.D	AD34533-001(MSD)	11/22/22 15:47	Aqueous	8G66960	6.6246	0.5571		
8G669614.D	AD34593-001	11/22/22 16:12	Soil	8G66960	6.5607	0.4122		
8G669615.D	CALTPH@20PPM	11/22/22 16:38	Aqueous	8G66960	6.5530	0.5296		
8G669616.D	INST BLK	11/22/22 17:03	Aqueous	8G66961	0.0000	200		
8G669617.D	AD34609-003	11/22/22 17:29	Soil	8G66961	6.5456	0.113		
8G669618.D	AD34609-003(MS)	11/22/22 17:54	Soil	8G66961	6.5342	0.2873		
8G669619.D	AD34609-003(MSD)	11/22/22 18:20	Soil	8G66961	6.5285	0.3746		
8G669620.D	AD34609-004	11/22/22 18:45	Soil	8G66961	6.5365	0.2521		
8G669621.D	AD34609-005	11/22/22 19:10	Soil	8G66961	6.5231	0.4573		
8G669622.D	AD34609-006	11/22/22 19:36	Soil	8G66961	6.5258	0.4159		
8G669623.D	TEST	11/22/22 20:01	Aqueous	8G66961	0.0000	200		
8G669624.D	CALTPH@20PPM	11/22/22 20:26	Aqueous	8G66961	6.5217	0.4788		
8G669625.D	CALTPH@20PPM	11/22/22 20:52	Aqueous	8G66961	6.5127	0.6169		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2111513 0065

Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 , Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669604.D			8G669615.D												
Method:				8015			8015												
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM												
Calibration Date/Time				11/22/22 11:34			11/22/22 16:38												
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
C8	20	1	0	21.61	20	8.1	19.94	20	0.3									
C9	20	1	0	20.76	20	3.8	18.58	20	7.1									
C10	20	1	0	20.57	20	2.8	17.8	20	11.0									
C12	20	1	0	20.33	20	1.7	17.55	20	12.3									
C14	20	1	0	21.55	20	7.7	18.38	20	8.1									
C16	20	1	0	23.05	20	15.3	18.5	20	7.5									
C17	20	1	0	19.31	20	3.5	21.54	20	7.7									
Pristane	20	1	0	19.43	20	2.8	16.88	20	15.6									
C18	20	1	0	21.29	20	6.5	17.45	20	12.8									
Phytane	20	1	0	20.54	20	2.7	20.57	20	2.8									
C20	20	1	0	22.3	20	11.5	19.13	20	4.4									
C22	20	1	0	22.77	20	13.9	19.02	20	4.9									
C24	20	1	0	22.19	20	11.0	19.19	20	4.0									
C26	20	1	0	22.09	20	10.5	19.88	20	0.6									
C28	20	1	0	21.84	20	9.2	19.7	20	1.5									
C30	20	1	0	21.61	20	8.1	19.99	20	0.1									
C32	20	1	0	22.03	20	10.2	19.73	20	1.4									
C34	20	1	0	20.53	20	2.7	19.41	20	3.0									
C36	20	1	0	18.27	20	8.6	18.61	20	6.9									
C40	20	1	0	16.34	20	18.3	16.98	20	15.1									
C44	20	1	0	16.81	20	16.0	15.77	20	21.2*									
Chlorobenzene	20	1	0	20.72	20	3.6	18.56	20	7.2									
O-Terphenyl	20	1	0	20.4	20	2.0	19.1	20	4.5									
Average Difference	20	1	0			7.8			6.9									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.59	(6.55 - 6.63)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

DRO Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34533-001
Client Id: TMW-20S
Data File: 8G669610.D
Analysis Date: 11/22/22 14:08
Date Rec/Extracted: 11/15/22-11/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 500ml
Final Vol: 0.5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 666892

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669610.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 14:08:08
Operator : AH/ABM/RR/KT/JR
Sample : AD34533-001
Misc : A.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:34:17 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.258	38962	22.169		
23)	O-Terphenyl	6.530	74356	26.018		
24)d	Diesel Range Organics(T	6.530f	339139	145.488		m
25)t	Total Petroleum Hydroca	2.017	1214742	533.048		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

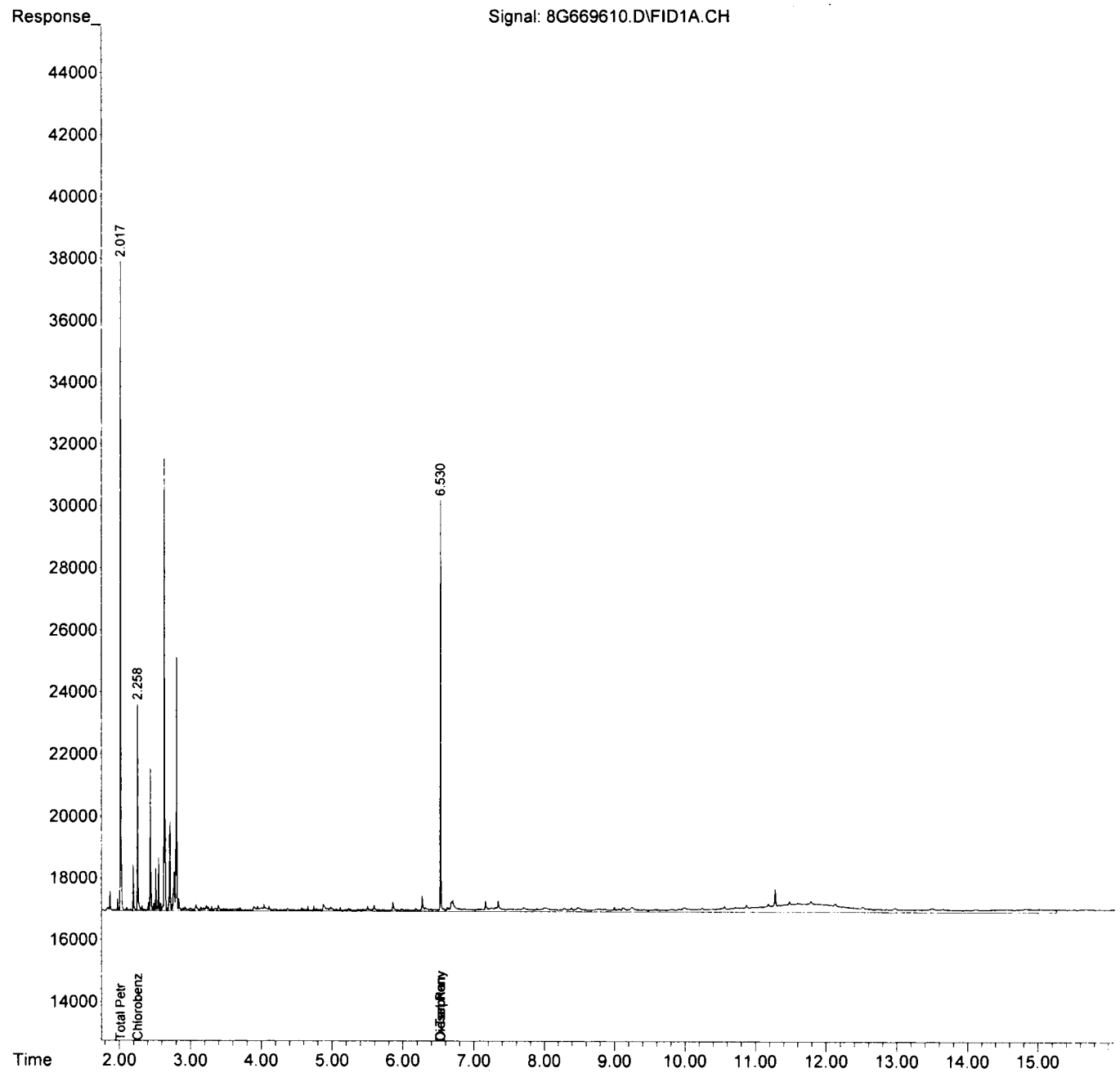
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669610.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 14:08:08
Operator : AH/ABM/RR/KT/JR
Sample : AD34533-001
Misc : A.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:34:17 2022
Quant Method : G:\GCDATA\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD34533-002
Client Id: TMW-20D
Data File: 8G669611.D
Analysis Date: 11/22/22 14:34
Date Rec/Extracted: 11/15/22-11/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 666892

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669611.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 14:34:12
Operator : AH/ABM/RR/KT/JR
Sample : AD34533-002
Misc : A.TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 09:47:10 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.258	22850	13.001		
23)	O-Terphenyl	6.526	43512	15.225		
24)d	Diesel Range Organics(T	6.526f	374227	160.540		m
25)t	Total Petroleum Hydroca	2.015	1124038	493.246		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

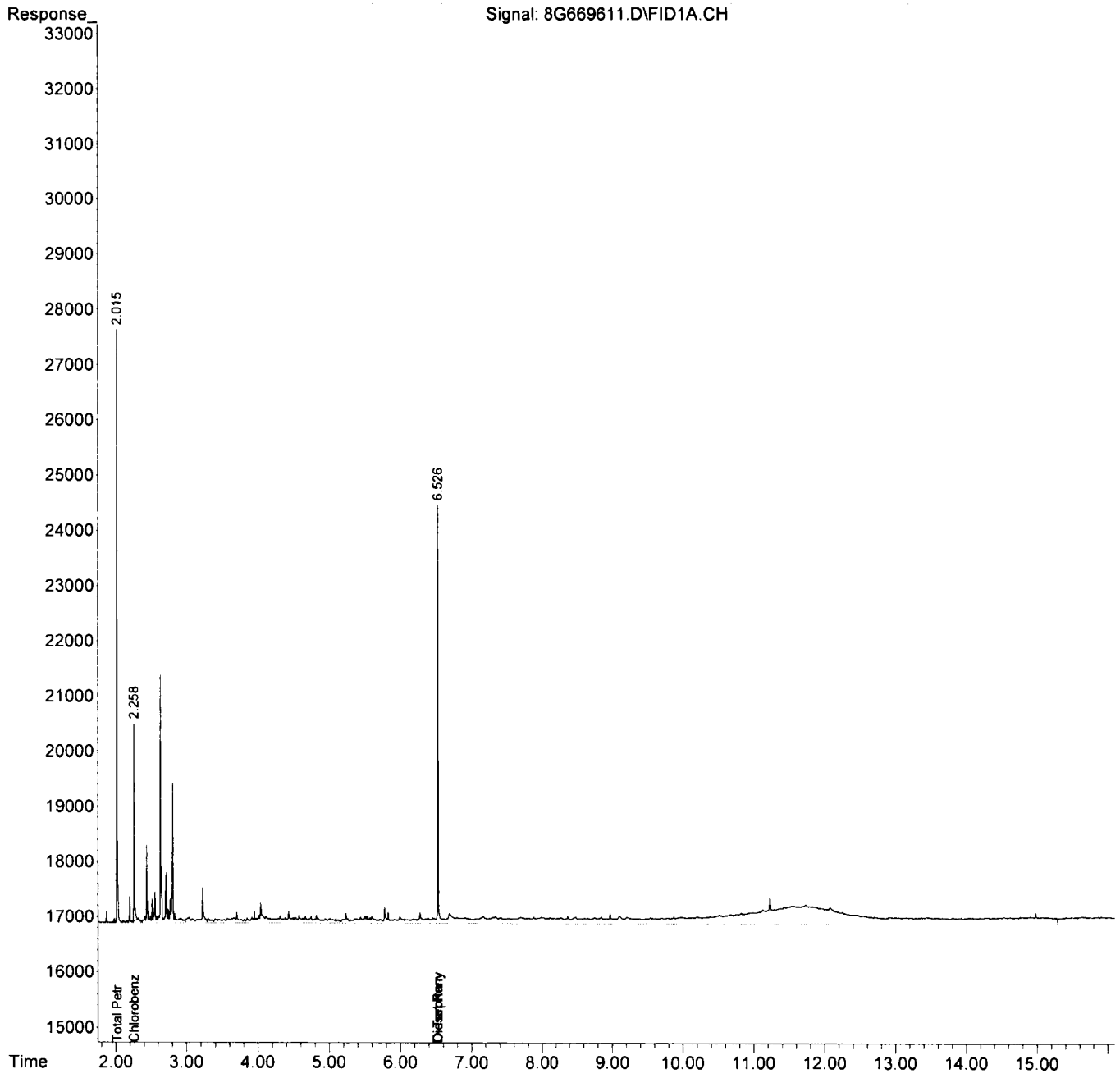
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669611.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 14:34:12
Operator : AH/ABM/RR/KT/JR
Sample : AD34533-002
Misc : A.TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 23 09:47:10 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: WMB103682
Client Id:
Data File: 8G669608.D
Analysis Date: 11/22/22 13:17
Date Rec/Extracted: NA-11/19/22
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phchpd2	Diesel Range Organics	300	U				

Worksheet #: 666892

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669608.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 13:17:05
Operator : AH/ABM/RR/KT/JR
Sample : WMB103682
Misc : A.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:08:56 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	2.258	44364	25.242		m
23)	O-Terphenyl	6.529	86331	30.208		
24)d	Diesel Range Organics(T	6.528f	167239	71.744		m
25)t	Total Petroleum Hydroca	6.528f	723623	317.538		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

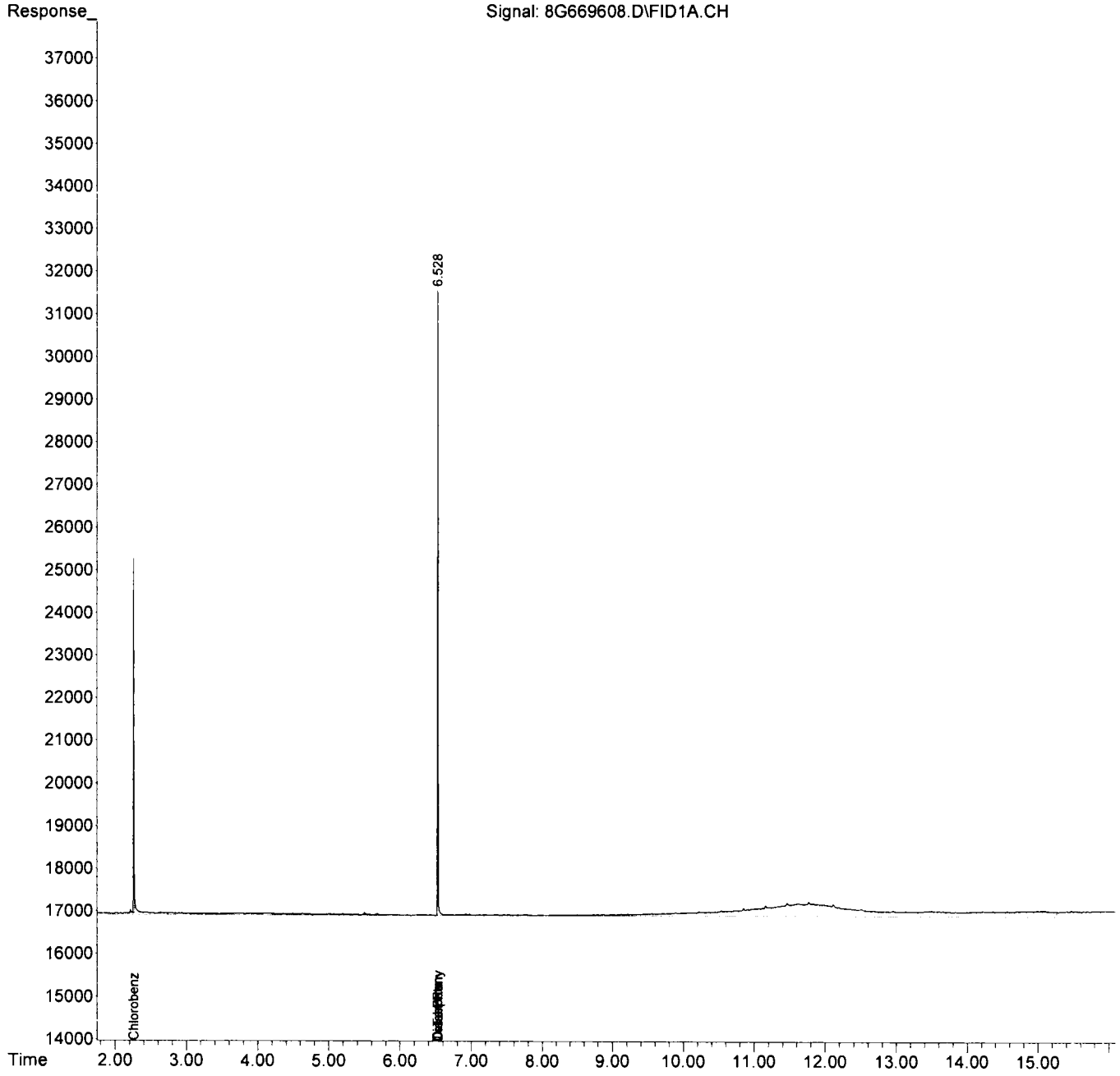
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669608.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 13:17:05
Operator : AH/ABM/RR/KT/JR
Sample : WMB103682
Misc : A.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 14:08:56 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669605.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 11:59:53
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 12:19:32 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)t	C44	0.000	0	N.D.		d
22)	Chlorobenzene	0.000	0	N.D.		d
23)	O-Terphenyl	0.000	0	N.D.		d
24)d	Diesel Range Organics(T	5.502f	226890	97.334		m
25)t	Total Petroleum Hydroca	11.810f	998714	438.252		m
26)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
27)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
28)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

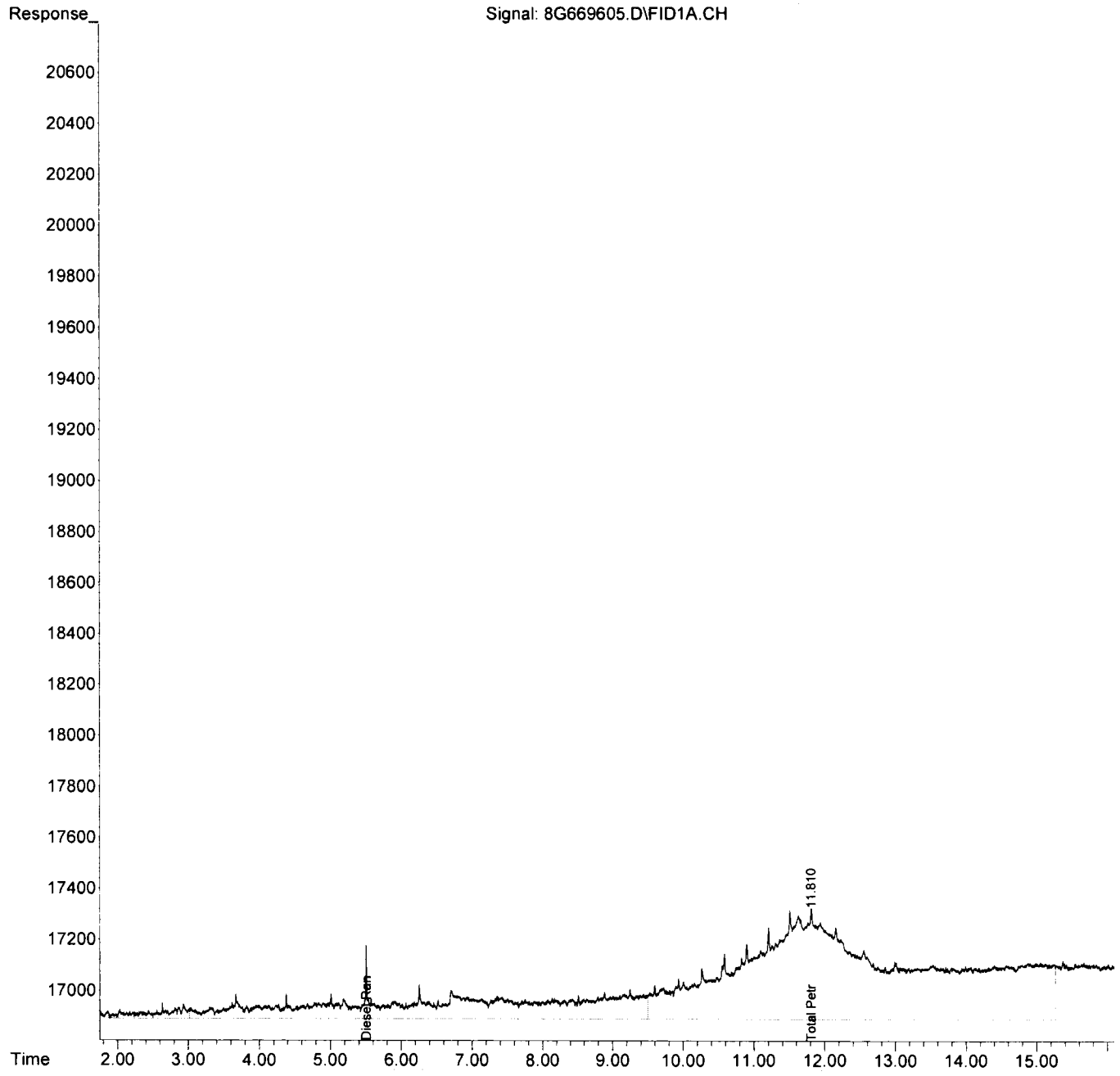
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\Gcdata\2022\GC_8\Data\11-22-22\
Data File : 8G669605.D
Signal(s) : FID1A.CH
Acq On : 22-Nov-22, 11:59:53
Operator : AH/ABM/RR/KT/JR
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 22 12:19:32 2022
Quant Method : G:\Gcdata\2022\GC_8\MethodQt\8G_T(C8-C44)0919.M
Quant Title : @GC_8,mg,8015
QLast Update : Thu Sep 22 11:53:39 2022
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
8G669608.D	WMB103682	A	11/22/22 13:17	1		126	151				
8G669612.D	AD34533-001(MS)	A	11/22/22 14:59	1		70	99				
8G669613.D	AD34533-001(MSD)	A	11/22/22 15:47	1		73	99				
8G669610.D	AD34533-001	A	11/22/22 14:08	1		111	130				
8G669611.D	AD34533-002	A	11/22/22 14:34	1		65	76				
8G669609.D	WMB103682(MS)	A	11/22/22 13:42	1		107	127				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	24-136
S2=O-Terphenyl	20	40-154

Form3
Recovery Data Laboratory Limits
QC Batch: WMB103682

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669609.D	WMB103682(MS)	11/22/2022 1:42:44 PM
Non Spike(If applicable):			
Inst Blank(If applicable):	8G669605.D	INST BLK	11/22/2022 11:59:53 A

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3185.135	0	3000	106	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: WMB103682

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669612.D	AD34533-001(MS)	11/22/2022 2:59:36 PM
Non Spike(If applicable):	8G669610.D	AD34533-001	11/22/2022 2:08:08 PM
Inst Blank(If applicable):	8G669605.D	INST BLK	11/22/2022 11:59:53 A

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3835	0	3000	128	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669613.D	AD34533-001(MSD)	11/22/2022 3:47:16 PM
Non Spike(If applicable):	8G669610.D	AD34533-001	11/22/2022 2:08:08 PM
Inst Blank(If applicable):	8G669605.D	INST BLK	11/22/2022 11:59:53 A

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	4104.36	0	3000	137*	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: WMB103682

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8G669613.D	AD34533-001(MSD)	11/22/2022 3:47:16 PM
Duplicate(If applicable):	8G669612.D	AD34533-001(MS)	11/22/2022 2:59:36 PM
Inst Blank(If applicable):	8G669605.D	INST BLK	11/22/2022 11:59:53 A

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	4104.36	3835	6.8	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: WMB103682
Blank Data File: 8G669608.D
Matrix: Aqueous

Blank Analysis Date: 11/22/22 13:17
Blank Extraction Date: 11/19/22
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34533-001	8G669610.D	11/22/22 14:08
AD34533-002	8G669611.D	11/22/22 14:34
AD34533-001(MSD	8G669613.D	11/22/22 15:47
AD34533-001(MS)	8G669612.D	11/22/22 14:59
WMB103682(MS)	8G669609.D	11/22/22 13:42

Form 5

Method: EPA 8015D

Instrument: GC_8

Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669019.D	INST BLK(MECL2)	09/19/22 10:54	Aqueous					
8G669020.D	CALTPH@500PPM	09/19/22 11:22	Aqueous	8G66902	6.6261	0.1934		
8G669021.D	CALTPH@100PPM	09/19/22 11:56	Aqueous	8G66902	6.6567	0.6541		
8G669023.D	CALTPH@40PPM	09/19/22 12:21	Aqueous	8G66902	6.6188	0.0831		
8G669024.D	TPH@20PPM	09/19/22 12:47	Aqueous	8G66902	6.6102	0.0469		
8G669025.D	CALTPH@10PPM	09/19/22 13:13	Aqueous	8G66902	6.5894	0.362		
8G669026.D	CALTPH@5PPM	09/19/22 13:39	Aqueous	8G66902	6.6133	0		
8G669027.D	CALTPH@20PPM	09/19/22 14:05	Aqueous	8G66902	6.6045	0.1332		
8G669028.D	ICVTPH@20PPM	09/19/22 14:32	Aqueous	8G66902	6.6095	0.0575		

Drift Compound: O-Terphenyl

Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph)

* - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_8 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
8G669603.D	INST BLK	11/22/22 09:02	Aqueous					
8G669604.D	CALTPH@20PPM	11/22/22 11:34	Aqueous	8G66960	6.5878	0		
8G669605.D	INST BLK	11/22/22 11:59	Aqueous	8G66960	0.0000	200		
8G669606.D	SMB103688	11/22/22 12:25	Soil	8G66960	6.5337	0.8246		
8G669607.D	SMB103688(MS)	11/22/22 12:50	Soil	8G66960	6.5266	0.9333		
8G669608.D	WMB103682	11/22/22 13:17	Aqueous	8G66960	6.5286	0.9027		
8G669609.D	WMB103682(MS)	11/22/22 13:42	Aqueous	8G66960	6.5262	0.9395		
8G669610.D	AD34533-001	11/22/22 14:08	Aqueous	8G66960	6.5301	0.8797		
8G669611.D	AD34533-002	11/22/22 14:34	Aqueous	8G66960	6.5262	0.9395		
8G669612.D	AD34533-001(MS)	11/22/22 14:59	Aqueous	8G66960	6.5427	0.687		
8G669613.D	AD34533-001(MSD)	11/22/22 15:47	Aqueous	8G66960	6.6246	0.5571		
8G669614.D	AD34593-001	11/22/22 16:12	Soil	8G66960	6.5607	0.4122		
8G669615.D	CALTPH@20PPM	11/22/22 16:38	Aqueous	8G66960	6.5530	0.5296		
8G669616.D	INST BLK	11/22/22 17:03	Aqueous	8G66961	0.0000	200		
8G669617.D	AD34609-003	11/22/22 17:29	Soil	8G66961	6.5456	0.113		
8G669618.D	AD34609-003(MS)	11/22/22 17:54	Soil	8G66961	6.5342	0.2873		
8G669619.D	AD34609-003(MSD)	11/22/22 18:20	Soil	8G66961	6.5285	0.3746		
8G669620.D	AD34609-004	11/22/22 18:45	Soil	8G66961	6.5365	0.2521		
8G669621.D	AD34609-005	11/22/22 19:10	Soil	8G66961	6.5231	0.4573		
8G669622.D	AD34609-006	11/22/22 19:36	Soil	8G66961	6.5258	0.4159		
8G669623.D	TEST	11/22/22 20:01	Aqueous	8G66961	0.0000	200		
8G669624.D	CALTPH@20PPM	11/22/22 20:26	Aqueous	8G66961	6.5217	0.4788		
8G669625.D	CALTPH@20PPM	11/22/22 20:52	Aqueous	8G66961	6.5127	0.6169		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

2111513 0087

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8G669026.D	CALTPH@5PPM	09/19/22 13:39	2	8G669025.D	CALTPH@10PPM	09/19/22 13:13
3	8G669027.D	CALTPH@20PPM	09/19/22 14:05	4	8G669023.D	CALTPH@40PPM	09/19/22 12:21
5	8G669021.D	CALTPH@100PPM	09/19/22 11:56	6	8G669020.D	CALTPH@500PPM	09/19/22 11:22

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	0.1730	0.1730	0.1696	0.1925	0.1661	0.1802	----	----	0.176	1.98	1.00	1.00	5.4	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	0.1911	0.1825	0.1806	0.2061	0.1780	0.1909	----	----	0.188	2.55	1.00	1.00	5.5	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	0.2009	0.1951	0.1927	0.2218	0.1907	0.2035	----	----	0.201	3.10	0.999	0.999	5.7	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Avg	0.2007	0.1965	0.1967	0.2340	0.1971	0.2083	----	----	0.206	4.04	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Avg	0.1959	0.1961	0.1939	0.2337	0.1924	0.2005	----	----	0.202	4.84	1.00	1.00	7.8	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	0.2255	0.2242	0.2220	0.2684	0.2185	0.2245	----	----	0.231	5.56	0.997	0.998	8.1	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	0.2562	0.2621	0.2574	0.3030	0.2220	0.1718	----	----	0.245	5.91	0.995	0.999	18	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Avg	0.2948	0.2805	0.2902	0.3284	0.2587	0.2726	----	----	0.288	5.91	1.00	1.00	8.3	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	0.2389	0.2314	0.2304	0.2834	0.2273	0.2315	----	----	0.241	6.24	1.00	1.00	8.9	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	0.2184	0.2103	0.2064	0.2502	0.1991	0.2026	----	----	0.215	6.26	0.997	0.997	8.7	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	0.2516	0.2430	0.2402	0.2989	0.2349	0.2389	----	----	0.251	6.89	1.00	1.00	9.5	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	0.2346	0.2336	0.2284	0.2888	0.2231	0.2250	----	----	0.239	7.53	0.999	0.999	10	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	0.2375	0.2334	0.2305	0.2952	0.2252	0.2277	----	----	0.242	8.16	0.999	0.999	11	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	0.2328	0.2232	0.2248	0.2901	0.2171	0.2196	----	----	0.235	8.78	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	0.2339	0.2270	0.2238	0.2949	0.2188	0.2211	----	----	0.237	9.39	0.999	0.999	12	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	0.2430	0.2301	0.2276	0.3032	0.2249	0.2251	----	----	0.242	9.99	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	0.2435	0.2393	0.2215	0.2983	0.2181	0.2175	----	----	0.240	10.59	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	0.2383	0.2300	0.2220	0.3016	0.2202	0.2203	----	----	0.239	11.18	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	0.2248	0.2211	0.2131	0.2900	0.2149	0.2123	----	----	0.229	11.76	0.992	0.994	13	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	0.2297	0.2416	0.2033	0.2774	0.1998	0.2047	----	----	0.226	13.06	0.993	0.993	13	5.00	10.00	20.00	40.00	100.0	500.0		
C44	1	0	Avg	0.2083	0.2036	0.1990	0.2726	0.1990	0.2062	----	----	0.215	15.17	0.999	0.999	13	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	0.1692	0.1705	0.1705	0.1956	0.1689	0.1795	----	----	0.176	2.28	1.00	1.00	6.0	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	0.2865	0.2788	0.2744	0.3342	0.2669	0.2736	----	----	0.286	6.60	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	0.2324	0.2274	0.2260	0.2762	0.2173	0.2190	----	----	0.233	3.14	1.00	1.00	9.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	0.2273	0.2227	0.2178	0.2730	0.2117	0.2145	----	----	0.228	2.02	0.999	0.999	10	105.0	210.0	420.0	840.0	2100.	10500		
Ext. Petroleum Hydrocarbo	1	0	Avg	0.2312	0.2255	0.2223	0.2772	0.2156	0.2174	----	----	0.232	2.60	0.999	0.999	10	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	0.1923	0.1886	0.1867	0.2176	0.1849	0.1967	----	----	0.195	2.02	1.00	1.00	6.2	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 10.07 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				8G669604.D			8G669615.D										
Method:				8015			8015										
Calibration Name:				CALTPH@20PPM			CALTPH@20PPM										
Calibration Date/Time				11/22/22 11:34			11/22/22 16:38										
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
C8	20	1	0	21.61	20	8.1	19.94	20	0.3								
C9	20	1	0	20.76	20	3.8	18.58	20	7.1								
C10	20	1	0	20.57	20	2.8	17.8	20	11.0								
C12	20	1	0	20.33	20	1.7	17.55	20	12.3								
C14	20	1	0	21.55	20	7.7	18.38	20	8.1								
C16	20	1	0	23.05	20	15.3	18.5	20	7.5								
C17	20	1	0	19.31	20	3.5	21.54	20	7.7								
Pristane	20	1	0	19.43	20	2.8	16.88	20	15.6								
C18	20	1	0	21.29	20	6.5	17.45	20	12.8								
Phytane	20	1	0	20.54	20	2.7	20.57	20	2.8								
C20	20	1	0	22.3	20	11.5	19.13	20	4.4								
C22	20	1	0	22.77	20	13.9	19.02	20	4.9								
C24	20	1	0	22.19	20	11.0	19.19	20	4.0								
C26	20	1	0	22.09	20	10.5	19.88	20	0.6								
C28	20	1	0	21.84	20	9.2	19.7	20	1.5								
C30	20	1	0	21.61	20	8.1	19.99	20	0.1								
C32	20	1	0	22.03	20	10.2	19.73	20	1.4								
C34	20	1	0	20.53	20	2.7	19.41	20	3.0								
C36	20	1	0	18.27	20	8.6	18.61	20	6.9								
C40	20	1	0	16.34	20	18.3	16.98	20	15.1								
C44	20	1	0	16.81	20	16.0	15.77	20	21.2*								
Chlorobenzene	20	1	0	20.72	20	3.6	18.56	20	7.2								
O-Terphenyl	20	1	0	20.4	20	2.0	19.1	20	4.5								
Average Difference	20	1	0			7.8			6.9								

Flags/Notes: **** - Values outside of limits for this column/run***

Form7

RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
C44	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	6.62	(6.58 - 6.66)	6.59	(6.55 - 6.63)						
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

GRO Data

Form1

ORGANICS REPORT

Sample Number: AD34533-001
Client Id: TMW-20S
Data File: 13M26205.D
Analysis Date: 11/15/22 18:05
Date Rec/Extracted: 11/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 666904

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-15-22\
Data File : 13M26205.D
Signal(s) : FID1A.CH
Acq On : 15 Nov 2022 18:05
Operator : SG
Sample : AD34533-001
Misc : A,5ML!4
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 18:28:32 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
1)S	1,4-Dichlorobenzene-d4	9.674	5035	30.442	m
Target Compounds					
2)	2-Methylpentane	0.000	0	N.D.	
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.	
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

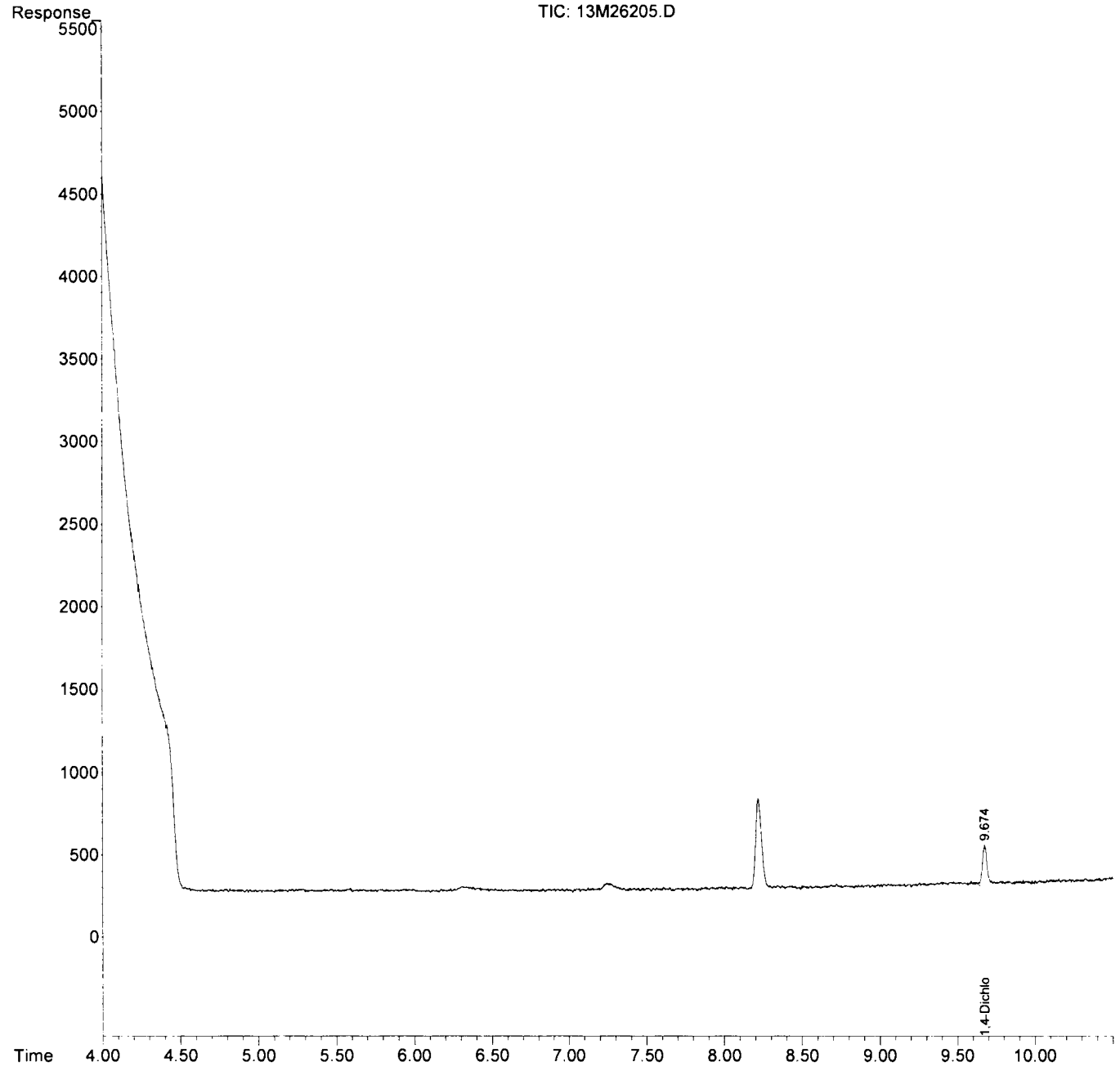


Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-15-22\
Data File : 13M26205.D
Signal(s) : FID1A.CH
Acq On : 15 Nov 2022 18:05
Operator : SG
Sample : AD34533-001
Misc : A,5ML!4
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 18:28:32 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: AD34533-002
Client Id: TMW-20D
Data File: 13M26206.D
Analysis Date: 11/15/22 18:27
Date Rec/Extracted: 11/15/22-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 666904

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-15-22\
Data File : 13M26206.D
Signal(s) : FID1A.CH
Acq On : 15 Nov 2022 18:27
Operator : SG
Sample : AD34533-002
Misc : A,5ML!4
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 19:42:22 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
1)S	1,4-Dichlorobenzene-d4	9.682	4288	25.924		m
Target Compounds						
2)	2-Methylpentane	0.000	0	N.D.		
3)	1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g	Gasoline Range Organics	0.000	0	N.D.	ug/L	

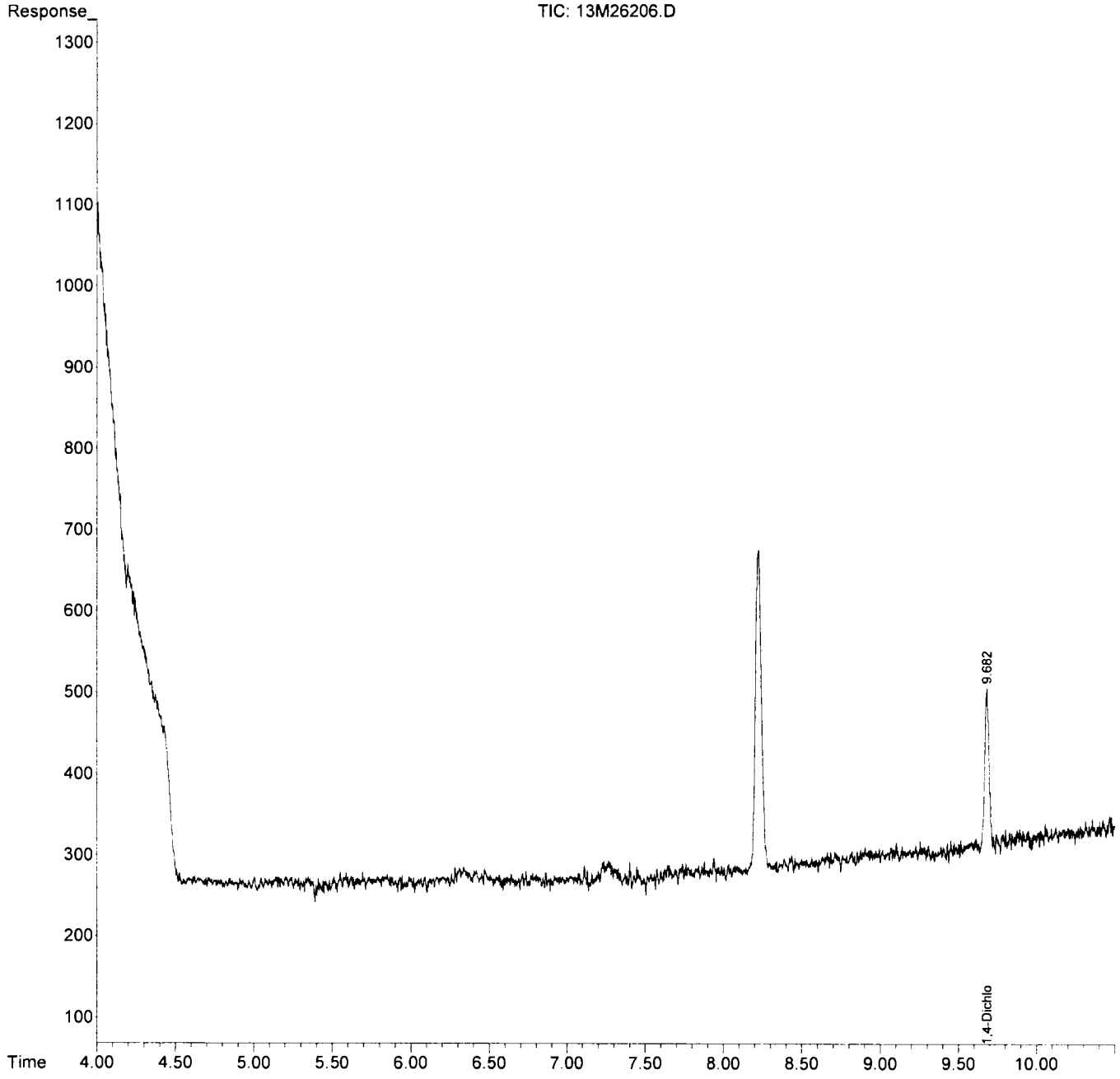
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-15-22\
Data File : 13M26206.D
Signal(s) : FID1A.CH
Acq On : 15 Nov 2022 18:27
Operator : SG
Sample : AD34533-002
Misc : A,5ML!4
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 19:42:22 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form1

ORGANICS REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 13M26202.D
Analysis Date: 11/15/22 17:17
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
phcg	Gasoline Range Organics	250	U				

Worksheet #: 666904

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-15-22\
Data File : 13M26202.D
Signal(s) : FID1A.CH
Acq On : 15 Nov 2022 17:17
Operator : SG
Sample : DAILY BLANK
Misc : A,5ML
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 17:38:30 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds					
1)S 1,4-Dichlorobenzene-d4	9.683	4194	25.361		m
Target Compounds					
2) 2-Methylpentane	0.000	0	N.D.		
3) 1,2,4-Trimethylbenzene	0.000	0	N.D.		
4)g Gasoline Range Organics	0.000	0	N.D.	ug/L	d

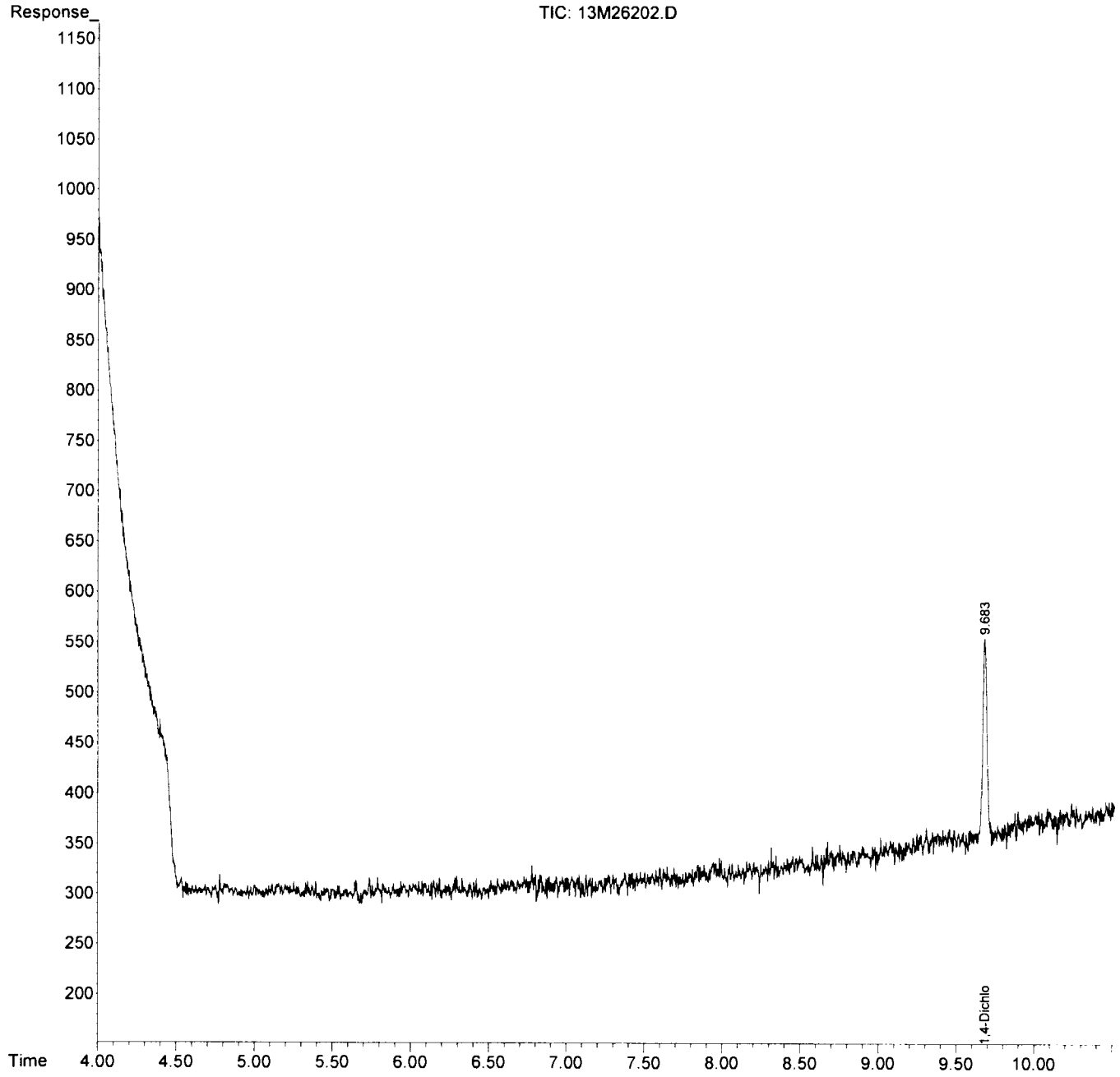
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : G:\GcMsData\2022\GC_13\Data\11-15-22\
Data File : 13M26202.D
Signal(s) : FID1A.CH
Acq On : 15 Nov 2022 17:17
Operator : SG
Sample : DAILY BLANK
Misc : A,5ML
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Nov 15 17:38:30 2022
Quant Method : G:\GcMsData\2022\GC_13\MethodQt\13M_G1024.M
Quant Title : @GC_13,ug,8015
QLast Update : Mon Oct 24 23:37:05 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column0 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
13M26202.D	DAILY BLANK	A	11/15/22 17:17	1		85					
13M26205.D	AD34533-001	A	11/15/22 18:05	1		101					
13M26206.D	AD34533-002	A	11/15/22 18:27	1		86					
13M26209.D	MBS105233	A	11/15/22 19:16	1		91					
13M26213.D	AD34533-001(MS)	A	11/15/22 20:26	1		73					
13M26214.D	AD34533-001(MSD)	A	11/15/22 20:42	1		66					

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=1,4-Dichlorobenzene-d4	30	50-150

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105233

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26209.D	MBS105233	11/15/2022 7:16:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1734.02**	**0**	**2000**	**87**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
Recovery Data Laboratory Limits
QC Batch: MBS105233

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26213.D	AD34533-001(MS)	11/15/2022 8:26:00 PM
Non Spike(If applicable):	13M26205.D	AD34533-001	11/15/2022 6:05:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1280.95**	**0**	**2000**	**64**	**40**	**130**

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26214.D	AD34533-001(MSD)	11/15/2022 8:42:00 PM
Non Spike(If applicable):	13M26205.D	AD34533-001	11/15/2022 6:05:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	**1**	**1009.31**	**0**	**2000**	**50**	**40**	**130**

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits
Bold and underline - Indicates the compounds reported on form1

Form3
RPD Data Laboratory Limits
QC Batch: MBS105233

	Data File	Sample ID:	Analysis Date
Spike or Dup:	13M26214.D	AD34533-001(MSD)	11/15/2022 8:42:00 PM
Duplicate(If applicable):	13M26213.D	AD34533-001(MS)	11/15/2022 8:26:00 PM
Inst Blank(If applicable):			

Method: 8015 Matrix: Aqueous Units: ug/L QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Gasoline Range Organics	**1**	**1009.31**	**1280.95**	**24**	**40**

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Bold and underline - Indicates the compounds reported on form1

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 13M26202.D
Matrix: Aqueous

Blank Analysis Date: 11/15/22 17:17
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD34533-001	13M26205.D	11/15/22 18:05
AD34533-002	13M26206.D	11/15/22 18:27
AD34533-001(MSD	13M26214.D	11/15/22 20:42
AD34533-001(MS)	13M26213.D	11/15/22 20:26
MBS105233	13M26209.D	11/15/22 19:16

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26015.D	CAL@ 250 PPB	10/24/22 20:14	Aqueous	13M2602	9.6659	0.1675		
13M26016.D	CAL@ 500 PPB	10/24/22 20:29	Aqueous	13M2602	9.6742	0.0816		
13M26017.D	CAL@ 750 PPB	10/24/22 20:44	Aqueous	13M2602	9.6732	0.092		
13M26018.D	CAL@ 1000 PPB	10/24/22 21:05	Aqueous	13M2602	9.6742	0.0816		
13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	Aqueous	13M2602	9.6740	0.0837		
13M26020.D	CAL@ 2000 PPB	10/24/22 21:37	Aqueous	13M2602	9.6750	0.0734		
13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	Aqueous	13M2602	9.6821	0		
13M26022.D	6000 PPB	10/24/22 22:08	Aqueous	13M2602	9.6832	0.0114		
13M26025.D	ICV	10/24/22 23:06	Aqueous	13M2602	9.6821	0		
13M26026.D	CAL @ 2000 PPB	10/24/22 23:21	Aqueous	13M2602	9.6729	0.0951		
13M26028.D	DAILY BLANK	10/24/22 23:56	Methanol	13M2602	9.6806	0.0796		
13M26029.D	DAILY BLANK	10/25/22 00:47	Aqueous	13M2602	9.6808	0.0816		
13M26030.D	MDL @ 250 PPB	10/25/22 01:02	Aqueous	13M2602	9.6706	0.0238		
13M26031.D	MDL @ 250 PPB	10/25/22 01:17	Aqueous	13M2602	9.6710	0.0197		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D

Instrument: GC_13 Column: DB-624 25M 0.200mm ID 1.12um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
13M26200.D	CAL @ 2000 PPB	11/15/22 16:44	Aqueous	13M2620	9.6996	0		
13M26201.D	BLK	11/15/22 17:01	Aqueous	13M2620	9.6893	0.1063		
13M26202.D	DAILY BLANK	11/15/22 17:17	Aqueous	13M2620	9.6827	0.1744		
13M26203.D	DAILY BLANK	11/15/22 17:35	Methanol	13M2620	9.6926	0.0722		
13M26204.D	AD34396-001	11/15/22 17:50	Methanol	13M2620	9.6806	0.1961		
13M26205.D	AD34533-001	11/15/22 18:05	Aqueous	13M2620	9.6742	0.2622		
13M26206.D	AD34533-002	11/15/22 18:27	Aqueous	13M2620	9.6824	0.1775		
13M26207.D	AD34502-012	11/15/22 18:42	Methanol	13M2620	9.6754	0.2498		
13M26208.D	AD34502-011	11/15/22 19:01	Methanol	13M2620	9.6801	0.2012		
13M26209.D	MBS105233	11/15/22 19:16	Aqueous	13M2620	9.6800	0.2023		
13M26210.D	MBS105234	11/15/22 19:36	Methanol	13M2620	9.6905	0.0939		
13M26211.D	AD34396-001(MS)	11/15/22 19:51	Methanol	13M2620	9.6753	0.2508		
13M26212.D	AD34396-001(MSD)	11/15/22 20:07	Methanol	13M2620	9.6740	0.2643		
13M26213.D	AD34533-001(MS)	11/15/22 20:26	Aqueous	13M2620	9.6846	0.1548		
13M26214.D	AD34533-001(MSD)	11/15/22 20:42	Aqueous	13M2620	9.6769	0.2343		
13M26215.D	STD	11/15/22 20:57	Aqueous	13M2620	9.6750	0.2539		
13M26216.D	BLK	11/15/22 21:14	Aqueous	13M2620	9.6775	0.2281		
13M26217.D	AD34544-029	11/15/22 21:31	Methanol	13M2620	9.6798	0.2043		
13M26218.D	AD34544-018	11/15/22 21:51	Methanol	13M2620	9.6788	0.2147		
13M26219.D	AD34544-019	11/15/22 22:10	Methanol	13M2620	9.6854	0.1465		
13M26220.D	STD	11/15/22 22:28	Methanol	13M2620	0.0000	200		
13M26222.D	MDL @250 PPB	11/15/22 23:05	Aqueous	13M2620	9.6850	0.1506		
13M26223.D	MDL @250 PPB	11/15/22 23:20	Aqueous	13M2620	9.6696	0.3098		
13M26224.D	STD	11/15/22 23:42	Methanol	13M2620	0.0000	200		
13M26225.D	STD	11/15/22 23:59	Aqueous	13M2620	0.0000	200		
13M26226.D	2000 PPB	11/16/22 00:14	Aqueous	13M2620	0.0000	200		
13M26227.D	STD	11/16/22 00:33	Aqueous	13M2620	0.0000	200		
13M26228.D	STD	11/16/22 00:55	Aqueous	13M2620	0.0000	200		
13M26229.D	CAL @ 2000 PPB	11/16/22 01:16	Aqueous	13M2620	9.6771	0.2322		

Drift Compound: 1,4-Dichloroben Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

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Form 6

Initial Calibration

Method: EPA 8015D

Instrument: GC_13

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	13M26021.D	CAL@ 4000 PPB	10/24/22 21:53	2	13M26020.D	CAL@ 2000 PPB	10/24/22 21:37
3	13M26019.D	CAL@ 1500 PPB	10/24/22 21:20	4	13M26018.D	CAL@ 1000 PPB	10/24/22 21:05
5	13M26017.D	CAL@ 750 PPB	10/24/22 20:44	6	13M26016.D	CAL@ 500 PPB	10/24/22 20:29
7	13M26015.D	CAL@ 250 PPB	10/24/22 20:14				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
1.4-Dichlorobenzene-d4	1	0	Avg	----	0.0193	0.0169	0.0162	0.0133	0.0191	0.0141	----	0.0165	9.71	-1	-1	15		30.00	30.00	30.00	30.00	30.00	30.00	
2-Methylpentane	1	0	Avg	0.0003	0.0003	0.0004	0.0003	0.0002	0.0003	0.0004	----	0.000360	5.60	0.990	0.994	13	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
1.2.4-Trimethylbenzene	1	0	Avg	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	----	0.000460	9.50	0.989	0.999	9.5	4000.	2000.	1500.	1000.	750.0	500.0	250.0	
Gasoline Range Organics	1	0	Avg	0.0264	0.0251	0.0264	0.0279	0.0268	0.0309	0.0260	----	0.0271	8.72	0.998	0.999	7.1	4000.	2000.	1500.	1000.	750.0	500.0	250.0	

Avg Rsd Col 1: 22.09 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Form7
Continuing Calibration

Method: EPA 8015D

Data File:			13M26200.D			13M26229.D										
Method:			8015			8015										
Calibration Name:			CAL @ 2000 PPB			CAL @ 2000 PPB										
Calibration Date/Time			11/15/22 16:44			11/16/22 01:16										
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
Gasoline Range Orga	20	1	0	1737	2000	13.2	2060	2000	3.0									

Flags/Notes: ** - Values outside of limits for this column/run*

Hampton-Clarke
Analytical & Field Services

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