APPENDIX D Field Forms, Boring Logs, Well Construction Logs, and Groundwater Sampling Forms

		SC	DIL	BORING L	OG		BORING/F	PIT NO:	63-00	1	
		, ,					SHEET	1	OF 6		
	DATE: N	711/21	<u> </u>	PROJECT NAME: WI				PROJEC	CT NO: 044	4100	
		NG PIT/SI		SEC: TWN:	RGE:		LAT:		LONG:		
	LUCA	TION PLA	AN:	DRILLING CO:	E2CR	1./					
	.	'n		DRILL CREW: DAY DRILLING/TRENCHIN	C METHO	la +	Ky Co	CEOR	DOS		
	1913-	-00		PIT DIMENSIONS:	LENGTH		ツァ WIDTH 💈		DEPTH A	27	
			ī		GROUNDW			Narge		0	
	/2	$^{\scriptscriptstyle \gamma} >$		DATE ACTUAL TIME					DEPTH BLS		
				10/11/21					121		
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	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO	PN	FID PID (PPM)	USCS	R	EMARKS	Moisture (M/W)	
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2/7				<u> </u>	- 1						
28				end	of bo	ung	1				
t					y		2/	91	M		
				PREPARED	BY:		3-6	1/1	1/02		

		S	DIL	BORING LO	OG		BORING/F	PIT NO: 5B -0	204
		120 /2					SHEET	2 OF	
	BORII	NG PAT/SI TION PLA	TE	PROJECT NAME: WI SEC: TWN: DRILLING CO: DRILL CREW:	MATA Nort RGE E2CR		Station LAT:	PROJECT NO: LONG:	0444100
	Se	-00	4	DRILLING/TRENCHIN PIT DIMENSIONS:	G METHO LENGTH ROUNDV		WIDTH 8	OEOPROBE C' DEPTH	hollas
]	DATE	A	CTUAL TI	ME	DEPTH	BLS
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO	N	FID PID PID PPM)	USCS	REMARK	Moisture (M/W)
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Ja		W W W W W W W W W W W W W W W W W W W		GWh	v 19.5	5			
30 Maga	, ,								
<i>></i> 8				13 cdrock	<i>~</i> 38	1	7	\bigcirc	
1	-			PREPARED	BY:	702	mal	1 A	

		SC	DIL	BORING L		BORING/PIT NO: SB - 2					
				- 5:			SHEET	3 OF 16			
		10132		PROJECT NAME: WI				PROJECT NO: 0444	4100		
		NG PIT/SI		SEC: TWN:	RGE	:	LAT:	LONG:			
	1	TION PLA		DRILLING CO:	E2CR	0 1					
	SB	-002		DRILL CREW: "Dan	yl +	Nosale	, , , , , , , , , , , , , , , , , , , 				
	\ \rac{1}{-}	To		DRILLING/TRENCHIN				GEOPROBE			
)* <u> </u>	1	PIT DIMENSIONS:	LENGTH		WIDTH 9" DEPTH				
	$I \cap I$					VATER LE		DEDTURE			
				DATE 10/13/21	A	CTUAL TI	VIE	DEPTH BLS			
				1901				V. 20			
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO	N .	FID PID PID PPM)	USCS	REMARKS	Moisture (M/W)		
0				Dark br	oun	selty	sand	w/ gravel			
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				FREFAREL	, D1.	- In	1 is				
				<i>5</i> 3							

DATE: 10/14/2 PROJECT NAME: WMATA Northern Bus Station PROJECT NO: 0444100 BORING PIT/SITE SEC: TWN: RGE: LAT: LONG: DRILLING CO: E2CR DRILL CREW: Waryl & Bruck DRILLING/TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE SEC: TWN: RGE: LAT: LONG: DRILLING CO: E2CR DRILL CREW: Waryl & Bruck DRILLING/TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING CO: E2CR DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING CO: E2CR DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING CO: E2CR DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING CO: E2CR DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING CO: E2CR DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING CO: E2CR DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING METHOD: Indian Station PROJECT NO: 0444100 BORING PIT/SITE LONG: DRILLING TRENCHING PROJECT NO: 0444100 BORING PIT/SITE LONG: 0444100 BO
BORING PIT/SITE LOCATION PLAN: SEC: TWN: RGE: LAT: LONG: DRILLING CO: E2CR, DRILL CREW: Waryl & Bruce DRILLING/TRENCHING METHOD: Hollow Sten GEOPROBE PIT DIMENSIONS: LENGTH 8" WIDTH DEPTH 28" GROUNDWATER LEVELS DATE ACTUAL TIME DEPTH BLS 10 14/21 20"
DRILLING CO: E2CR DRILL CREW: Waryl & Bruce DRILLING/TRENCHING METHOD: hollow sten Geoprose PIT DIMENSIONS: LENGTH 8" WIDTH DEPTH 28" GROUNDWATER LEVELS DATE ACTUAL TIME DEPTH BLS 10 (4/2) 20"
DRILL CREW: Range & Bruce DRILLING/TRENCHING METHOD: hollow stem Geophose PIT DIMENSIONS: LENGTH 81' WIDTH DEPTH 28' GROUNDWATER LEVELS DATE ACTUAL TIME DEPTH BLS 10 (4/2) 20'
DRILLING/TRENCHING METHOD: hollow den Geoprobe PIT DIMENSIONS: LENGTH 8" WIDTH DEPTH 28" GROUNDWATER LEVELS DATE ACTUAL TIME DEPTH BLS 10 14 21 20"
PIT DIMENSIONS: LENGTH 8" WIDTH DEPTH 28" GROUNDWATER LEVELS DATE ACTUAL TIME DEPTH BLS 10 (4/2) 20"
DATE ACTUAL TIME DEPTH BLS 10 (4/2) 20'
10 14/21 20'
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7 N N N N N N N N N N N N N N N N N N N
DESCRIPTION FID USCS REMARKS
SAMPLE SAMPLE (bbm) DESCRIPTION DEP
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7.5" correte core.
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5
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E = dark bown silty sand . =
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end of boring
PREPARED BY:

SOIL BORING LOG BORING/PIT NO: 5B-0045 SHEET OF 16 DATE: 10/15/21 BORING PIT/SITE PROJECT NAME: WMATA Northern Bus Station PROJECT NO: 0444100 SEC: TWN: RGE: LAT: LONG: **LOCATION PLAN:** E2CR DRILLING CO: DRILL CREW: Ming & Bruce DRILLING/TRENCHING METHOD: **GEOPROBE** PIT DIMENSIONS: LENGTH WIDTH 21/4" DEPTH **GROUNDWATER LEVELS** DATE **ACTUAL TIME DEPTH BLS** 10/15/21 4181 WATER TABL Moisture (M/W) SAMPLE NO DEPTH FID 🔲 DESCRIPTION PID 🗀 USCS **REMARKS** (PPM) In 74 concrete "3" gravel. light brown sitty sand 5 10 FGS@ 15' (moust 15 FGS + some gravel D-NBI 20 sardy silt f 25 26 ac'- TEDEOR PREPARED BY:

DATE: 10/14/21 PROJECT NAME: WMATA Northern Bus Station PROJECT NO: 0444100 BORING PHYSITE LOCATION PLAN: DRILLING CO: E2CR. DRILLING CO: E2CR. DRILLING FRENCHING METHOD: GEOPROBE PHT DIMENSIONS: LENGTH WIDTH 2 BEPTH 28' GROUNDWATER LEVELS: DATE ACTUAL TIME DEPTH BLS DATE ACTUAL TIME DEPTH BLS 10/14/21 PID X USCS REMARKS PH		SC) L	BORING LOG			BORING/PIT NO: 5B~004B			
BORNING PHISITE LOCATION PLAN: DRILLING CO: E2CR GROUNDWATER LEVELS DEPTH BLS 10 14 21						14"				
DRILLING CO: E2CR DRILLING CO:									0444100	
DRILL CREW: Price of March Morning DRILLINGTRENCHING METHOD: DRILLINGTRENCHING METHOD: GEOPROBE PIT DIMENSIONS: LENGTH WIDTH 2" DEPTH 28" GROUNDWATER LEVELS DATE ACTUAL TIME DEPTH BLS 10/14/21 DESCRIPTION PID							LAT:	LONG:		
DRILLING/TRENCHING METHOD: DEPTH 28' GROUNDWATER LEVELS DATE OATE O	LO	CATION PLA					and .			
PIT DIMENSIONS: LENGTH WIDTH 2" DEPTH 28' GROUNDWATER LEVELS DATE 10/14/21 DESCRIPTION FID DISCREMARKS PID MISS REMARKS R	(A)	A	J				Mana			
DATE ACTUAL TIME DEPTH BLS DATE ACTUAL TIME DEPTH BLS DISC PID										
DATE ACTUAL TIME DEPTH BLS 10/14/21 DESCRIPTION FID DID USCS REMARKS PID DID WISCS PID DID WISCS) [WIDTH 2" DEPTH 28'			
DESCRIPTION FID USCS REMARKS Solvents Solven		1	1 1							
DESCRIPTION FID USCS REMARKS John Staring Q v 3/5'	_	·	~				ME		BLS	
DESCRIPTION PIDES REMARKS RE			ļ	10/14/21				v18,		
DESCRIPTION PIDES REMARKS RE				1 /						
3" correcte 2" gravel 2" gravel 3" 5 - brown silly pound 3" stairing @ " 31/5" 2 grey yellow 3 socotss Silly sand fifther 10 3 socotss Silly sand (grey + yellow) Solly sand (grey + yellow) 15 4 silly sand (grey + yellow) 16 6 18 - interpret (street) - odor + slowing 18 - 19 - 19 wet 19 - 19 wet 20 3 socots 3 silly sand (street) - odor + slowing 4 wet 19 - 19 wet 20 3 socots 3 socots 4 socots 5 socots 6 soc	DEPTH	SAMPLE NO.	WATER TABLE	DESCRIPTIO	N	PID 🔀	USCS	REMARK	Moieture (MAM)	
So-cotss grey yellow starning on 8'	5<= :	10		a" araul	11.	4			_	
So-cotss Sully sand Galeton Staining on 8'				2-5-brown !	selly som	d ·	Stain	1 @ ~ 3/2		
WLU 18' 15-16-sily sand 18-19 wet 19-19 Trift plastic silt +FGS 28 EDE 28 1 weathered rach t prawny FGS ft mi		; SB-00 2 (8'-	455 0')) silly so	nd godge	tog)	stoem	MG-1181	=	
OWL 18' 15-16- sity sand 18-14 18-14 Wet Trift plastic sitt +FGS 28 28 EDDE 28' Hard refusal	> = = = = = = = = = = = = = = = = = = =								=	
35 26-28 & weathered rock to brown FGS & miles	> = :		WLO	18 15-16 - A 16-18- IN 18' Silt	ily sa liface (nd. sheer	- do	+ slaing		
28 26-28 & weathered rock to brown FGS & miles		4			13	' '				
28 = 26-28 & weathered rock + browng FGS & mile	E				3 right	plas	tic silt	+F4s	-	
28 26-28 & weathered rock + browng FGS & miles	25				<i>)</i>					
- RODE 28 Hard refusal)		veather	drock t	s A mu	
PREPARED BY:						fusal	10			
				PREPARED	BY:		139			

		S	OIL	BORING L		BORING/F	PIT NO: 58-00	D6D	
		,					SHEET	7 OF	16.
		0/15/2		PROJECT NAME: W				PROJECT NO:	0444100
		NG PIT/SI		SEC: TWN:	RGE:		LAT:	LONG:	
	LUGA	ATION PLA	AIV:	DRILLING CO: DRILL CREW: 17%	E2CR	Drues			
				DRILLING/TRENCHIN	IG METHO	D.		GEOPROBE	
	/	/) \		PIT DIMENSIONS:	LENGTH		WIDTH 2		331
- N			cl		GROUNDW			77 02. 1.11	7)
	'_		_!	DATE		CTUAL TIN			
				10/15/21	18		e .	u 181/2	
		_	1 111	, ,					
	DEPTH	SAMPLE NO.	WATER TABLE	DESCRIPTIO)N	FID	uscs	REMARK	ග Moisture (M/W)
20(SAM	WAT	8 211 2010		(PPM)			Moist
				\$ 811 core. \$ 2" gravel.					Ξ
00/5				brown/gellar	silly s	and.			-
0.12		1		+ RGS Mix	، لد	storing	@ 6-8		
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				brown (grey .	silty sa	od.			Ξ
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	25	<u>-</u>		J FGS	V	,			
			:	1. 2 FGS (9	selt me	ise,	stain	y oder	
ŀ	30.			weathurd	nock		0	DA.	-
				mica	weather	ed roc	ks f		•
				33' KOB -	refusa	il.			

		SC)IL	BORING LO	OG		BORING/P	IT NO: 5B-005.	e /
		1					SHEET	# 8 OF 15	7
		0/15/2		PROJECT NAME: WI	MATA North	nern Bus S		PROJECT NO: 0444	4100
		NG PIT/SI		SEC: TWN:	RGE:		LAT:	LONG:	
	LOCA	TION PLA	N:		E2CR	1 2			
		1		DRILL CREW: 177 DRILLING/TRENCHIN	avej -	t Bruce	<i>Q</i> .	CEODBOBE	
				PIT DIMENSIONS:	LENGTH		GEOPROBE WIDTH 2/4" DEPTH 13/2'		
		X			SROUNDW				
	'-			DATE		CTUAL TI		DEPTH BLS	
			1 111						
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO	N	FID PID (PPM)	uscs	REMARKS	Moisture (M/W)
10,3		29B-005 55 (2-4')		7-8" core 2" gescuel. FGS (brown)	+ silly	sand	od	n (gos) toin @n 3'+S	
AOT &	5	 		1-42 (1040)	- 1		t a	(oin 6 4 3 + 5	9.5-0
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				PREPARED	BY:		VOC	X M	

		SC	DIL		BORING/PIT NO: 58-00295				
		1					SHEET	20 9 OF	
-	DATE: (PROJECT NAME: W				PROJECT NO:	0444100
		NG PIT/SI		SEC: TWN:	RGE:		LAT:	LONG:	
	LOCA	TION PLA	N:	DRILLING CO:	E2CR				
				DRILL CREW: 1/2	and 4	Bruce			
		1	S	DRILLING/TRENCHIN			1400701	GEOPROBE	· · · ·
		1×	-	PIT DIMENSIONS:	LENGTH		WIDTH 2	'4" DEPTH	15'
			.1	DATE	GROUNDW	CTUAL TII			
<u> </u>		ULcul	•	IBK		STONE III	WE DEPTH BLS		
				184					
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO		FID PID PID PPM)	USCS	REMARK	G Moisture (M/VV)
0.1 < 0.3 <	5			6" conc. 2" gravel. grey F sily sand + w/n	es with smell	l			
0.3	10	5B-002 (8-10	\$51)	isly said +	1665 (ye nca	llor)			
0.				FGS 2/9x	weet.				\dashv
0.4				l .					\dashv
					E. 1 1	1.			\dashv
0.6-	_15 ¹ _			Treat to a wheel	ew need	grave			7
	_			weather whell	215' r	efusa		 0000068086	_
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10,						<i>}</i>			\dashv
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				PREPARED) BY: /	0/	1		

SOIL BORING LOG BORING/PIT NO: 5B-0020 SHEET 10 OF DATE: 10/18/21 PROJECT NAME: WMATA Northern Bus Station PROJECT NO: 0444100 BORING PIT/SITE SEC: TWN: RGE: LAT: LONG: LOCATION PLAN: DRILLING CO: E2CR DRILL CREW: Many Bruce DRILLING/TRENCHING METHOD: **GEOPROBE** PIT DIMENSIONS: LENGTH WIDTH 2 1/4" DEPTH **GROUNDWATER LEVELS** DATE **ACTUAL TIME DEPTH BLS** WATER TABL SAMPLE NO DEPTH FID 🔲 DESCRIPTION PID 🔀 USCS REMARKS (PPM) ~ 6" convete 1" growel FGS + gravel + mica Cyllus) - FGS + gravel 8-10 = pea gravel 15 53-002551 (16-18) 823 SB-002 452 @-19 wet product C197-9/2 19-20: weathered rock PREPARED BY:

SOIL BORING LOG BORING/PIT NO: SB-00(PROJECT NO: 0444100 SHEET DATE: PROJECT NAME: WMATA Northern Bus Station 10/18/21 BORING PIT/SITE SEC: TWN: RGE: LAT: LONG: LOCATION PLAN: DRILLING CO: E2CR Manoj & Bruce DRILL CREW: DRILLING/TRENCHING METHOD: **GEOPROBE** PIT DIMENSIONS: LENGTH WIDTH 2/4" DEPTH 6 **GROUNDWATER LEVELS** DATE **ACTUAL TIME** DEPTH BLS WATER TABL SAMPLE NO DEPTH FID 🔲 DESCRIPTION PID 🗀 USCS **REMARKS** (PPM) 6"conoule gravel. "concrite 5B-00[5] reddish/grey odly oard +
whithend rock

Refusal . EOB@6' C1-6 PREPARED BY:

		SC	H	BORING L	BORING LOG			BORING/PIT NO: SB-00/			
							SHEET		12/16		
	DATE: /C			PROJECT NAME: W				PROJECT NO: 04	444100		
		IG PIT/SI		SEC: TWN:	RGE:		LAT:	LONG:			
	LOCA	TION PLA	N:	DRILLING CO:	E2CR			<u></u>			
					noj + o		*				
			1	DRILLING/TRENCHIN			100mmi A	GEOPROBE	- 1		
		X		PIT DIMENSIONS:	LENGTH GROUNDW		WIDTH 2	1/4" DEPTH) '		
			!	DATE		TUAL TI		DEPTH BI	-		
- 4				DATE	Α.	JIOAL III	VIC.	DEFINE	.5		
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO		FID PID (PPM)	USCS	REMARKS	Moisture (M/W)		
0.5 < 0.0 < 0.A -	5,			6"core 6"grand 8"core red + gry FGS 4-5'- whather EOB	ed rock	loushed	rahs				
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SOIL BORING LOG

BORING/PIT NO: SB-003D

		1/19/2		PROJECT NAME: WI			Station	PROJECT NO: (0444100
		G PIT/SI		SEC: TWN:	RGE:		LAT:	LONG:	
	LOCA	TION PLA	N:	DRILLING CO:	E2CR ·				
		^			Jarrof	,			
	/	1		DRILLING/TRENCHIN				GEOPROBE	
		K/	1	PIT DIMENSIONS:	LENGTH		WIDTH	DEPTH	
					GROUNDW				
				DATE	AC	CTUAL TII	VIE	DEPTH E	BLS
			ш						
	ОЕРТН	SAMPLE NO	WATER TABLE	DESCRIPTIO	N	FID PID PID PID	USCS	REMARKS	Moisture (M/W)
		SAI	N A			,			Mois
105				6"-concrete 6"-grand					
2.1	<u> </u>			J silty pand. J 4-5 ≥ crust J 7 Pully sone + gravel +FGS - 8/2 FOE					-
3.5	_5_			1 4-5 2 oust	ed guard	lg ·	***		-
5.A.	F81/2	5B-003	55	J7 Belly sand	th.	U . 1 91 P	-B		_
20		(6-84)	I gravel + FGS	+ wear	ree 1			
				- 8/2 FOE	3 - Reg	fusal			
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				PREPARED	BY:		8 230	1, 140 to 170 to 1	

SOIL BORING LOG

BORING/PIT NO: 53-0035 SHEET 14 OF 16

	DATE: 10	plialai		PROJECT NAME: W			Station	PROJECT NO:		
	BORII	VĞ PIT/SI	TE	SEC: TWN:	RGE:		LAT:	LONG:		
	LOCA	TION PLA	N:	DRILLING CO:	E2CR ·					
				DRILL CREW: 1	nonej	<u> </u>		0505555		
				DRILLING/TRENCHIN PIT DIMENSIONS:			MUDTU	GEOPROBE		
	11	xk		The state of the s	LENGTH GROUNDW		WIDTH	I DEPTH		
				DATE		TUAL TIM		DEPTH	RI S	
				57112	7.1	JI OME TII	VIL.	DEI III	000	
	DEРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO	DN	FID □ PID 🔭 (PPM)	USCS	REMARK	O Moisture (M/W)	
1.6/				64-coxcrete						
5				6"- gravel						
1.32				8" correcte sully sond 7 6' weathered ro						
102				sully sound 7 4	warlz					
100	5			*						
κ	·			16' +h. 1.0	-A 1				_	
A				wearing re		_			\dashv	
	-8 -	-		EOBC	8' Rok	inal			\dashv	
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		SC	DIL	BORING L		BORING/PIT NO: 007				
		1 1					SHEET	15 OF		
_	DATE: 10			PROJECT NAME: W				PROJECT NO:	0444100	
		NG PIT/SI		SEC: TWN:	RGE:		LAT:	LONG	:	
	LOCA	TION PLA	N:	DRILLING CO:	E2CR					
		←		DRILL CREW:						
		\nearrow		DRILLING/TRENCHIN PIT DIMENSIONS:			MUDTIL	GEOPROBE		
	[X			LENGTH GROUNDW		WIDTH 6	DEPTH	467	
	'			DATE		TUAL TI		DEPTH	BIS	
					718	J T OTTLE THE	***	DEI III	DEG	
					- 177					
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO		FID PID PID PPM)	USCS	REMARI	රි Moisture (M/W)	
2.3		58-007	55-	7" core + "11" op FGS+ silty So	nd wime	ce				
350/	_5	(4-6)		V						
6		(140)		C6-crusted rocks	winece		-E	OB @ 6' N	dunal-	
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50				PREPAREC	BY:	1 1/	2 /	XOI		
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SOIL BORING LOG BORING/PIT NO: 58-0075 SHEET 16 OF 16 DATE: PROJECT NAME: WMATA Northern Bus Station PROJECT NO: 0444100 **BORING PIT/SITE** SEC: TWN: RGE: LAT: LONG: **LOCATION PLAN:** DRILLING CO: E2CR DRILL CREW: DRILLING/TRENCHING METHOD: **GEOPROBE** PIT DIMENSIONS: LENGTH WIDTH 24" DEPTH **GROUNDWATER LEVELS** DATE **ACTUAL TIME** DEPTH BLS WATER TABL Moisture (M/W) SAMPLE NO DEPTH FID DESCRIPTION PID 🗀 USCS **REMARKS** (PPM) 7"coverete + 11"growd FGS (brown) + mica \$ FGS + weathered rock EOBQ 4" Referred 4世

PREPARED BY:

		S	OIL	BORING L	OG		BORING/	PIT NO: SB-O	08
							SHEET	OF	
		2/6/2		PROJECT NAME: W			Station	PROJECT NO: 04	44100
		ING PIT/S		SEC: TWN:	RGE		LAT:	LONG:	
- 1	LOC	ATION PL	AN:	DRILLING CO:	E2CR	<u> </u>			
				DRILL CREW:					
				DRILLING/TRENCHIN				GEOPROBE	
	7.7			PIT DIMENSIONS:	LENGTH		WIDTH	DEPTH	
1				DATE	GROUNDW			DEST: 4 54 6	
- 1				DATE	AC	CTUAL TI		DEPTH BLS	<u> </u>
				<u> </u>	-				
- 1		T				1			
	т-	SAMPLE NO	WATER TABLE			L			Moisture (M/W)
	DEPTH	Щ	1 Z	DESCRIPTION		FID 🗆		-	Š
	핃	₽ E		DESCRIPTIO	IN	PID (PPM)	USCS	REMARKS	<u>a</u>
0.0	_	<u>k</u>	'≶			(FFIVI)			istr
6,		-							Š
0.2		-		sily sand "I' of orgo brain sil	(dock be	ellin)			
		1		" 1' of oran	vie Pour	214	0-4	- very law	
0.3/		-		7				recovery.	_
2		1		harm al	to an	1		socooling.	_
0.42				/300	7 0000				
		1							_
0.2						- 1			-
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0.6%						- 4			
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07/				"16.5 WE	t				
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0.6	_ =	Sample	.	redo	Lish / yel	law			_
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				aney FGS Cur	A) (0,0	23			-
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_ /				A	1				-
0,130				& Defusal	The second second second	0'	0/	2	
			4	PREPARED	BY:	6	me	lv-	
			1	rate of th		-			

MONITORING I	WELL CONSTR	RUCTION DATA	A	WELL/BORING N	10: 3B-008D
				PERMIT NO:	
DATE:	PROJECT NAME: V	VMATA Northern Bus	Station	PROJECT NO:	0444100
WELL SITE LOCATION	PLAN:	SEC: TWN:	RGE:	LAT:	LONG:
		DRILLING CO: E	2CR	· · · · · · · · · · · · · · · · · · ·	<u> </u>
		DRILL CREW: Da	ryl Do	rald of Kylo	. <u>. </u>
\ <u></u>		WELL TYPE:		SINGLE CASED	
×		PERMANENT			
<- 14 th 3t WELL SCI	HEMATIC	TEMPORARY		OTHE	OTHER
WELL SO	TEMATIC		INST	ALLATION DATA	
	TOC ABOV		STEAM C	CLEAN HIGH PREASH OTHER	ESSURE WASH
	GROUND A	CASING TYPE:	PVC THREAD	STAINLESS T	EFLON OTHER
	OR STICKU	PIT CASING:	SCREWE		
+ +	FI	WELL SCREEN: DIAMETER:	2"	STAINLESS TO	EFLON OTHER
	BOREHOLE	SLOT:	≥ 0.010	0.020 OTHER	R IN
ANNULAR BACKFILL MOLL	DIAMETER 4 IN	METHOD:	SOLID ST	HOLLOW ST	EM MUD ROTAF SH HAND AUGE
FT.			2" 2"	6" 8"	12" OTHER IN
CEMENT	CASING DIAMETER	DRILLING MUD: CENTRALIZER:	OTHER		□ RENTONITE
TOTAL BENTONITE GROUT	SCH.		☐ FLUSH M		IP RISER BOX
FROM NATIVE SOIL TOC OTHER			OTHER	4'X4' NOTHER	
FT. T		CUTTINGS:	☐ DRUMME	D NUMBER OF DI	RUMS
SEAL SEAL	BENTONITE □ MASONRY SAND □ OTHER	DEVELOPMENT METHOD:	☐ NONE		JMPING AIR LIFT
		TIME:	☐ 10 MIN	20 MIN	OTHER MIN
		AMOUNT WATER BEFORE:	☐ 5 GAL	_	OTHER GAL
FILTER		WATER AFTER	SILTY	TURBID	OPAQUE CLEAR
WOLL THOUSE	WELL	EVIDENT ODOR:	YES _	NO TYPE	
Poth FT.	LENGTH	DEVELOPMENT WATER:	☐ DRUMMEI	NUMBER OF DE	
4	5 FT	4	_		
10		WATER LEVEL:	INITIAL	FTB1	roc BLS
+ +	V	DATE:			FT BELOW TOC
OVER	MAIELL GLUSS	DATE:			FT BELOW TOC
DEVILL	WELL SUMP		SCRIBE ALL NO	N-STANDARD METHODS	& MATERIALS)
(CROSS OUT IF NOT DRILLED)	♀ / IN	. Well remove	d from site upor	n completion of sampl	ing (temp wells only).
· · · · · ·				20	
		PREPARED BY:	most	entiti	

						PERMIT NO:	
DATE:		PROJECT NAME:	WMA [*]	TA Northern Bus S	tation	PROJECT NO:	0444100
WELL S	ITE LOCATION	PLAN:	SEC	: TWN:	RGE:	LAT:	LONG:
			DRI	LLING CO: E2	2CR		
			DRI	LL CREW: XX	ul Do	rold of Ky	le
			WEI	LL TYPE: 🧗	SHALLOW	. SINGLE CASE	MONITORING
						ATE DOUBLE CAS	
	WELL SCH	FMATIC		TEMPORARY		OTHER	OTHER
	11222 0011						
_		TTT +		DECON.	STEAM C	LEAN HIGH PRE	SSURE WASH
		TOC ABO				_	
	e e e e e e e e e e e e e e e e e e e	GROUNI RISER B		CASING TYPE: JOINTS:	PVC	STAINLESS TE	FLON OTHER
drawn as a		OR STIC	KUP		SCREWE	D OTHER	
			FT.	PIT CASING:	LIYES [NO DESCRIBE	
+						STAINLESS TE	
		Chepterday		DIAMETER: SLOT:]4"	
	ANNULAR	BOREHO					
	BACKFILL	DIAMET	ER	METHOD:	☐ SULID ST	EM HOLLOW STE	:M ☐ MUD ROTAL
			IN.	BIT SIZE:	OTHER	6" 8"	12" SOTHER I
	FT.			DRILLING MUD:	NONE	WATER [BENTONITE
	CEMENT	CASIN-	_	CENTRALIZER:	OTHER YES	NO.	
TOTAL WELL	BENTONITE D	1			-		
DEPTH	GROUT□ SILICA SAND□	SCH.	IN.	COMPLETION: LOCK TYPE:	DOLPHIN	MASTER	P RISER BOX
FROM TOC	NATIVE SOIL□ OTHER□				™ OTHER *	one.	1020 b
20.5	DIHERLI		-1	PAD:	2'X2'	4'X4' STOTHER	none
FT.	- 1 -			CUTTINGS:	DRUMME!	NUMBER OF DR	UMS
	SEAL.	BENTONITE					
	2 FT.	☐ MASONRY SA☐ OTHER	ND		☐ NONE	BAILING PU	
	1	I Comen		TIME:	☐ 10 MIN		OTHER MIN
	I				☐ 5 GAL		OTHER GAL
	FILTER			WATER AFTER:	SILTY	= =	OPAQUE CLEAR
	PACK	WELL SCREE	1 1	EVIDENT ODOR:	TYES _	NO TYPE	
	12 FT.	LENGT		DEVELOPMENT	DRUMME		
	TYPE	10	FT.	WATER:	SPREAD	TREATED [POTW OTHER
1	Well filt			WATER LEVEL:	INITIAL	FT 🔲 BT	OC BLS
+		V		DATE:			FT BELOW TOC
-	OVER			DATE:			FT BELOW TOC
	DRILL	WELL SUM		NOTES: (DES		N-STANDARD METHODS	& MATERIALS)
	CROSS OUT IF			_			
	NOT DRILLED)		IN.	Three semored	nom site upor	completion of sampli	ng (temp wells only)
	+						

	SC	DIL	BORING L	OG		BORING/	PIT NO: 5B - 0	09
						SHEET	⊋ OF	
	12/7/2		PROJECT NAME: W	MATA Nor	thern Bus S	Station	PROJECT NO: 0	444100
	ING PIT/SI		SEC: TWN:	RGE		LAT:	LONG:	
LOC	ATION PLA	N:	DRILLING CO:	E2CR				<u> </u>
/	<		DRILL CREW:					
1			DRILLING/TRENCHIN				GEOPROBE	
			PIT DIMENSIONS:	LENGTH		WIDTH	DEPTH	
_	X			GROUNDY	_			
< I	4th St -	\rightarrow	DATE	A	CTUAL TI	ME	DEPTH B	LS
ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO	DN	FID PID PID PPM)	USCS	REMARKS	Moisture (M/W)
5			quartz + re	soil self				
			1		- 1			-
	(8-10)							-
	38-00)		k a					_
10	(8		1					-
			brain 1900 evet	selt / mo	h plase	uly		_
			- Heberet	///	′′	J		-
							1 11 11	
15			4	- (6 - ma	11/15 - 1D	My scine	1 + silt (brow	71)
	1		416					-
	1		1.9		1, 1	1 1		_
	1 1	,	molde	brown	2/ high	plaser		_
26			vet	(16-20))	sell			_
		7	7		,			
			berow	Bandis	rilt			
		angiptori yajahujor		//				
25			1 î weat	hered s	ock 1	mice		_
X VIEW			rigus	el @	25'			
			V					
						1		
30						//	10	
			PREPARED	BY:		m	~~	
				(/			

						TMW/
MON	ITORING V	VELL CONSTRI	JCTION DATA	A	WELL/BORING N	0: 5B-009i
					PERMIT NO:	
DATE:	12/7/21	PROJECT NAME: WI	MATA Northern Bus S	Station	PROJECT NO:	0444100
WELL S	ITE LOCATION	PLAN:	BEC: TWN:	RGE:	LAT:	LONG:
	<i>/</i> ··<	C	RILLING CO: E	2CR		
l i		٦ ـ ـ ـ	ORILL CREW: 2	anull of	Les De	rald
/		」	VELL TYPE:	SHALLOW	NGLE CASED	
/_	144 st -		PERMANENT TEMPORARY		ATE DOUBLE CA	
	WELL SCH	EMATIC			ALLATION DATA	ing OTTIGIT
_			DECON.		LEAN HIGH PRE	SSURE WASH
1		TOC ABOVE		SOAP WA		
		GROUND IF RISER BOX OR STICKUP	JOINTS:		STAINLESS TE D WELDED D OTHER	
		F	PIT CASING:	YES C	NO DESCRIBE	
1	1	BOREHOLE	DIAMETER:	PVC X		THER IN
	ANNULAR BACKFILE	DIAMETER 4 IN.	DRILLING METHOD:	SOLID STI	EM HOLLOW STI	EM MUD ROTARY H HAND AUGER
	FT.	CASING	BIT SIZE: DRILLING MUD:	2" 🔀 4"	6" 8" C	12" OTHER IN BENTONITE
TOTAL	CEMENT BENTONITE	DIAMETER	CENTRALIZER:		MNO	
WELL DEPTH FROM	GROUT SILICA SAND NATIVE SOIL	SCH.		DOLPHIN OTHER	DUNT STICKU	P RISER BOX
тос	OTHER -		PAD:	☐ 2'X2'	4'X4' TOTHER	none
2005			CUTTINGS:	DRUMMED	NUMBER OF DR	UMS
FT.	SEAL	₩ BENTONITE		SPREAD	OTHER	
	3 FT.	☐ MASONRY SAND ☐ OTHER	DEVELOPMENT METHOD:	NONE [BLOCKOTHE	
			TIME:	☐ 10 MIN ☐ 5 GAL		OTHER MIN OTHER GAL
	FILTER	<u> </u>	WATER BEFORE: WATER AFTER:	☐ SILTY		OPAQUE CLEAR
	Well, grand	WELL	EVIDENT ODOR		NO TYPE	OF AGUE GULLAN
	POW FT.	SCREEN	DEVELOPMENT WATER:	☐ DRUMMED	NUMBER OF DR	
	7	5 FT	WATER LEVEL:	INITIAL	FT FIST	OC BLS
	T	1	DATE:	11 11 1 16 114	,	_
	OVER	V	DATE:			FT BELOW TOC
	DRILL	WELL SUMP □ MYES □ NO		SCRIBE ALL NON	I-STANDARD METHODS	FT BELOW TOC & MATERIALS)
	(CROSS OUT IF NOT DRILLED)	į IN.			completion of sampli	
	+			1		
		In	REPARED BY:	12	Q/A	
		I C		✓ —		

				PERMIT NO:	
TE: 12/7/21	PROJECT NAME: V	VMATA Northern Bus S	Station	PROJECT NO:	0444100
LL SITE LOCATION	I PLAN:	SEC: TWN:	RGE:	LAT:	LONG:
		DRILLING CO: E		- 4	1
1		DRILL CREW:	well-	+ Dorald	_
		WELL TYPE: 🖳	SHALLOW	Single Cased	MONITORING
14 14		PERMANENT			
<-144 N WELL SC	HEMATIC	LATEMPORARY		OTHER	OTHER
	TIEMATIO				
<u> </u>	4	DECON.		CLEAN HIGH PRE: 'ASH OTHER	SSURE WASH
1	TOC ABOV				
1	GROUND RISER BOX			STAINLESS TE	
	OR STICKU	P	SCREWE	D OTHER	
	FI	·		NO DESCRIBE	
+				STAINLESS TE	
- Change		SLOT:		0.020 OTHER	
ANNULAR	BOREHOLI DIAMETER			TEM THOLLOWSTE	M MUD ROTARY
BACKFILL	1 A	METHOD:	AIR ROTA	ARY DIRECT PUSH	HAND AUGER
	4 IN		OTHER	4" 6" 8"	12" OTHER IN
FT.	04000		NONE	WATER [
CEMENT □	CASING DIAMETER	CENTRALIZER:	☐ OTHER☐ YES	NO	
TAL BENTONITE D	NI (•	□ Diase Dov
ELL GROUT	SCH.			NOUNT ☐ STICKUI	
NATIVE SOIL OC OTHER		PAD:	OTHER	☐ 4'X4' ☐ OTHER	
0					
FT.		CUTTINGS:	SPREAD	D NUMBER OF DR	UMS
SEAL.	BENTONITE				
3 FT.	☐ MASONRY SAND	DEVELOPMENT METHOD:	☐ NONE☐ SURGE 8		MPING AIR LIFT
1		TIME:	10 MIN	☐ 20 MIN	OTHER MIN
		AMOUNT WATER BEFORE:	☐ 5 GAL ☐ SILTY		OTHER GAL OPAQUE □ CLEAR
FILTER	WELL	WATER AFTER:	SILTY		OPAQUE CLEAR
PACK	SCREEN	EVIDENT ODOR:	YES [NO TYPE	
I,2 FT.	LENGTH	DEVELOPMENT	DRUMME		
Idell amus	10 FI	WATER:	SPREAD		
port		WATER LEVEL:	INITIAL	FT 📋 BT	DC BLS
+	Va	DATE:			FT BELOW TOC
OVER		DATE:			FT BELOW TOC
DRIUL	WELL SUMP		SCRIBE ALL NO	N-STANDARD METHODS	MATERIALS)
(OROSS OUT IF	j IN			n completion of sampli	·
NOT DRILLED)					
			1	1	

		S	DIL	BORING L	OG		BORING/	PIT NO: 58 - 01	
							SHEET	3 OF	
		2/7/2		PROJECT NAME: W	MATA Nor	thern Bus		PROJECT NO: 044	4100
		NG PIT/SI		SEC: TWN:	RGE		LAT:	LONG:	
	LOCA	ATION PLA	AIN:	DRILLING CO:	E2CR	1 ()	- A		
	1			DRILL CREW: 2 DRILLING/TRENCHIN	WE METHO		sold.	CEORDORE	
	1		7	PIT DIMENSIONS:	LENGTH		WIDTH	GEOPROBE DEPTH	
	'				GROUNDV			DLFIII	
		ash a		DATE	A	CTUAL TI	ME	DEPTH BLS	
	4-1-	got St.	-9		 				
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO		FID PID PID PPM)	USCS	REMARKS	Moisture (M/W)
0.3		5B-0105 (4-6)		11. of lossoil					
0.2/	10			I gry san	jularity sold	,			
0.2 -				\$13' weather \$06@13'	drak d	quant		~~~~~~~~~~~~	
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-	35		‡		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
- 1			- 1						_
F									-
									-
	30								-
				PREPARED	BY:			-	

MONITORING W	ELL CONSTRU	JCTION DATA		WELL/BORING NO	D:		
				PERMIT NO: 38	PERMIT NO: 58/100 -0105		
DATE: 12/7/21	PROJECT NAME: WI	MATA Northern Bus S	station	PROJECT NO:	0444100		
WELL SITE LOCATION I	PLAN: S	SEC: TWN:	RGE:	LAT:	LONG:		
		RILLING CO: E	2CR				
		RILL CREW:					
, *	V	VELL TYPE: 😽					
(-14th st -	\rightarrow	PERMANENT TEMPORARY					
WELL SCH		TEMPURARY		ALLATION DATA	LIOTHER		
		55001					
-	1	_ DECON.	SOAP W	CLEAN HIGH PRE ASH OTHER_	SSURE WASH		
	TOC ABOVE GROUND IF		Talevo Da	¶STAINLESS ☐ TE	FLON DOTHER		
	RISER BOX	JOINTS:	THREAD!	ED WELDED	COUPLED		
	OR STICKUP			D OTHER NO DESCRIBE			
	FT.		Pro X	STAINLESS TE	FLON DOTHER		
1		DIAMETER:] 4"	THER IN		
	BOREHOLE						
ANNULAR BACKFILL	DIAMETER			TEM HOLLOW STE ARY DIRECT PUSE	EM MUD ROTARY H HAND AUGER		
) IN.		OTHER	6" 8"			
F		DRILLING MUD:	NONE		BENTONITE		
CEMENT	CASING DIAMETER	CENTRALIZER:	OTHER YES	NO			
TOTAL BENTONITE GROUT	l IN.	COMPLETION:	□ ELLISH M	OUNT STICKU	P RISER BOX		
DEPTH SILICA SAND	SCH.	LOCK TYPE:	DOLPHIN		KEY NO		
FROM NATIVE SOIL		PAD:	OTHER 2'X2'	4'X4' TOTHER	none		
lu l I -				D NUMBER OF DR			
FT.		COTTINGS.	SPREAD		CONS		
SEAL	☐ BENPONITE ☐ MASONRY SAND	DEVELOPMENT	NONE	BAILING PL	IMPING AIR LIFT		
FT.	DOTHER	METHOD: TIME:	SURGE &		EROTHER MIN		
		AMOUNT	☐ 5 GAL	10 GAL	OTHER GAL		
FILTER	-	WATER BEFORE: WATER AFTER:	☐ SILTY	= =	OPAQUE ☐ CLEAR OPAQUE ☐ CLEAR		
PACK	WELL	EVIDENT ODOR:		NO TYPE			
Ø ^{ℓℓ} FT.	SCREEN LENGTH	DEVELOPMENT	☐ DRUMME				
Will about	[0 FT.	WATER:	SPREAD	TREATED [POTW OTHER		
put		WATER LEVEL:	INITIAL _	FT BT	OC BLS		
1	V	DATE:			FT BELOW TOC		
OVER	TAKELL CULKE	DATE:			FT BELOW TOC		
DRILL	WELL SUMP	NOTES: (DE	SCRIBE ALL NO	N-STANDARD METHODS	& MATERIALS)		
(CROSS OUT	IN.	Well removed	from site upo	n completion of sampl	ing (temp wells only).		
NOT DRILLED)		NO 6	W ensu	scorling			
		100 4	- 10/00		ng!		
	l _D	DEDADED BV					

		SC) L	BORING L	OG		BORING/	PIT NO: 58-011	
							SHEET	OF	
	DATE: (2			PROJECT NAME: WI	MATA Nor	thern Bus	Station	PROJECT NO: 0444	100
	BORIN	IG PIT/SIT	E	SEC: TWN:	RGE	:	LAT:	LONG:	
	LOCA.	TION PLA	N:	DRILLING CO:	E2CR		4		
-40	│		4 2			+ Do	rald	•	
			Buharen	DRILLING/TRENCHIN				GEOPROBE	
*	'		10	PIT DIMENSIONS:	LENGTH		WIDTH	DEPTH	
			3		GROUND			1	
		J	7	DATE	Α	CTUAL TII	ME	DEPTH BLS	
		-0							
			ш						
	рертн	SAMPLE NO.	WATER TABLE	DESCRIPTIO		FID PID TY (PPM)	USCS	REMARKS	Moisture (M/W)
1.7/				10-4! brains)	14	1			
1.1			1	L0-4: braun)	selly so	ud			
0.1				(w/ q	ualty	• 0			
0	$oxed{\Box}$			J #	0				
1.3	5			7					
	\vdash \dashv			19-8: brain &	ty pand		41.4		
102	\vdash \dashv			+ FGS	Aux l	Des recor			_
1228	\vdash \dashv			1	.1)		0		_
12868	⊢. , ⊢			12-12 = blastic	silt emi	w)		. > Amel	-
	10	Cn -41.00		- a a police	odor n	oted @	170 + B	taining \ New	10
1648	\vdash	58-01155) A grania	4.4	34.500	60	1 1	
100/	\vdash	(10-12)		8-12: brain se + FGS 8-12: plastic ** gasoline \$ 12-1865 - plan 1-41 - mo	the subt	+ 486	De noc	k etigers	
473	\vdash \dashv			14' - 100	ist + hea	up oder	14	(01 0	
-						20B 1	O POUR	Kehisal	
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	\vdash \dashv								
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	L ₂ 0								_
	5 0			PREPAREI	D BY:				

					mw, Il
MONITORING W	ELL CONSTR	RUCTION DAT	Ά	WELL/BORING N	10: SB-0 🕮
				PERMIT NO:	
DATE: 12/8/21	PROJECT NAME: V	VMATA Northern Bus	Station	PROJECT NO:	0444100
WELL SITE LOCATION F	PLAN:	SEC: TWN:	RGE:	LAT:	LONG:
		DRILLING CO:	E2CR		
)	DRILL CREW:			
	\x	WELL TYPE:	SHALLOW	SINGLE CASED	MONITORING
				IATE DOUBLE CA	ASED RECOVERY R DOTHER
WELL SCHI	EMATIC		INST	ALLATION DATA	
1		DECO		CLEAN HIGH PR	ESSURE WASH
	TOC ABOV GROUND RISER BO OR STICKU	IF CASING TYPE X JOINTS JP	S: THREAD	ED WELDED	EFLON OTHER COUPLED
+ + +	F	T. WELL SCREEN	N: ETPVC	STAINLESS 1 4" 6" 0	
ANNULAR	BOREHOL	.E SLO	T: 🔯 0.010 🖸	0 020 OTHE	
BACKFILL	A IN	4.	OTHER		SH HAND AUGE
CEMENT C	CASING DIAMETEI	DRILLING MUD		WATER	
TOTAL BENTONITE□ WELL GROUT□ DEPTH SILICA SAND□ FROM NATIVE SOIL□			FLUSH NE: DOLPHIN	MOUNT STICK	KEY NO
TOC OTHER		=			
FT.		CUTTINGS	S: DRUMME SPREAD	ED NUMBER OF D	RUMS
SEAL FT.	BENTONITE MASONRY SAN OTHER WELL	DEVELOPMEN METHOD TIME AMOUN WATER BEFORE WATER AFTER EVIDENT ODOR	D: SURGE 8 E: 10 MIN T 5 GAL E: SILTY R: SILTY	BLOCK OTH	OUMPING AIR LIFT HER OTHER MIN OTHER GAL OPAQUE CLEAR OPAQUE CLEAR
PACK Will FT.	SCREEN LENGTH		T DRUMME	ED NUMBER OF D	
12	10 F	T. WATER LEVEL			TOC BLS
	+		-	·	_
*	V	DATE			FT BELOW TOC
OVER DRILL	WELL SUMI		-		FT BELOW TOC
(CROSS OUT NOT DRILLED)	☐ YES TS N			on-Standard METHOD on completion of samp	S & MATERIALS) Dling (temp wells only)
		4			4
		PREPARED BY:			
		E DELVER DI			

SOIL	BORING LOG	BORING/	PIT NO: 5B - 6	012
	,	SHEET	OF	
BORING PIT/SITE LOCATION PLAN:	PROJECT NAME: WMATA Northern Bus SEC: TWN: RGE: DRILLING CO: E2CR	LAT:	PROJECT NO: 04 LONG:	44100
	DRILLING/TRENCHING METHOD: PIT DIMENSIONS: LENGTH GROUNDWATER L		GEOPROBE DEPTH	
	DATE ACTUAL 1	IME	DEPTH BL	S
DEPTH SAMPLE NO.	DESCRIPTION PID (PPM)	USCS	REMARKS	Moisture (M/W)
<u> </u>	30-2 dork organic soil 3-sondy silt (dark from	> low	recovery	
SB-01255 6-8'	- FGS + sandy sill (min 1-8 wet loger @ = 7'			, _
\[\begin{align*} \left(\text{\text{\$\sigma}} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	3-12 - GOW recovery - SU 12.50 2 GWL U 100000-1	10	el (black/b	(Dewn)
	12-16 - Selly sand /FGS			
	16-20 wet /grey FGS + gra 18020 most/weathered n	ıl		
20	24	sek/ror	k (grey)	
25	100C24' -Bu	brock		
30	PREPARED BY:	9		

	DATE: 12/8/	21	PROJECT	NAME: W	/MATA No	orthern Bus S	Station	PROJECT NO	0444	100	
	WELL SITE CO				SEC:		RGE		LONG		
					DRILLING		2CR				
								1 0-016	9		
								+ Dorald		NITORING	
					WELL IY	PE: ANENT	INTERM	EDIATE DOUBLE			
						EMPORARY				OTHER	
	W	ELL SCH	EMATIC				IN	STALLATION DATA	A		
	A	+		DECON.		M CLEAN HIGH I		/ASH			
			G	OC ABOVI ROUND II RISER BOX R STICKU	CA	JOINTS:	☐HTHRE	ADED WELDED WED OTHER NOTHER NOTHER	COUP		
				FI	WE	DIAMETER:	□ 2"	TSTAINLESS ☐ 4" ☐ 6" ☐ 0 020 ☐ OTE	OTHER		
	ANNULAR BACKFILL		DIAMETER				STEM HOLLOW DTARY MOIRECT F		MUD ROTARY HAND AUGER		
		FT.		CASING		LLING MUD:	2" [G" □ 6" □ 8" □ WATER			
		MENT ONITE		DIAMETER	CE	NTRALIZER:	YES	No			
	WELL G DEPTH SILICA FROM NATIVE	SAND	SCH.		SCH.	CC	OCK TYPE:	DOLPI	R	KEY NO	RISER BOX
	20:8 o	THER			-	PAU:	☐ 5.X5.	☐ 4'X4' ☐ OTH	ER		
	FT.		-		_	CUTTINGS:	☐ SPREA		DRUMS		
Post	SEA	AL	Ø BENT □ MASC	ONITE	DEV	ELOPMENT	_	BAILING	PUMPING	☐ AIR LIFT	
dul-		FT.	OTHE	R		METHOD: TIME:	SURG		THEROTHER	MIN	
due heaving defith	FILTI	ER		A	WAT	AMOUNT R BEFORE: 'ER AFTER:	☐ 5 GAL ☐ SILTY ☐ SILTY	10 GAL TURBID TURBID	OTHER OPAQUE	GAL CLEAR CLEAR	
18.8	IN DAG	1 1.1		WELL SCREEN LENGTH		ENT ODOR:	☐ YES				
	TYP			10 FT		WATER:	SPRE		РОТW	OTHER	
				+	_						
	*		V		_	DATE:				ELOW TOC	
	OVER DRILL SU					DATE: NOTES: (DE		NON-STANDARD METHO		ELOW TOC	
	(CROSS (IN		Well removed	from site u	pon completion of sa	mpling (temp	wells only).	

	PERMIT NO:
TE: 12/8/21 PROJECT NAME	: WMATA Northern Bus Station PROJECT NO: 0444100
ELL SITE LOCATION PLAN:	SEC: TWN: RGE: LAT: LONG:
	DRILLING CO: E2CR
	DRILL CREW: Darrell + Darrald.
	WELL TYPE: SHALLOW STINGLE CASED MONITORING
	☐ PERMANENT ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY
	TEMPORARY DEEP OTHER OTHER
WELL SCHEMATIC	INSTALLATION DATA
	DECON. ÈSTEAM CLEAN ☐ HIGH PRESSURE WASH ☐ SOAP WASH ☐ OTHER
TOC AB	O√E]
GROUN RISER	
ORETIC	
	CKUP SCREWED OTHER PIT CASING: YES NO DESCRIBE FT.
	WELL SCREEN: MPVC STAINLESS ☐ TEFLON ☐ OTHER DIAMETER: ☐ 2" ☐ 4" ☐ 6" STOTHER IN
	SLOT: 0.010 50020 OTHER IN
ANNULAR DIAME:	_
BACKFILL	METHOD: ☐ AIR ROTARY ☐ DIRECT PUSH ☐ HAND AUGER
	IN. OTHER BIT SIZE: 2" Str. 6" 8" 12" OTHER IN
FT. CASIN	DRILLING MUD: NONE WATER BENTONITE
CASIII DIAME	
OTAL BENTONITE	IN. COMPLETION: FLUSH MOUNT STICKUP RISER BOX
EPTH SILICA SAND	LOCK TYPE: DOLPHIN MASTER KEY NO
ROM NATIVE SOIL	□ OTHER PAD: □ 2'X2' □ 4'X4' □ OTHER
3	CUTTINGS: TRUMMED NUMBER OF DRUMS
FT.	SPREAD OTHER
SEAL BENTONITE	
FT. OTHER	METHOD: SURGE & BLOCK OTHER
	TIME: 10 MIN 20 MIN OTHER MIN AMOUNT 5 GAL 10 GAL OTHER GAL
CHARGE A	WATER BEFORE: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR WATER AFTER: ☐ SILTY ☐ TURBID ☐ OPAQUE ☐ CLEAR
FILTER PACK WEL	WATER AFTER: SILTY TURBID OPAQUE CLEAR L EVIDENT ODOR: YES NO TYPE
7 FT. SCRE	
TYPF 5	WATER: ☐SPREAD ☐TREATED ☐POTW ☐OTHER
Well pad	FT. WATER LEVEL: INITIAL 7 13 FT BTOC BLS
1 41, 6	DATE: FT BELOW TOC
DRILL WELL SU	
FT. TYES Æ	
(CROSS OUT IF NOT DRILLED)	IN. Well removed from site upon completion of sampling (temp wells only)
TO TO THE PARTY OF	

SOIL	BORING LOG	BORING/PIT NO: 5B-013
		SHEET OF
DATE: 12/8/21	PROJECT NAME: WMATA Northern	Bus Station PROJECT NO: 0444100
BORING PIT/SITE	SEC: TWN: RGE:	LAT: LONG:
LOCATION PLAN:	DRILLING CO: E2CR	
	DRILL CREW:	
	DRILLING/TRENCHING METHOD:	GEOPROBE
	PIT DIMENSIONS: LENGTH	WIDTH DEPTH
	GROUNDWATI	
\(\psi\	DATE ACTU	AL TIME DEPTH BLS
O.		
TH AB	FID	USCS REMARKS
DEPTH MPLE N TER TA	FID	LICOS DEMARKS
	DESCRIPTION PID	USCS REMARKS
DEPTH SAMPLE NO	(PP	TVI)
<i>o</i> ≤		
— —	30-2 organic sal + proud (get	
		br + Brown) } low recovery
_	(and self sand (get	low + Brown) recovery -
_5	2	
,,, _	14-8 = silty savel I built	@ 71
Danble	stoom Act oder + we	FO 7'28' - staining
10345	R A Pacific Action	7.8
55-013cls 8-10'	S	1 Day Par
10 8	58-12 grey FGS t sily	sand wet@ 8'9'-odor
	12-15 - aren hu	ab plant ult 4500
_ <u> </u>	1	12/
	12-16 10 UGWL	13' / (sever exochs)
15	1 - quarts - pas	gh plastic sell + FGS - 13' (siver exacts) gravel + FQB coarse sand (u
) , , , , , , , , , , , , , , , , , , ,	
	@ 16- 19 - plaste selt + a	earse send (wet)
	IX	
	20 - weathered rock /	ne -
30		ruce.
	22'- weathered rock	_
	5 42 600	
	10 1 0 O	-
	EOB/Orfuel @ 22	(Beetrook)
25		
		_
1		•
511		
780		
30		

M

					PERMIT NO:	WELL/BORING NO: SB/TMW -OL		
ATE: 12/9/21	PROJECT NAME:	WMATA North	ern Bus S	tation	PROJECT NO:	0444100		
VELL SITE LOCATION				RGE:	LAT:	LONG:		
		DRILLING C	O: E2	CR				
		DRILL CREV		11	4 00-11			
	\				Saingle Cased	MONITORING		
		PERMANI	ENT	INTERMEDIA	TE DOUBLE CA	SED RECOVERY		
				DEEP		OTHER		
WELL SO	HEMATIC			INSTA	ALLATION DATA			
<u> </u>			DECON.	STEAM C	LEAN HIGH PRE	SSURE WASH		
	JOC ABO	VE]		SOAP WA	SH OTHER_			
9 4 7 6	GROUND	IF CASIN				FLON OTHER		
	RISER B	OX	JOINTS:	☐ SCREWE	D WELDED	COUPLED		
	OK 3116		CASING:		NO DESCRIBE			
		FT. WELL!	SCREEN:	TRIVIC TO	TSTAINLESS TE	FLON OTHER		
1 1		DI	AMETER:	2"	4" 6" 20	THER IN		
	BOREHO	151	SLOT:	2 0 010 □	0.020 OTHER	IN		
ANNULAR	DIAMETE	ER C	RILLING	SOLID STI	EM HOLLOW STI	MUD ROTARY		
BACKFILL		N.	/ETHOD:		RY DIRECT PUS	H HAND AUGER		
	<u> </u>		BIT SIZE:	OTHER	6" [8"]	12" ☐ OTHER IN		
FT.	0.000	DRILLII		NONE	☐ WATER			
CEMENT	CASING		RALIZER:	OTHER YES	□ NO			
TOTAL BENTONITE™ WELL GROUT□	, r	N. COME	N ETION.			- []		
WELL GROUT DEPTH SILICA SAND	SCH.	N. LOC	K TYPE:	☐ DOLPHIN	MASTER			
FROM NATIVE SOIL				☑ OTHER	cre			
TOC OTHER	1		PAD:	2'X2'	☐ 4'X4' → OTHER	none		
		CU	TTINGS:	DRUMMED		UMS		
FT. SEAL	BENTONITE			SPREAD	OTHER			
12 FT.	☐ MASONRY SA					IMPING AIR LIFT		
FT.	OTHER	<i>N</i>	METHOD: TIME:	SURGE & I		ROTHER MIN		
			AMOUNT	☐ 5 GAL	= =	OTHER GAL		
FILTER	-	_	BEFORE:			OPAQUE CLEAR		
PACK	WELL	_	RAFTER: TODOR:	_		OPAQUE CLEAR		
7 FT.	SCREEN		ODMENT					
TYPE	LENGTH		OPMENT WATER:	DRUMMED SPREAD	NUMBER OF DR			
Wal	5	FT				2013		
frem pour		VVATER	R LEVEL:	INITIAL L		OC KBLS		
+ + /	Va		DATE:			FT BELOW TOC		
OVER	WELL SUM		DATE:			FT BELOW TOC		
	□ YES □	NO NO	OTES: (DE!	SCRIBE ALL NON	-STANDARD METHODS	& MATERIALS)		
(CROSS OUT IF	1	IN.	l removed	from site upon	completion of sampli	no (temp wells only)		
NOT DRILLED)						(rettip trend diny).		
<u> </u>								

TE: 12/9/2/ PROJECT N	AIVIE: VVIVIA	TA Northern Bus S	tation	PROJECT NO:	0444100
ELL SITE LOCATION PLAN:	SEC	D: TWN:	RGE:	LAT:	LONG:
	DRI	ILLING CO: E	2CR		
			arrell	+ Donal	
		LL TYPE:		SINGLE CASED	
		PERMANENT		ATE DOUBLE CAS	SED RECOVERY
WELL COLUMN		TEMPORARY			OTHER
WELL SCHEMATIC				ALLATION DATA	
	+	DECON.	STEAM C	LEAN □ HIGH PRE	SSURE WASH
	C ABOVE				
RI	OUND IF	CASING TYPE: JOINTS:	THREADE	STAINLESS TE	FLONOTHER COUPLED
OR	STICKUP	PIT CASING:	SCREWE	D OTHER	
	FT			STAINLESS TE	
1 1	*	DIAMETER:		PSTAINLESS ☐ TE]4" ☐ 6" ☐ •	
BC	REHOLE	SLOT:	□ 010 □	0 020 OTHER	IN
	AMETER	DRILLING	SOLID ST	EM HOLLOW STE	MUD ROTARY HAND AUGER
BACAFILL	4 IN.		OTHER		
FT.				6" 6" 6"	
	CASING AMETER	CENTRALIZER:	OTHER		
DTAL BENTONITE	1				
ELL GROUT SCH	i IN.			DUNT STICKUI	
ROM NATIVE SOIL			DTHER	☐ 4'X4' ☐ OTHER	
DI DI MERLE					
FT.	-	CUTTINGS:	RUMME!		UMS
SEAL DIMASON	NITE NRY SAND	DEVELOPMENT		BAILING PU	AADING DAIDUIST
5 FT. OTHER	I SAND	METHOD:	SURGE &		
		TIME: AMOUNT	☐ 10 MIN ☐ 5 GAL		OTHER MIN OTHER GAL
FILTER	<u> </u>	WATER BEFORE:	SILTY	TURBID	OPAQUE CLEAR
PACK	WELL	WATER AFTER: EVIDENT ODOR:	SILTY YES		OPAQUE CLEAR
	CREEN	DEVELOPMENT	☐ DRUMME	NUMBER OF DR	UMS
TYPE	IO FT	WATER:	SPREAD	TREATED [
Well grant	1 O FI	WATER LEVEL:	INITIAL VA	3 FT □ BT	OC BLS
	+	DATE:			FT BELOW TOC
OVER		DATE:			FT BELOW TOC
DRIEC WEI	L SUMP		SCRIBE ALL NO	STANDARD METHODS	
FT.		_			700
(CROSS OUT IF NOT DRILLED)	IN.	Note: Lemoved	nom site upor	n completion of sampli	ng (temp wells only).

		SC	OIL	BORING LO	G	BORING/F	PIT NO: 5B-C	14
		, /				SHEET	OF	_
		2/4/2	/	PROJECT NAME: WMA	TA Northern Bus	Station	PROJECT NO: 0444	100
		NG PIT/SI		SEC: TWN:	RGE:	LAT:	LONG:	
7 1	! '	ATION PLA	N:		CR	-		
Live !	\mathcal{X}	<u> </u>			rull +	X Jord	ld	
due -				DRILLING/TRENCHING		14/15/21 4	GEOPROBE	
give -			7		ENGTH	WIDTH 4	DEPTH	
*				DATE	OUNDWATER LE ACTUAL TI	-	DEPTH BLS	
				DATE	ACTUALTI	MIL	DEPTRIBLO	
		<u> </u>	-					-
	_	SAMPLE NO	TABLE		EID (Moisture (M/W)
	DEPTH	쁘		DESCRIPTION	FID [USCS	REMARKS	اچ
	DE	<u>₽</u>	田田	DEGOMI HON	(PPM)	0000	I INDIVINO	<u></u>
	_	l SAI	WATER		(,			ois(
/			_	y wall dudy se	suly sand.			Σ
01		1		10-1-123 650	1/2 40.1	+ corente	Oats	-
. >				2 - 1-45 +	suly some.	A CONTRACTOR		-
0-1				3-4- sulty	. occurd + gra	uel		-
	- 3 -) (ned				
0.1				(,	/	las reco		
0.2				1-8: Red sill	y sand -	ed - uco	Ty.	
0.		SB-01-	4 ec)			0	
0.8			حدا	30-11 - med w	11	1	1	
	10	8-10		38-10 = road sel	my sand + "	rushed	bricks	
112		12 10°2		310-12 = product	and to 11	14.		-
				I hear	y octos	our +	net)	-
170		1		1 12	, ,			-
				(10-16 = hih Red	ic self (quy)	- whi	not + alst	-
63/	15				1 (1	al all	1.1. (14.1.	
				@ 16 - gellow a	6 64	y par	rang octor	-
				Calo - denn a	DONEL WELL	- 50	rung oout!	
				\$ 16-19 - coarse of		nd + Ju	rocks.	
	20			16-14- Colore St	wice o			
				- 20 -21 - WE	altered rick	/gry/n	nco	
-				E013@ 2	1	0'		
-					Bedrock.			_
-				,	30000			_
-	25_							
-								-
								-
								\neg
ŀ	36							\dashv
-	- 1/			PREPARED BY	/:			\neg

	MONITORING V	WELL CONSTR	RUCTION DATA	A	WELL/BORING N	0:5B/TMW-0
			0000		PERMIT NO:	
	DATE: 12 9 21	PROJECT NAME: \	VMATA Northern Bus	Station	PROJECT NO:	0444100
	WELL SITE LOCATION	PLAN:	SEC: TWN:	RGE:	LAT:	LONG:
^			DRILLING CO: E	2CR		,
Anux	×	1	DRILL CREW:	Darrell	+ Dora	ld.
gave		1	WELL TYPE:	SHALLOW	SINGLE CASED	₹ MONITORING
1		-				
	WELL SCI	DRILLING CO: E2CR DRILL CREW: Darrell + Darrell + Darrell DOUBLE COMPLETION: DECON. STEAM CLEAN HIGH PI SOAP WASH OTHER DIAMETER DENTONITES DOLD THER DANNULAR DANNULAR DANNULAR DANNULAR DECON. STEAM CLEAN HIGH PI SOAP WASH OTHER DIAMETER DANNULAR DANNULAR DANNULAR DECON. STEAM CLEAN HIGH PI SOAP WASH OTHER DIAMETER DANNULAR DANNU		L DOTHER		
from -	ANNULAR BACKFILL FT. CEMENT BENTONITED GROUT SILICA SAND NATIVE SOIL OTHER OTHER FT. FILTER PACK FT. TYPE	TOC ABOVE GROUND RISER BO OR STICKLE FOR S	CASING TYPE: JOINTS: PIT CASING: WELL SCREEN: DIAMETER: SLOT: E DRILLING METHOD: BIT SIZE: DRILLING MUD: CENTRALIZER: LOCK TYPE. PAD: CUTTINGS: DEVELOPMENT METHOD: AMOUNT WATER BEFORE: WATER AFTER: EVIDENT ODOR: DEVELOPMENT WATER:	STEAM CI SOAP WA PVC Z THREADE SCREWEI YES Z O 010 C SOLID STEAM COTHER CITY CITY COTHER C	LEAN HIGH PRESH OTHER STAINLESS TEND OF THE	EFLON OTHER COUPLED EFLON OTHER THER IN IN EM MUD ROTARY H HAND AUGER 12" OTHER IN BENTONITE P RISER BOX KEY NO RUMS JMPING AIR LIFT ER OTHER MIN OTHER GAL OPAQUE CLEAR OPAQUE CLEAR
	Bravel Park.		WATER LEVEL:	INITIAL 1	2 ¹ /2_FT □ BT	oc Dars
	+ +	*	DATE			FT BELOW TOC
1.0	OVER ORILL FT.	WELL SUMF	DATE: O NOTES: (DE	SCRIBE ALL NON	-STANDARD METHODS	FT BELOW TOC
	(CROSS OUT IF NOT DRILLED)	IN	1. Well removed	from site upon	completion of sample	ing (temp wells only).
			PREPARED BY:	Wy		

				PERMIT NO:	**
DATE: 12/a/2/	PROJECT NAME: V	WMATA Northern Bus	Station	PROJECT NO:	0444100
VELL SITE LOCATION	PLAN:	SEC: TWN:	RGE:	LAT:	LONG:
		DRILLING CO:	E2CR		
		DRILL CREW:	Darrell	+ Donale	. <i>i</i>
		WELL TYPE:		SINGLE CASED	MONITORING
		PERMANENT	INTERMED	ATE DOUBLE CAS	
		TEMPORARY		OTHER	OTHER
WELL SCI	HEMATIC		INST	ALLATION DATA	
	1	DECON		CLEAN HIGH PRE	SSURE WASH
	TOC ABOV	Æ	☐ SOAP W	ASH OTHER_	
	GROUND RISER BO			STAINLESS TE	
	OR STICK		S: □MTHREAD □ SCREWE		COUPLED
	F	PIT CASING	E YES	DESCRIBE	
		WELL SCREEN	I: PVC	STAINLESS TE	FLON OTHER
			2" ☐ 2" ☐ : 🔀 0.010 ☐	4"	
ANNULAR	BOREHOL	E			
BACKFILL	DIAMETER			TEM HOLLOW STE ARY RECT PUSI	EM ☐ MUD ROTARY H ☐ HAND AUGER
CEMENT TOTAL BENTONITE S	1 9 in	l.	OTHER		
		DRILLING MUD	NONE	" 6" 6" 0" 0" 0" 0" 0" 0" 0" 0" 0" 0" 0" 0" 0"	12" OTHER IN BENTONITE
	CASING DIAMETER		OTHER	SkNO	
	DIAMETER.		1000		
NELL GROUT□ EPTH SILICA SAND□	SCH.	COMPLETION LOCK TYPE	PLUSH M	OUNT STICKU	
ROM NATIVE SOIL	1 1 1 1 1 1 1 1		OTHER		
TOC OTHER		PAD	2'X2'	☐ 4'X4'	none
FT.		CUTTINGS	DRUMME		UMS
SEAL	BENTONITE		SPREAD	OTHER	
G MM -	MASONRY SAN			BAILING PU	
2 NLFT.	OTHER	METHOD TIME			ROTHER MIN
1			5 GAL	☐ 10 GAL ☐	OTHER GAL
FILTER		WATER BEFORE WATER AFTER		= =	OPAQUE □ CLEAR OPAQUE □ CLEAR
PACK	WELL SCREEN	EVIDENT ODOR	YES [NO TYPE	
13- FT.	LENGTH	DEVELOPMENT	DRUMME	D NUMBER OF DR	UMS
TYPE UV. O	10 F	WATER:	SPREAD	TREATED [POTW OTHER
WGP.		WATER LEVEL	INITIAL /	<u>)/2</u> FT □ BT(oc 🔀 sis
+ +	V	DATE:			FT BELOW TOC
QVER		DATE:			FT BELOW TOC
DAILL	WELL SUMP			M PTANDARD MET 100	
FK				N-STANDARD METHODS	,
(CROSS OUT IF NOT DRILLED)	· L IN	. Well remove	ed from site upo	n completion of sampli	ng (temp wells only).

		SC	DIL	BORING L	OG		BORING/	PIT NO: 5B-01	7
							SHEET	OF	
		4/16/21		PROJECT NAME: W			Station	PROJECT NO: 044	4100
		NG PIT/SI		SEC: TWN:	RGE		LAT:	LONG:	
	LOCA	TION PLA	N:	DRILLING CO:	E2CR				
Automas				DRILL CREW:					
Arkansas Ave				DRILLING/TRENCHIN				GEOPROBE	
•	<u> </u>			PIT DIMENSIONS:	LENGTH		WIDTH	DEPTH	
					GROUNDY				
				DATE	A	CTUAL TI	<u>VIE</u>	DEPTH BLS	
	ļ.			12/16/21				110	
		1	Ш			1			
	_) Š	WATER TABLE			1 _1			§]
	DEPTH	SAMPLE NO	12			FID 🔲			اق
	<u> </u>	<u> </u>		DESCRIPTIO	N	PID 🙀	USCS	REMARKS	ഉ
		₹	ΑŢ			(PPM)		i	str
		S	3						Moisture (M/W)
	<u> </u>			2					
	_ _			9-4 no re	covery	-			
	<u> </u>			J	1				
)	0				
0.2	5	- 4							
Oir S		930 763		(// 3	11	/			
OAL		90 6 8) yellan su	ly son	d .			
021		Co		slight st	hun (a	140			
0.1				100000					_
	10			yellan su shight sa GW N 10' (agaise	gran	Sand		-
0.2						-			-
				wet + gu	earte, o	may 1	+ 000	1 -ine 100	4, -
The same of				Y Y	1'1		" Deer	el, river ra	~ ⊣
	5								-
	15			16-17 - silly	rant 1	weather	red out	£	
				16-17 - 5009			, , ,		-
	- $-$			EO	B @ 1	7'			-
									-
ı	20								-
1									-
ı									-
,1		-							-
						1			-
1									-
,								0000505000	
1									
				-					
				PREPARED	BY:				

WELL/BORING NO: TMW/SB- 0175 PERMIT NO:

					
DATE: 12/16/21		WMATA Northern Bus	Station	PROJECT NO:	0444100
WELL SITE LOCATION	N PLAN:	SEC: TWN:	RGE:	LAT:	LONG:
1 1		DRILLING CO:	2CR		7
1 5B/m	iw -017.	DRILL CREW:	Darrell -	+ Josale	
12.1:		WELL TYPE:	SHALLOW	SINGLE CASED	MONITORING
Parking pace	→ ×	PERMANENT	☐ INTERMEDIA	ATE DOUBLE CA	ASED RECOVERY
7.5		☐ TEMPORARY		ОТНЕ	R OTHER
WELL SC	HEMATIC		INST	ALLATION DATA	
1	TOC ABOV	1	SOAP WA	LEAN HIGH PR	ESSURE WASH
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	GROUND RISER BO OR STICK	CASING TYPE JOINTS	THREADE	STAINLESS 1	TEFLON OTHER
			SCREWE	O OTHER NO DESCRIBE	
	BOREHOL			STAINLESS	OTHER IN
ANNULAR BACKFILL	DIAMETE 4 IN	R DRILLING METHOD	SOLID STI	EM HOLLOWS	TEM MUD ROTAR'SH HAND AUGER
FT.	CASING		☐ 2" ∑ (3"	6" B" C	12" OTHER IN BENTONITE
TOTAL BENTONITE	DIAMETE		YES	≥ NO	
WELL GROUT□ DEPTH SILICA SAND□ FROM NATIVE SOIL□	sch. 40		☐ DOLPHIN☐ OTHER	MASTER	KEY NO
TOC OTHER		PAD:	2'X2'	4'X4' SOTHER	mone.
FT. SEAL	BENTONITE	CUTTINGS:	☐ SPREAD	NUMBER OF D	RUMS
3 FT.	MASONRY SAN	METHOD:	□ NONE [□ SURGE & I □ 10 MIN	BLOCK OTH	
			☐ 10 MIN		OTHER MIN
FILTER	H	WATER BEFORE:			OPAQUE CLEAR
PACK	WELL	WATER AFTER: EVIDENT ODOR:	SILTY SES		OPAQUE CLEAR
12 FT.	SCREEN	DEVELOPMENT			
TYPE	LENGTH	DEVELOPMENT WATER:		NUMBER OF D	
WGP	10 E	T. WATER LEVEL:		O FT □B	
	1	DATE:			
OVER	*	DATE:			FT BELOW TOC
DRICE	WELL SUMP				
FT.	□ YES □ N			-STANDARD METHOD:	
(CROSS OUT IF NOT DRILLED)	IN IN	Well remove	d from site upon	completion of samp	ling (temp wells only).
· ·					
					111012

MONITORING WELL CONSTRUCTION DATA

PREPARED BY:

		SC	DIL	BORING L	OG		BOBING/	DIT NO: dia	012
		98					SHEET	PIT NO: SB-C	218
	DATE: (2/16/2		PROJECT NAME: W	MATA Nort	hern Bus		PROJECT NO:	0444100
		NG PIT/SI		SEC: TWN:	RGE		LAT:	LONG:	0111100
	LOCA	TION PLA	N:	DRILLING CO:	E2CR,		00		
	ı			DRILL CREW: Na			neld	•	
			2 .	DRILLING/TRENCHIN			1445714	GEOPROBE	
	51	3-01	U	PIT DIMENSIONS:	LENGTH GROUNDV		WIDTH 4	DEPTH	16/2
	l			DATE		STUAL TI		DEPTH E	RIS
	l			12/16/21	-	131		02.111	
				15					
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO	DN	FID PID (PPM)	USCS	REMARK	Moisture (M/W)
0.1	5	53-018	55	30-4 - law si	<i>V</i>		ift bro	ws	
0.2	10	8'-10		9WL 13' sil	ly same	l(grey)		
03/				weathered m	ock + g	wanty	(dry)	716.5	-
	_,}				B 16	0	7		
ŀ	20				Juse				
					V				_
	= $=$								
					1				

		i							-
							/		
L				PREPARED	DV: /I				
				PREPAREL	701: /	1	7-4	<u> </u>	

TOTAL OTTAL	L CONSTRU	JCTION DATA	4	WELL/BORING N	0: SB/TMW-C
				PERMIT NO:	
ATE: 12/16/21 PR	OJECT NAME: WI	MATA Northern Bus	Station	PROJECT NO:	0444100
ELL SITE LOCATION PLAN	√ : s	SEC: TWN:	RGE:	LAT:	LONG:
co/-mu - c	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	RILLING CO: E	2CR		
SB/TMW-C	718 : [DRILL CREW: 1	mrell +	- Dorald	
		VELL TYPE:		SINGLE CASED	MONITORING
		PERMANENT	☐ INTERMEDIA		SED RECOVERY
		TEMPORARY			OTHER
WELL SCHEMA	TIC		INST	ALLATION DATA	
	TOC ABOVE			LEAN HIGH PRE	SSURE WASH
	GROUND IF RISER BOX	CASING TYPE: JOINTS:	PVC THREADE	STAINLESS TE	FLON OTHER
	OR STICKUP	PIT CASING:	SCREWE	O OTHER NO DESCRIBE	
	FT.	WELL SCREEN:	2"		FLON OTHER
ANNULAR	BOREHOLE DIAMETER			_	IN
BACKFILL	4 IN.	DRILLING METHOD	AIR ROTA	RY DIRECT PUSI	MUD ROTAR HAND AUGE
FT.	CASING	BIT SIZE: DRILLING MUD:	NONE	☐ 6" ☐ 8" ☐ ☐ WATER [12" OTHER IN BENTONITE
CEMENTO	DIAMETER	CENTRALIZER:	OTHER YES	⊠ NO	
OTAL BENTONITE VELL GROUT EPTH SILICA SAND ■	SCH.	COMPLETION:		DUNT STICKUI	RISER BOX
ROM NATIVE SOIL	40 .		OTHER	☐ 4'X4' DOTHER	
o•5		CUTTINGS:	DRUMME	NUMBER OF DR	UMS
FT. SEAL	PERITONITE		SPREAD		
2 FT.	■ MASONRY SAND OTHER	DEVELOPMENT METHOD:	□NONE [□SURGE & I	BAILING PU	
1		TIME:	10 MIN	□ 20 MIN □	OTHER MIN
		AMOUNT WATER BEFORE:		= =	OTHER GAL
FILTER		WATER AFTER:	SILTY	TURBID	OPAQUE CLEAR
PACK	WELL SCREEN	EVIDENT ODOR:	YES	NO TYPE	
12 FT. TYPE	LENGTH	DEVELOPMENT WATER:	☐ DRUMMED	NUMBER OF DR	
WGP	10 FT.	WATER LEVEL:	INITIAL	FT 🔲 BT	OC BLS
+ +	*	DATE:			FT BELOW TOC
OVER	/	DATE:			FT BELOW TOC
DRILL	WELL SUMP		SCRIBE ALL NON	-STANDARD METHODS	
(CROSS OUT IF NOT DRILLED)	IN.	Well removed	I from site upon	completion of sampli	ng (temp wells only).
+					

		SC	DIL	BORING L	OG			PIT NO:58-016	
1	0.53%						SHEET	OF	
		2/16/2		PROJECT NAME: W				PROJECT NO: 0444	100
		NG PIT/SI		SEC: TWN:	RGE:		LAT:	LONG:	
	LOCA	TION PLA	N:	DRILLING CO:	E2CR	-	-0-1		
3				DRILL CREW: DRILL	crrell		rale		
		011		DRILLING/TRENCHIN				GEOPROBE	
	20	-016	2	PIT DIMENSIONS:	LENGTH		WIDTH	DEPTH	
	:				GROUNDW			DEDTUBLO	
				DATE 12/16/21	. At	CTUAL TII	VIE.	DEPTH BLS	
				12/10/21		-		A. 141	
	DEPTH	SAMPLE NO.	WATER TABLE	DESCRIPTIO		FID PID PID (PPM)	USCS	REMARKS	Moisture (M/W)
000 0.0 0.0 0.1 0.3 0.3 0.3 0.3	10	58-016 (8-10		2-8 sed 2-8 sed 3-14 = 9 GWL = 14' wet selly EOB@18/2	rey so	lty c wrat	lay C	moist).	
				PREPAREI) BV: I	4		1	100
				PREPAREL	זם כ:	- (V /	gadix	N	

ONITORING WELL CONST	RUCTION DATA	WELL/BORING NO: 58/TMW-
IOMI OMITO WELL COMO.		PERMIT NO:
ATE: 12/16/21 PROJECT NAME:	WMATA Northern Bus Station	PROJECT NO: 0444100
VELL SITE LOCATION PLAN:	SEC: TWN: RG	E: LAT: LONG:
ELL SITE BOOK TO THE STATE OF T	DRILLING CO: E2CR	
SB/TMW-016	DRILL CREW: Darres	ll + Donald
33/11/100	WELL TYPE: SHALLOV	
	☐ PERMANENT ☐ INTER	
WELL SCHEMATIC		NSTALLATION DATA
WELL SOFILINATIO		EAM CLEAN HIGH PRESSURE WASH AP WASH OTHER
TOC AB GROUN RISER OR STIC	D IF CASING TYPE: PV BOX JOINTS: ATH	C
		C STAINLESS TEFLON OTHER 4" 6" SOTHER IN 10 0 020 OTHER IN
ANNULAR BACKFILL BOREH	TER DRILLING SO	DLID STEM HOLLOW STEM MUD ROTARY MID ROTARY HAND AUGER HAND AUGER
FT. CASI	DRILLING MUD: NO	
CEMENT DIAME		s 🗟 NO
TOTAL BENTONITE WELL GROUT SCH. DEPTH SILICA SAND FROM NATIVE SOIL OTHER	LOCK TYPE:	USH MOUNT STICKUP RISER BOX DLPHIN MASTER KEY NO THER 14'X4' SOTHER MONE
1842		RUMMED NUMBER OF DRUMS
13 FT. LEN	DEVELOPMENT N METHOD: S TIME: 16 AMOUNT 5 WATER BEFORE: S WATER AFTER: S ELL EEN GTH DEVELOPMENT D WATER: S	ONE BAILING PUMPING AIR LIFT URGE & BLOCK OTHER D MIN 20 MIN OTHER MIN GAL OTHER GAL ILTY TURBID OPAQUE CLEAR ILTY TURBID OPAQUE CLEAR ES NO TYPE DRUMMED NUMBER OF DRUMS PREAD TREATED POTW OTHER
WGP	WATER LEVEL: INIT	
V-	DATE:	14 12/16/21 FT BELOW TOC
OVER DRILL WELL	DATE:	FT BELOW TOC
DRILL WELL	□ NO NOTES: (DESCRIB	E ALL NON-STANDARD METHODS & MATERIALS) site upon completion of sampling (temp wells only).
NOT DRILLED)		1 0.

		SC	DIL	BORING L	OG		BORING/F	PITNO: SB-	015
							SHEET	OF	
		2/17/2		PROJECT NAME: W		_		PROJECT NO:	0444100
		VG PIT/SI		SEC: TWN:	RGE		LAT:	LONG:	
	LOCA	TION PLA	ıN:	DRILLING CO: DRILL CREW: (Q)	E2CR	(1)0-	111		
	· ·			DRILLING/TRENCHIN	<u>なんしく ダ</u>	- 4,1972	ua	GEOPROBE	
	53	-015	5	PIT DIMENSIONS:	LENGTH		WIDTH	DEPTH	
		٥١ر	ر		GROUNDW			DEITH	
				DATE		CTUAL TII		DEPTH	BLS
				. 97					
	ОЕРТН	SAMPLE NO.	WATER TABLE	DESCRIPTIO	DN	FID PID PID PPM)	USCS	REMARK	Moisture (M/W)
0.2				"I top soil				<u> </u>	
				} - sandy sel	/				
102/) - sandy sili	-				
				-4					
4.8	5			H			· · · · · · · · · · · · · · · · · · ·		
10 7		50-0155	5	} no plastic	sill (moust	- light	brown	\dashv
16.1		6-3)		N '		1		75.0	\dashv
N.	- $-$			k 8'					\dashv
441	10								
M				no recei	reing.				
My				V					
007/	<u>. </u>			- GWL=13')	Α .	_ [,	\dashv
				1	wet ri	ver so	ks silly	y sand +	
0.4	15							NE Daves	•
1	= $=$			16-)					
				16 }	sand	4 selt	weather	ud rock +	
				\ \ \ \	6	1	me	ud rock t	-
	20				<u>.2 p'</u>				
		l		150	PB @ 2	0 24	fusal))	-
İ									
į	25								
Į.									
ŀ									_
ŀ	_								
H						1	7		-
				PREPAREI) BY: /1	01/	(1/2	
								\	`

DATE:/2//	7/2/	PROJECT	NAME: W	/MAT	TA Northern Bus S	tation	PERMIT NO: PROJECT NO:	0444100
	LOCATION F	PLAN:		SEC	: TWN:	RGE:	LAT:	LONG;
_	/			DRII	LLING CO: E2	CR		
5B-	/ TMU	1-01	5	<u> </u>		arrell	+ Donal	
/				<u> </u>	L TYPE:	SHALLOW	☐ SINGLE CASED	MONITORING
								ASED RECOVERY
				Ι.	TEMPORARY	☐ DEEP	□ отне	R DOTHER
	WELL SCH	EMATIC				INS	TALLATION DATA	
					DECON.	⊠ STEAM	CLEAN HIGH PE	RESSURE WASH
1			OC ABOY	4		SOAP W	ASH OTHER	
			GROUND IF	F	CASING TYPE:	₹PVC [TSTAINLESS □	TEFLON OTHER
			RISER/BOX		JOINTS:	THREAD		COUPLED
1			A SHICKU		PIT CASING:	SCREW	ED □OTHER ☑NO □DESCRIBE	
		ЩЬ	FT		WELL SCREEN:		STAINLESS □	TEFLON OTHER
1	1 100		*	-	DIAMETER:	☐ 2" [□ 4" □ 6" 🔀	
2			BOREHOLE	=	SLOT:	□ 3 (0.010 [☐ 0 020 ☐ OTHE	ER IN
	NULAR		DIAMETER		DRILLING	SOLIDS	TEM HOLLOWS	TEM MUD ROTARY
BA	CKFILL	4	4 IN.		METHOD:	☐ AIR ROT	ARY TORECT PL	JSH HAND AUGER
			7 "		BIT SIZE:	□ 2" 🔀	4" 6" 8" [12" OTHER IN
14	FT.		CASING	-	DRILLING MUD:	NONE	□ WATER	BENTONITE
	CEMENT		DIAMETER		CENTRALIZER:		NO	
OTAL BE	NTONITE		IN.		COMPLETION:	⊠€i iieu i	MOUNT STICK	KUP RISER BOX
	GROUT CA SAND	S	CH.		LOCK TYPE:			
	TIVE SOIL		40		DAD:	OTHER	☐ 4'X4'	n sone
TOC	OTHER				PAU;	2'X2'	□ 4.X4. SOLHE	R
	1				CUTTINGS:	_⊠∕ÓRUMM □ SPREAD	ED NUMBER OF I	DRUMS
FT.	SEAL	M BEN	TONITE			SPREAL	J [_]OTHER	
	2 FT.		ONRY SAND	D				PUMPING AIR LIFT
	<u> </u>	□отн	EK		METHOD: TIME:	SURGE 10 MIN		HER □OTHER MIN
	6.					5 GAL	☐ 10 GAL.	OTHER GAL
TVFI	ILTER	100	- 4	- '	WATER BEFORE: WATER AFTER:	=	_	□OPAQUE □CLEAR □OPAQUE □CLEAR
	PACK	1 98 1	WELL		EVIDENT ODOR:	= -		
1	2 _{FT.}		SCREEN LENGTH	11	DEVELOPMENT	☐ DRUMM	ED NUMBER OF I	DRUMS
Т	YPE				WATER:	SPREAD		
W	GP		[() FT		WATER LEVEL:	INITIAL	FT 🗆	BTOC BLS
1 _			+	_				_
	1	V	,	_	DATE:			FT BELOW TOC
	OVER ORILL/		ELLSUMP		DATE:			FT BELOW TOC
	FT.		YES - NO	D	NOTES: (DE	SCRIBE ALL N	ON-STANDARD METHOL	OS & MATERIALS)
	S OUT IF		IN	1.	Well removed	from site up	on completion of sam	pling (temp wells only).
NOT	DRILLED)							
	<u>+</u>					$\angle/$	6/-	

General Field Testing and Measurement

Field Instrument Calibration Records

PSI PROJE	CT NAME:	WMATA Nor	thern Bus St	ation	_			0444100
	ENT (MAKE [ER(S) (che			3000	_INSTRUM	MENT#	PGM-7	320
☐ TEMPE	RATURE DITY	CONDI	JCTIVITY UAL CI	SALINITY DO	,	☐ pH ☐ OTHER	PID	ORP
				s used for calil		-		he standard
Standard A	1 1	standards w	ere prepared 100 pps	d or purchased		1 4000	260907	-1 0.0
Standard B		1	, o o pp.,				0876-1	
Standard (
DATE (yy/mm/dd)- .	TIME (hr:min)	STD / (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/14/21	7:58	A	100	115	15%	yes	Loit	RR
10/14/21	15:27	A	100	116	16%	yes	Cont	RR
10/15/21	9:09.	A	100	129	29%	Yes	Cont	RR
Wight	1447	A	100	114	14%	ges	Cort	RR
10/18/21	0740	A	100	113	137.	yes	Cort	AR
10/18/21	1605	, A	100	107	71.	Ges	Cont	4RR
10/19/21	0820	A	100	103	3%	Yes	los	RR
12/8/21	1030	A	100	104	4%	lyes	Cost.	RA
12/6/21	1600	A	100	101	1%	lifes	York	DL.
12 7/21	0900	A	100	107	7%	Ujes	Cont	RR
12/7/21	1600	A	100	112	12%	Mes	Cont	RA
12/8/21	0830	A	100	110	10 %	yes	Cort	RR
12/8/21	1530	A	100	107	7%	gles	lont	RR
12/4/21	0945	Д	100	121	21%	Yes	last	RK
12/9/21	1300	Α .	100	111	11%	yes	Cont	er.
12/16/21	0830	A	100	114	17%	Yes	Cont	RR
12/16/21	1350	A	100	109	9%	ejes	lost	RR
12/17/21	0830	A	100	103	3%	yes	Port	RR.
12/17/21	1100.	A	100	108	8%	Mes	Cont	RP.
1		·				1		
						1	71.11870	

31.

MONITORING WELL CONS	TRUCTION DATA	4	WELL/BORING N	0: SB-00/
			PERMIT NO:	
DATE: 10/12/2 / PROJECT NAM	E: WMATA Northern Bus	Station	PROJECT NO:	0444100
WELL SITE LOCATION PLAN:	SEC: TWN:	RGE:	LAT:	LONG:
X	DRILLING CO: E	2CR		
	DRILL CREW: Da	ryl, Ron	dd .	
	WELL TYPE:	SHALLOW	SINGLE CASED	
	PERMANENT			
WELL SCHEMATIC	TEMPORARY		OTHER	OTHER
WELL CONTENTS	.53			
• 077	DECON	SOAP WAS	EAN HIGH PRE	SSURE WASH
TOCA	BOYE			TOTUED
RISE	BOX JOINTS	THREADE	D WELDED	EFLON OTHER COUPLED
OR 9/1	ICKUP PIT CASING	SCREWED	OTHER NO DESCRIBE	
	FT			
+ + -	DIAMETER	X 2"	4" 6" 0	EFLON OTHER THER IN
ROBE	SLOT	010 🔀	0.020 OTHER	IN
ANNULAR DIAM	ETER DRILLING	SOLID STE	M HOLLOW ST	EM MUD ROTAR
BACKFILL 8	IN 1	OTHER		H HAND AUGE
FT.	BIT SIZE		☐ 6" 🗶 8" ☐ ☐ WATER	12" OTHER IN
CAS	DRILLING MUD	OTHER		BENTONIE
CEMENT DIAM	ETER CENTRALIZER	YES	NO	
WELL GROUT			OUNT STICKU	P RISER BOX
DEPTH SILICA SAND SCH.		DOLPHIN OTHER		
TOC OTHER	PAD	2'X2'	4'X4' XOTHER	8 in
PAR L	CUTTINGS		NUMBER OF DE	RUMS
FT. SEAL SENTONIA	TE.	SPREAD		
3 FT. DOTHER	SAND DEVELOPMENT	□ NONE [☐ BAILING API BLOCK ☐ OTH	JMPING □ AIR LIFT
J FI.	TIME	10 MIN	☐ 20 MIN ☐	OTHER MIN
	AMOUN1 WATER BEFORE			OTHER GAL
FILTER	WATER AFTER		TURBID NO TYPE	OPAQUE CLEAR
SOF	ELL EVIDENT ODOR	- 12		
11.3 FT. LEN	GTH DEVELOPMENT WATER		NUMBER OF OF ☐ TREATED	
Nell grand 10		_	45.	TOC BLS
Packs.	DATE			FT BELOW TOC
OVER	DATE			FT BELOW TOC
BRILL WELL XYES	SUMP		N-STANDARD METHODS	S & MATERIALS)
(CROSS OUT IF		ed from site upor	n completion of samp	ling (temp wells only)
NOT DRILLED)				
	PREPARED BY:	The same	de la	<u> </u>

DATE: 10 13/2 PROJECT NAME: WMATA Northern Bus Station	MONITORING \	NELL CONST	RUCTION	I DATA		WELL/BORING NO	0:53-004/
SEC: TVN: RGE: LAT: LONG: DRILLING CO: EZCR DRILL CREW:							1
SEC: TVN: RGE: LAT: LONG: DRILLING CO. E2CR DRILL CREW:	DATE: 10/13/21	PROJECT NAME:	WMATA North	nern Bus S	tation	PROJECT NO:	0444100
DRILL CREW: SHALLOW PISNOLE CASED MONITORING	WELL SITE LOCATION	PLAN:	SEC:	TWN:	RGE:	LAT:	LONG:
DRILL CREW: Well Type: SHALLOW SINGLE CASED MONITORING MON		MM-004	DRILLING O				
WELL SCHEMATIC WELL SCHEMATIC WELL SCHEMATIC WELL SCHEMATIC DECON. STEAM CLEAN HIGH PRESSURE WASH OTHER OTHE	The second second		DRILL CRE	w: Da	ryl +	Donald.	
WELL SCHEMATIC TEMPORARY OGEP OTHER OTHER TEMPORARY OGEP OTHER OTHER TEMPORARY OGEP OTHER OTHER TOTHER OTHER OTHER TOTAL OTHER		7	WELL TYPE		SHALLOW	SINGLE CASED	
WELL SCHEMATIC DECON. STEAM CLEAN HIGH PRESSURE WASH OTHER OTHER OTHER SCAP WASH OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER OTHER			PERMAN	ENT L			
DECON. STEAM CLEAN HIGH PRESSURE WASH OTHER TOC ABOVE GOUND IF RISER BOX OR STINKUP PIT CASING YES NO DESCRIBE WELL SCREEN: YES NO DESCRIBE WELL SCREEN: YES NO DESCRIBE WELL SCREEN: YES NO DESCRIBE WELL SCREEN: YES NO DESCRIBE WELL SCREEN: YES NO DESCRIBE WELL SCREEN: YES NO DESCRIBE WELL SCREEN: YES NO DIRECT PUSH MAND AUG OTHER IN BOREHOLE DIAMETER DIRECT PUSH MAND AUG OTHER IN BOREHOLE DIAMETER DIRECT PUSH MAND AUG OTHER METHOD: OTHER DIRECT PUSH MAND AUG OTHER MAND AUG OTHER MAND AUG OTHER DIRECT PUSH MAND AUG OTHER MAN	WELL SC	HEMATIC	I IEM	PURART			LI OTHER
CASING TYPE: SPVC STAINLESS TEFLON OTHER SISTER BOX OTHER SCREWED OTHER OTHER SCREWED OTHER OTHER SCREWED OTHER				DECON.			SSURE WASH
WELL SCREEN: DIAMETER: DIAMETER IN DIAMETER: DIAMETER IN SLOT: DIAMETER: DIAMETER IN SLOT: DIAMETER: DIAMETER IN SLOT: D		GROUN RISER I	DIF CASI BOX KUP	JOINTS:	THREADE	STAINLESS TE	EFLON OTHER COUPLED
ANNULAR BACKFILL ANNULAR BACKFILL BIN. BIN. BIR ROTARY DIRECT PUSH HAND AUG METHOD: AIR ROTARY DIRECT PUSH HAND AUG METHOD: AIR ROTARY DIRECT PUSH HAND AUG METHOD: OTHER BENTONITE DIRECT PUSH HAND AUG METHOD: OTHER BENTONITE DIRECT PUSH HAND AUG METHOD: OTHER METHOD: O	1		WELL	SCREEN:	Øfvc ☐	STAINLESS TE	THER IN
TOTAL WELL GROUTS DIAMETER CENTRALIZER: YES NO CASING DIAMETER CENTRALIZER: YES NO COMPLETION: SFLUSH MOUNT STICKUP RISER BOX DOTHER OTHER OTH		DIAMET	ER IN.		OTHER		
TOTAL WELL GROUTS GROUTS SLICA SAND DEPTH SILICA SAND NATIVE SOILED TOC OTHER PAD: DOLPHIN MASTER KEY NO. FT. SEAL SEENTONITE MASONRY SAND OTHER SEEN SOILED TOC OTHER MASONRY SAND OTHER SEEN MASONRY SAND OTHER SEEN SEEN OTHER MASONRY SAND OTHER SEEN OTHER MASONRY SAND OTHER METHOD: SURGE & BLOCK OTHER MIN AMOUNT SEAL OTHER GA WATER BEFORE: SILTY TURBID OPAQUE CLEAR WATER AFTER: SILTY TURBID OPAQUE CLEAR EVIDENT ODOR: SPREAD TREATED POTW OTHER WATER: SPREAD TREATED POTW OTHER WATER LEVEL: INITIAL 19 FT BTOC TBLS DATE: FT BELOW TOC			G DRILL	ING MUD:	NONE OTHER	☐ WATER	BENTONITE
DEPTH SILICA SAND NATIVE SOIL & OTHER DOLPHIN MASTER KEY NO. OTHER DOTHER DOTHER DOTHER DOTHER DOTHER DOTHER DOTHER DOTHER DEVELOPMENT NONE BAILING DEVELOPMENT SURGE & BLOCK OTHER DOTHER D	TOTAL BENTONITE						
SEAL SEAL MASONRY SAND DEVELOPMENT NONE BAILING PUMPING AIR LIFT	DEPTH SILICA SAND	SCH.	LO	CK TYPE:	☐ DOLPHIN	MASTER	KEY NO.
SEAL MASONRY SAND DEVELOPMENT NONE BAILING PUMPING AIR LIFT	CT MANUAL TO SERVICE AND ADMINISTRATION OF THE PARTY OF T		С	UTTINGS:_			RUMS
SCREEN LENGTH SCREEN LENGTH DEVELOPMENT DRUMMED NUMBER OF DRUMS WATER: SPREAD TREATED POTW OTHE WATER LEVEL: INITIAL 19 FT BELOW TOC DATE: FT BELOW TOC	SEAL 3 FT.	☐ MASONRY S	WATER	METHOD: TIME: AMOUNT BEFORE:	NONE SURGE & 10 MIN S GAL SILTY	BAILING PL BLOCK OTHE 20 MIN 10 GAL TURBID	FR OTHER MIN OTHER GAL OPAQUE □ CLEAR
WATER LEVEL: INITIAL 19 FT BELOW TOC DATE:FT BELOW TOC		SCREE	H DEVEL	OPMENT	☐ DRUMMEI	D NUMBER OF DR	
DATE:FT BELOW TOC	pale	5.			INITIAL ื	<u>19</u> гт	
	*	V					
	DRILL						
NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS) (CROSS OUT IF NOT DRILLED) Well removed from site upon completion of sampling (temp wells only).	(CROSS OUT IF						·
					0	7 4	

28 growth 31 growth

MONITORIN	G WE	LL CONSTR	RUC	TION DATA		WELL/BORING N	D: MW-002/SB-
						PERMIT NO:	
DATE: 10 /13/2	l PE	ROJECT NAME: V	VMA	ΓΑ Northern Bus S	tation	PROJECT NO:	0444100
WELL SITE LOCAT	ION PLA	N:	SEC	: TWN:	RGE:	LAT:	LONG:
53	-003	IN: 2/MW-002	DRII	LLING CO: E2	CR	A 4	
		/	DRII	LL CREW: Dary	e + Don	eld.	
	X	7	WEI	L TYPE:	SHALLOW	SINGLE CASED	
		l,				ATE DOUBLE CAS	
, , , , , , , , , , , , , , , , , , , ,				☐ TEMPORARY		OTHER	☐ OTHER
WELL	SCHEM	ATIC			INST	ALLATION DATA	
	<u></u>		_	DECON.		LEAN HIGH PRE	SSURE WASH
Ĩ		TOC ABOV	Æ]		SOAP W	ASH OTHER_	
		GROUND	IF	CASING TYPE:	PVC D	STAINLESS TE	FLON OTHER
1		RISER BO		JOINTS:	SCREWE	ED WELDED	L_COUPLED
			_	PIT CASING:		NO DESCRIBE	
			4	WELL SCREEN:	Ď PVC □	STAINLESS TE	FLON OTHER
1		(Ba)		DIAMETER:]4"	THER IN
		BOREHOL	E.		-	•	
ANNULAR BACKFILL		DIAMETE	R	DRILLING	SOLID ST	TEM THOLLOW STI	EM MUD ROTARY H HAND AUGER
BACKFILL		7 m	J.		OTHER		
FT.				BIT SIZE:	2" 4	"	12" OTHER IN
	-	CASING			OTHER		BENTONITE
CEMEN		DIAMETE	R	CENTRALIZER:	YES	™ NO	
TOTAL BENTONITE WELL GROU		211	J.	COMPLETION:	S FLUSH M	OUNT STICKU	P RISER BOX
DEPTH SILICA SAND		SCH.		LOCK TYPE:		MASTER	KEY NO
FROM NATIVE SOIL				PAD:	OTHER 2'X2'	☐ 4'X4' ☐ OTHER	
a7 <i>i5</i>			-1	CUTTINGS	No.	D NUMBER OF DE	11110
FT.				COTTINGS:		OTHER_	tums
SEAL		BENTONITE		DEVELOPMENT	Chone		JMPING AIR LIFT
3 FT.		OTHER	ן טו		SURGE 8		
1			_	TIME:	10 MIN		OTHER MIN
			1	AMOUNT WATER BEFORE:	_	_ = =	OTHER GAL OPAQUE CLEAR
FILTER		*	-1	WATER AFTER:	= -	_ — —	OPAQUE CLEAR
PACK		WELL SCREEN	- 1	EVIDENT ODOR:	YES _	NO TYPE	
12 'FT.		LENGTH		DEVELOPMENT	DRUMME		
Willian	auf	10 #	T.	WATER:	SPREAD		POTW OTHER
part			_	WATER LEVEL:	INITIAL ~2	Ø FT □BT	OC MBLS
+				DATE:			FT BELOW TOC
OVER				DATE:			FT BELOW TOC
DRILL		WELL SUM			SCRIBE ALL NO	N-STANDARD METHODS	_
FT.	_	/ A		`			
(CROSS OUT IF NOT DRILLED)		A 1	N.	Well removed	I trom site upo	n completion of sampl	ing (temp wells only).
1							*
		-			1	()	-
			PRE	PARED BY:	/m	A H	

MONITORING WELL CONST	RUC	TION DATA		WELL/BORING NO	D: 5B-003/MW
monitorinto nelle conor			•	PERMIT NO:	- 30 coj Mw
DATE: 10/14/a (PROJECT NAME:	WMAT	TA Northern Bus S	Station	PROJECT NO:	0444100
WELL SITE LOCATION PLAN:	7			LAT:	
	-	LLING CO: E2			20110.
X				Charlet	
	DKI	LE CREW: 2	STALL OW	SINGLE CASED	PMONITORING
				TE DOUBLE CASED	
	- 1	☐ TEMPORARY	_	☐ OTHER	
WELL SCHEMATIC			INSTA	LLATION DATA	
TOC ABO	OVE		SOAP WAS		
GROUND RISER B OR STICE	OX	JOINTS:	THREADE	STAINLESS TE D WELDED O D OTHER NO DESCRIBE	FLON OTHER COUPLED
	FT.	WELL SCREEN: DIAMETER:	Devo 3	STAINLESS TE 4" 6" 01 0.020 OTHER	THER IN
ANNULAR BACKFILL BOREHO		DRILLING	SOLID STE	EM HOLLOW STE	EM MUD ROTARY H HAND AUGER
FT. CASING	G	DRILLING MUD:	2" 4" NONE OTHER	6" 🔀6" 🗌 WATER (12" OTHER IN BENTONITE
CEMENT DIAMETE		CENTRALIZER:	YES [XNO	
WELL GROUT SCH. DEPTH SILICA SAND SCH. FROM NATIVE SOIL TOC OTHER	IN.	COMPLETION: LOCK TYPE:	DOLPHIN	DUNT STICKU MASTER	KEY NO
				NUMBER OF DR	
FT.		CUTTINGS:	SPREAD	OTHER	UMS
SEAL DENTONITE MASONRY SA	-	METHOD: TIME:	SURGE & E	BLOCK OTHE 20 MIN D 10 GAL	IMPING AIR LIFT ER OTHER MIN OTHER GAL OPAQUE CLEAR
FILTER PACK WELL SCREEN FT. LENGTH		WATER AFTER: EVIDENT ODOR:		TURBID	OPAQUE CLEAR
TYPE	Н	DEVELOPMENT WATER:	☐ DRUMMED☐ SPREAD	NUMBER OF DR	
Bravel 10		WATER LEVEL:	INITIAL TO	0 FT □BT	OC BLS
1		DATE:			FT BELOW TOC
OVER	45	DATE:			FT BELOW TOC
DRILL SUM	NO NO	NOTES: (DE	SCRIBE ALL NON	-STANDARD METHODS	& MATERIALS)
(CROSS OUN F NOT DRILLED)	IN.	Well removed	I from site upon	completion of sampli	ing (temp wells only).
			20	(),1	
	PRE	PARED BY:	16/2	Dett	

58-00451 MONITORING WELL CONSTRUCTION DATA WELL/BORING NO: PERMIT NO: PROJECT NO: 0444100 PROJECT NAME: WMATA Northern Bus Station DATE: 10/15/2 TWN: RGE: LAT: LONG: WELL SITE LOCATION PLAN. SEC: E2CR DRILLING CO: Druce Marin + DRILL CREW: SINGLE CASED MONITORING SHALLOW WELL TYPE: ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY PERMANENT TEMPORARY OTHER ☐ OTHER DEEP INSTALLATION DATA WELL SCHEMATIC STEAM CLEAN HIGH PRESSURE WASH SOAP WASH OTHER_ TOC ABOVE PVC MATAINLESS TEFLON OTHER CASING TYPE: **GROUND IF** THREADED WELDED COUPLED RISER BOX JOINTS: OR STICKUP SCREWED OTHER PIT CASING: YES NO DESCRIBE FT. WELL SCREEN: PVC STAINLESS TEFLON OTHER DIAMETER: 2" 4" 6" OTHER IN SLOT: 0.010 0.020 OTHER IN BOREHOLE DRILLING SOLID STEM HOLLOW STEM ■ MUD ROTARY DIAMETER ANNUL AR METHOD: AIR ROTARY MIRECT PUSH ☐ HAND AUGER BACKFILL 2 OTHER IN. 2" 4" 6" 8" 12" OTHER NONE WATER RENTONITE BIT SIZE: FT. DRILLING MUD: OTHER CASING DIAMETER CENTRALIZER: YES KNO **CEMENT** TOTAL **BENTONITE** STICKUP RISER BOX COMPLETION: FLUSH MOUNT IN WELL **GROUT**□ DOLPHIN MASTER KEY NO DEPTH SCH. LOCK TYPE: SILICA SAND OTHER **FROM** NATIVE SOIL PAD: 2'X2' 4'X4' OTHER TOC OTHER . 26 CUTTINGS: DRUMMED NUMBER OF DRUMS SPREAD OTHER_ SEAL BENTONITE MASONRY SAND DEVELOPMENT NONE BAILING DUMPING AIR LIFT METHOD: SURGE & BLOCK OTHER K FT. DOTHER 10 MIN 5 GAL 20 MIN 10 GAL MIN TIME: OTHER OTHER GAL AMOUNT WATER BEFORE: SILTY TURBID □ OPAQUE CLEAR TURBID □ OPAQUE CLEAR WATER AFTER: SILTY **FILTER** EVIDENT ODOR: YES NO TYPE WELL **PACK SCREEN** DRUMMED NUMBER OF DRUMS FT. DEVELOPMENT LENGTH ☐TREATED ☐ POTW ☐ OTHER WATER: SPREAD INITIAL 18 FT BTOC BLS WATER LEVEL: DATE: FT BELOW TOC FT BELOW TOC **OVER** DATE: WELL SUMP DRILL NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS) XYES INO FT. 2 IN. Well removed from site upon completion of sampling (temp wells only). (CROSS OUT IF NOT DRILLE PREPARED BY:

MONITORING V	VELL CONSTI	RUC	TION DATA	\	WELL/BORIN	G NO: SB-00+D/-
					PERMIT NO:	
DATE: 10/15/21	PROJECT NAME:	WMA [*]	TA Northern Bus S	tation	PROJECT NO	: 0444100
WELL SITE LOCATION	PLAN:	SEC	C: TWN:	RGE:	LAT:	LONG:
		DRI	LLING CO: E2	2CR	•	
	X	DRI	LL CREW:		_	
						D MONITORING
' 						CASED RECOVERY
			▼ TEMPORARY			
WELL SCI	HEMATIC			INST	ALLATION DAT	A
			DECON.			PRESSURE WASH
	TOC ABO	VE		_	ASH OTHE	
	GROUND					TEFLON OTHER COUPLED
	RISER BO		JUINTS:		D OTHER	
			PIT CASING:	YES [NO DESCRI	BE
		FT.	WELL SCREEN:	ĭ PVC □	STAINLESS [TEFLON OTHER
1	- BEREE		DIAMETER:	□ 2" □] 4" 🔲 6" [OTHER IN
	BOREHO	LE				
ANNULAR	DIAMETE	ER				V STEM MUD ROTAF
BACKFILL	2	IN.	METHOD:	OTHER	RY LYDIRECT	PUSH HAND AUGE
			BIT SIZE:	2" 4	" 6" 8"	12" OTHER II
F	CASING	3 1	DRILLING MUD:	OTHER	□ WATER	T REMIONILE
CEMENT	DIAMETE		CENTRALIZER:		₩ NO	
TOTAL BENTONITE WELL GROUT	}	IN.	COMPLETION:	☐ FLUSH M	OUNT X ST	ICKUP RISER BOX
DEPTH SILICA SAND	SCH.		LOCK TYPE:	DOLPHIN	MASTER	KEY NO.
FROM NATIVE SOIL			PAD:	OTHER	□ 4'X4' □ OT	HER
18			CUTTINGS	CA DDIIIME	D NUMBER C	DF DRUMS
FT. T			CUTTINGS;		OTHER_	
SEAL	BENTONITE		DEVELOPMENT	DNONE	E BAILING [PUMPING AIR LIFT
FT.	☐ MASONRY SA☐ OTHER	טמו	METHOD:	SURGE 8		OTHER
1 1			TIME:	☐ 10 MIN ☐ 5 GAL	20 MIN 10 GAL	☐ OTHER MIN
		ı	WATER BEFORE:	_	TURBID	OPAQUE CLEAR
FILTER	T INFIN		WATER AFTER:		TURBID	OPAQUE CLEAR
PACK	WELL		EVIDENT ODOR:	YES [NO TYPE _	
FT. TYPE	LENGTI	Н	DEVELOPMENT WATER:			OF DRUMS ED POTW OTHER
TYPE FT.	5	FT.	WATER LEVEL:	_		BTOC BLS
	1					FT BELOW ESS
	V		DATE:			
OVER DRILL	WELL SUN	MP	DATE:			FT BELOW TOC
FT.	MYES □					HODS & MATERIALS)
(CROSS OUT IF NOT DRILLED)		IN.	Note: Lewoner	u irom site upc	in completion of s	ampling (temp wells only).
\				0	0	
			EPARED BY:	// =	/	•

MONITORING	WELL CONSTI	RUCTION DATA	A	WELL/BORING N	0: 5B-0068/-
		and the same at		PERMIT NO:	1
DATE: 10/15/21	PROJECT NAME:	WMATA Northern Bus S	Station	PROJECT NO:	0444100
WELL SITE LOCATION	N PLAN:	SEC: TWN:	RGE:	LAT:	LONG:
_ ا		DRILLING CO: E		,	
		DRILL CREW: 17	Paroj &	Bruce.	
	×	WELL TYPE:	SHALLOW	SINGLE CASED	MONITORING
		PERMANENT		ATE DOUBLE CAS	
WELL SO	HEMATIC	EWPORART		ALLATION DATA	LIOTHER
1		DECON	Петелис	DEAN DUCHERE	COURT MACU
A				LEAN HIGH PRE	
	TOC ABO		* PVC	STAINLESSTE	EFLON OTHER
	RISER BO	DX JOINTS:	THREADE	D WELDED	COUPLED
1	OR STICK	PIT CASING:	YES X	D OTHER DESCRIBE	
		T. WELL SCREEN	Æi pvc. □	STAINLESS TE	FLON DOTHER
1 1		DIAMETER	2" □]4"	THER IN
	BOREHOI	LE		0 020 OTHER	
ANNULAR BACKFILL	DIAMETE			EM HOLLOW STE	EM MUD ROTAR H HAND AUGE
BAON ICC	2 a	N.	OTHER		
FT.		DRILLING MUD	NONE 2" 4'	"	12" OTHER IN BENTONITE
CEMENT	CASING		OTHER	NO.	
TOTAL BENTONITE				- 4	
WELL GROUT□ DEPTH SILICA SAND□	SCH.		DOLPHIN	MASTER	P RISER BOX
FROM NATIVE SOIL		PAD	OTHER L	100 (10 (10 (10 (10 (10 (10 (10 (10 (10	
33.				D NUMBER OF DR	
FT.	The second secon	COTTINGS:		OTHER	UMS
SEAL	☐ BENTONITE ☐ MASONRY SAM	DEVELOPMENT	NONE	□ BAILING □ PL	IMPING TAIR LIFT
FT.	OTHER	METHOD:	SURGE &	BLOCK OTHE	ER
		TIME:	☐ 10 MIN ☐ 5 GAL		OTHER MIN GAL
FILTER	H	WATER BEFORE: WATER AFTER:	SILTY SILTY	= =	OPAQUE CLEAR
PACK	WELL	EVIDENT ODOR:	=	NO TYPE	
FT.	SCREEN		☐ DRUMME!	D NUMBER OF DR	UMS
TYPE	5	T. WATER:	SPREAD	TREATED [POTW OTHER
		WATER LEVEL:	INITIAL 💆	<u>185</u> FT □ BT	OC BLS
+ +	V	DATE:			FT BELOW TOC
OVER		DATE:			
DRILL	WELL SUM		SCRIBE ALL NO	N-STANDARD METHODS	& MATERIALS)
(CROSS OUT IF	2.1	N. Well removed	I from site upor	n completion of sample	ing (temp wells only).
NOT DRILLED)			-		C (comp name conj)
			///	(),	
		PREPARED BY:	broke	Int	
		7			

WELL/BORING NO: 58-0065/FML/-0065 MONITORING WELL CONSTRUCTION DATA PERMIT NO: 0444100 PROJECT NO: PROJECT NAME: WMATA Northern Bus Station DATE: 10/15 LONG: LAT: RGE: SEC: WELL SITE LOCATION PLAN: DRILLING CO: E2CR Mario & Bruce. DRILL CREW: MONITORING SINGLE CASED SHALLOW ☐ INTERMEDIATE ☐ DOUBLE CASED ☐ RECOVERY WELL TYPE: PERMANENT OTHER ☐ OTHER ☐ DEEP TEMPORARY INSTALLATION DATA WELL SCHEMATIC STEAM CLEAN HIGH PRESSURE WASH DECON. OTHER SOAP WASH PVC STAINLESS TEFLON STHER TOC ABOVE CASING TYPE: THREADED WELDED COUPLED GROUND IF JOINTS: RISER BOX OR STICKUP PIT CASING: OTHER PVC STAINLESS TEFLON 22" 4" 6" OTHER WELL SCREEN DIAMETER \$70 010 □ 0.020 □ OTHER SLOT MUD ROTARY SOLID STEM HOLLOW STEM BOREHOLE DRILLING HAND AUGER AIR ROTARY DIRECT PUSH DIAMETER ANNULAR METHOD: OTHER BACKFILL ☐ 6" ☐ 8" ☐ 12" ☐ OTHER W IN. 7 2" 4" BIT SIZE: ☐ WATER ☐ BENTONITE NONE DRILLING MUD FT. OTHER CASING NO YES CENTRALIZER: DIAMETER CEMENT FLUSH MOUNT STICKUP RISER BOX BENTONITE COMPLETION: DOLPHIN MASTER KEY NO. TOTAL IN GROUT LOCK TYPE WELL SCH. BOTHER (Mane) 4'X4' XTOTHER MONL SILICA SAND DEPTH NATIVE SOIL 2'X2' FROM PAD: OTHER [TQC NUMBER OF DRUMS DRUMMED CUTTINGS: 26 SPREAD OTHER FT. PUMPING AIR LIFT BENTONITE NONE BAILING SEAL DEVELOPMENT SURGE & BLOCK OTHER_ MASONRY SAND METHOD: OTHER 20 MIN OTHER ☐ 10 MIN FT. TIME: GAL OTHER ☐ 10 GAL ☐ 5 GAL AMOUNT OPAQUE CLEAR TURBID SILTY WATER BEFORE: CLEAR TURBID SILTY WATER AFTER: YES NO TYPE FILTER EVIDENT ODOR: WELL **PACK** NUMBER OF DRUMS SCREEN □ DRUMMED DEVELOPMENT OTHER TREATED POTW 13½_{FT.} LENGTH □ SPREAD WATER: YPE INITIAL W18 & FT 10 FT. BTOC K BLS WATER LEVEL: FT BELOW TOC DATE: FT BELOW TOC DATE: NOTES: (DESCRIBE ALL NON-STANDARD METHODS & MATERIALS) OVER WELL SUMP DRILL YES NO Well removed from site upon completion of sampling (temp wells only). IN. (CROSS OUT IF NOT DRILLED) PREPARED BY

General Field Testing and Measurement

Field Instrument Calibration Records

PSI PROJE	ECT NAME:	WMA	TA		-		PSI PROJ	ECT NO:
INSTRUM	ENT (MAKE	E/MODEL#)	DRAE-3		INSTRUM	MENT #	PGM - a	2500
TEMPE		CONDI	UCTIVITY UAL CI	_		□ pH □ OTHEF		
values, and	i the date the	standards w	ere prepared	ls used for calil d or purchased	1			
Standard I Standard I Standard (4 <u>CO - 51</u> B H2\$ - 10 CCH4 - 5E	ppm ppm	<u>D</u> : 🖸	1-18%		lot # 30 omp	4-401 - 2/27	7:43647
DATE	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
10/11/21	10:04	A	50 ppm	44	6%.	yes.	lort.	RR
1		B	Dpgm	8,0.	20%.			
		C	50%	39.	22%			
	V	D	18%	17.9	5-1%	1		
	15:46.	A	50	47.	6-/.	yes	Cont	RR
		B	10	8699.0	[5]/a	. /		
		C	50%	42%.	16-/-			
(/)	7)	D	18%	18.0-	0		_	
10/12/21	9:01	A	APR 50	49	2/.			
	201	3	8/10	8,4	16°/			
		C	50	33	34'/			
1 - 121	7:50	D	18/16	17.6	3 °/.	4	Ψ	_₩
10/13/21	7:59	A	50	49	3 -			
		B	10	10				
		<u>د</u>	50'/	33				
	像1735	Ã	18% 50	18.0 49.				
	10011133	13	10	9.8	- 3			
		C	50%	32				
		17	18-/.	18.2.				
014/21	801	A	50	4.5				
<i>r</i> ,		3	10	3.5.				
		C	501	297.				
9		0	181	18.3				

General Field Testing and Measurement

Field Instrument Calibration Records

PSI PROJE	CT NAME:	WMATA Nor	thern Bus St	ation	-			0444100
	ENT (MAKE				INSTRUI	MENT#	·	
	「 ER(S) (che ERATURE DITY		JCTIVITY	SALINITY DO		☐ pH	4 /20	ORP
STANDAR	RDS: [Speci	fy the type(s,) of standard	s used for calib	ration, the	origin of the	standards, t	he standard
Standard A		standards w	ere prepared	d or purchasedj	1			
Standard E								
Standard (2							
DATE (yy/mm/dd)	TIME (hr:min)	STD (A, B, C)	STD VALUE	INSTRUMENT RESPONSE	% DEV	CALIBRATED (YES, NO)	TYPE (INIT, CONT)	SAMPLER INITIALS
p/14/21	1800	A	50	47.				
1		B	10	903				
		C	50%	30				
1 1		D	187.	18,2.				
10/15/21	pq 1/	A	50	46				
		B	10	8,2				
		C	50%	31,				
	. 4 4 6	D	18%	18 00				
	1445 -	Α	50	48				
		В	10	9-8				
		C	50%	£ 33				
- l-b.	m2.40	D	18/.	17.9.				
10/8/21·	0740	A	10	<i>4</i> 9.				
		B	501.	9.9.				
		<u>C</u>	187.	32-7- 18-17.				
	1610	D A	50	19				
		В	10	9.7				
		С	50%	32				
			18%	18-3				
		D A	/ -					$\overline{}$
		18			u .			
		É .			· ·			
10		4						

	MW - a	01		SAMPLE ID	MI	1-001		DATI	1/6	12	
					PURG	ING DAT	Α				
WELL	(inches) 2		O. 1875	WELL SCR	EEN INTE	RVAL	TIC DEPTH	PUR	E PUMP TY	PE	
DIAMETER WELL VOL			TER (inches):	L WELL DEPTH	STATIO	1 7.35 TO	WATER (feet)	16.3 OR B	AILER PP		_
	if applicable)	***************************************									
FOLIDMEN	T VOLUME PUR	GE: 1 FOUR	= (2:	+. 6 fee = PUMP VOLUME	t - /TURIN	C CAPACITY	reet) X	O.16		foot =	_
	if applicable)	ot. I tean	MLINI VOL.		NO	TE YSI 556N	IPS flow cell v	olume = 500 m	. = 0.13 gallo	ns (1 gallon =	3,785
INITIAL PUR	MP OR TUBING	FIN	IAL PUMP OF		ns + (IG	/foot X		t) +	galions TAL VOLUME	
DEPTH IN V		21 DE	PTH IN WELI		INITIATE	ED AT: 11.2K	ENDED	1 -2		IRGED (gallon	
	VOLUME	CUMUL.	PURGE	DEPTH TO	рH	TEMP.	COND. (circle units)	DISSOLVEI OXYGEN	TURBI	DITY OR	
TIME	PURGED (gallons)	PURGED	RATE (gpm)	1 1 1	standard	(°C)	μmhos/cm	mg/L /	(NTU		
1	-	(gallons)		3	units)		or (S/cm)	% saturation			
11:22	0.5 gal	0.5	-0,000		7.06	14.68	1875	28.2	<u>. 38</u>		<u>3_</u>
11:30	10A ONE	1.54	0.13	16.3' 4	238	14.17°	1871	31.8	1. 40.	1 - 11	4
11:44	0.78	2.32	0.13 n.095	16.31	7-37	14,57°	1880	49.40.8	7. 29.	8 -118	3 .
11.48	0.52	2.84	0.13		7.37	14.99°	1889	33.7 ;			
11: 54	0.38	3.62	0.13		7. 38	15 0	1877	29.87			
12.02	10 de 04	4.66	0.13		7.37	13.8	1889	27.8 /			
12.08	0.78	5.44	0.13		1.35	1325	1876	26.17	78.		
12.11	0.39	5.83	0.13		7.35	13.38	1870	24.6	78.		_
10.11		2.02	0	12	. , ,	13.70	10 10	U 1 1/3	700	- 10	-
				 							$\overline{}$
WELL CAPA	CITY (Gallons Pe	er Foot) 1/2	" = 0.010: 0	75" = 0.02; 1" =	0.04 1.2	5" = 0.06: 2"	'= 0.16: 3" =	0.37 4" = 0.6	5 5" = 1.03	5" = 1 A7	12" ~
TUBING INS	IDE DIA. CAPAC	ITY (Gal./Ft.)			014 1/4	4" = 0.0026;	5/16" = 0.00				12 -
PURGING E	QUIPMENT COD	ES B = i	Bailer: BF	= Bladder Pump;						0.010	5/8" =
_							mers ble Pum		ristaltic Pum		
CANDI ED D		LIATION	lead	S	AMPL	ING DAT	Ά	p; PP = Pe	ristaltic Pum	p	
SAMPLED B	Y (PRINT) / AFFI		SAI		AMPL	ING DAT	A SAM	P: PP = Po	ristaltic Pum	P 0 = Oth	
PUMP OR T	Y (PRINT) / AFFII	R	TUE	MPLER(S) SIGNA	AMPL TURES: 2	ING DAT	A SAM	PLING ATED AT:		p	
PUMP OR T DEPTH IN W	Y (PRINT) / AFFI PL UBING /ELL (feet) 2	R I	TUI	MPLER(S) SIGNA BING TERIAL CODE: HI	AMPL TURES: 6	ING DAT	SAM INITO	PLING ATED AT: ED: Y Dement Type:) FIL	SAMPLING ENDED AT: TER SIZE:	her (Sp
PUMP OR T DEPTH IN W FIELD DECC	Y (PRINT) / AFFII UBING VELL (feet) ONTAMINATION:	PUMP/3	TUB MA	MPLER(S) SIGNA	AMPL TURES: 6	OTHER (spec	SAM INITI FIELD-FILTER Filtration Equip	PLING ATED AT: ED: Y MED: Y) FIL	SAMPLING ENDED AT: TER SIZE:	ner (Sp
PUMP OR T DEPTH IN W FIELD DECC	Y (PRINT) / AFFII UBING VELL (feet) ONTAMINATION: APLE CONTAINES	PUMP/3	N TUB	MPLER(S) SIGNA SING TERIAL CODE: HI	AMPL OURES: 6	ING DAT	SAM INITI FIELD-FILTER Filtration Equip	PLING ATED AT: EED: Y ment Type: 'N DUPL) FIL	SAMPLING ENDED AT: TER SIZE: N SAMPLING	DUP. I
PUMP OR T DEPTH IN W FIELD DECO	Y (PRINT) / AFFII UBING VELL (feet) ONTAMINATION:	PUMP/3 R SPECIFICA MATERIAL CODE	MA' N TUB TION VOLUME	MPLER(S) SIGNA BING TERIAL CODE: HI	DPE cced) SAMPLE ADDEL	OTHER (special PRESERVATION OTAL VOL. DIN FIELD (m.	SAM INITI FIELD-FILTER Filtration Equip fy) ION FIN	PLING ATED AT: EED: Y Oment Type: 'N DUPL AL AI) FIL	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT	DUP. I
PUMP OR T DEPTH IN W FIELD DECO SAM SAMPLE	PLE CONTAINERS	PUMP (-X) R SPECIFICA MATERIAL CODE	N TUB TION VOLUME	MPLER(S) SIGNA BING TERIAL CODE: HI ING () N (repla PRESERVATIVE USED*	DPE (ced) SAMPLE ADDED	OTHER (specific preservation of the volume o	SAM INITI FIELD-FILTER Filtration Equip f(y) ION FIN L) Ph	PLING ATED AT: ED: Y N DUPL IN AL A AND/C	FIL CATE: Y TENDED NALYSIS OR METHOD	P: O = OU SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE	DUP I
PUMP OR T DEPTH IN W FIELD DECC SAM SAMPLE ID CODE	PLE CONTAINERS	PUMP(X) R SPECIFICA MATERIAL CODE AG,	N TUB TION VOLUME 244 L	MPLER(S) SIGNA SING TERIAL CODE: HI ING () N (repla PRESERVATIVE USED*	DPE (ced) SAMPLE ADDED	OTHER (special PRESERVATION OTAL VOL. DIN FIELD (m.	SAM INITI FIELD-FILTER Filtration Equip f(y) ION FIN L) Ph	PLING ATED AT: ED: Y N Oment Type: ' N DUPL AL A AND/G	FIL CATE: Y TENDED NALYSIS OR METHOD - DRO/	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I
PUMP OR T DEPTH IN W FIELD DECO SAM SAMPLE ID CODE	PY (PRINT) / AFFII QUBING VELL (feet) 2 DINTAMINATION: IPLE CONTAINERS # CONTAINERS	PUMPAS R SPECIFICA MATERIAL CODE AG, CG	N TUB TION VOLUME VOLUME AONL	MPLER(S) SIGNA BING TERIAL CODE: HI ING N (repla PRESERVATIVE USED* HCI HCI	DPE (ced) (CAMPLE (CED)	OTHER (specific preservation of the volume o	SAM INITI FIELD-FILTER Filtration Equip f(y) ION FIN L) Ph	PEING ATED AT: EED: Y N Oment Type: Y N DUPL AL AI AND/G TPH G-80	CATE: Y TENDED NALYSIS OR METHOD - DRO/ ORO O VOC	P: O = OU SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE	DUP I
PUMP OR T DEPTH IN W FIELD DECC SAM SAMPLE ID CODE	PLE CONTAINERS	PUMP/X R SPECIFICA CODE AG, CG	N TUB TION VOLUME 244 L	MPLER(S) SIGNA SING TERIAL CODE: HI ING () N (repla PRESERVATIVE USED*	DPE (ced) (CAMPLE ADDED	OTHER (specification) OTHER (specification) PRESERVATION OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL. OTAL VOL.	SAM INITI FIELD-FILTER Filtration Equip fy) ION FIN L) Ph	PEING ATED AT: EED: Y N Oment Type: Y N DUPL AL AI AND/G TPH G-80	FIL CATE: Y TENDED NALYSIS OR METHOD - DRO/	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I
PUMP OR T DEPTH IN W FIELD DECO SAM SAMPLE ID CODE	PY (PRINT) / AFFII QUBING VELL (feet) 2 DINTAMINATION: IPLE CONTAINERS # CONTAINERS	PUMPAS R SPECIFICA MATERIAL CODE AG, CG	N TUB TION VOLUME VOLUME AONL	MPLER(S) SIGNA BING TERIAL CODE: HI ING N (repla PRESERVATIVE USED* HCI HCI	DPE (ced) (CED) AMPLE (CED) (C	OTHER (special PRESERVATION OTAL VOL.) IN FIELD (m.)	SAM INITI FIELD-FILTER Filtration Equip fy) ION FIN L) FIN	PEING ATED AT: ED: Y N Oment Type: N DUPL AL AND/ TPH GAO 826	CATE: Y TENDED NALYSIS OR METHOD - DRO/ ORO O VOC	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I
PUMP OR T DEPTH IN W FIELD DECC SAM SAMPLE ID CODE	PY (PRINT) / AFFII QUBING VELL (feet) 2 DINTAMINATION: IPLE CONTAINERS # CONTAINERS	PUMP/X R SPECIFICA CODE AG, CG	N TUB TION VOLUME 24.1 L AOAL 42 AOAL 1 L	MPLER(S) SIGNA BING TERIAL CODE: HI ING O N (repla PRESERVATIVE USED* HCI HCI NOTE	DPE (ced) (CED) AMPLE (CED) (C	OTHER (specific preservational vol.) In FIELD (m. 2000 m. 2000 m.	SAM INITI FIELD-FILTER Filtration Equip fy) ION FIN L) FIN	PEING ATED AT: ED: Y N Oment Type: N DUPL AL AND/ TPH GAO 826	FIL CATE: Y TENDED NALYSIS OR METHOD - DRO/ /ORO O VOC	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I
PUMP OR T DEPTH IN W FIELD DECC SAM SAMPLE ID CODE	PY (PRINT) / AFFII QUBING VELL (feet) 2 DINTAMINATION: IPLE CONTAINERS # CONTAINERS	PUMP/X R SPECIFICA CODE AG, CG	N TUB TION VOLUME 24.1 L AOAL 42 AOAL 1 L	MPLER(S) SIGNA BING TERIAL CODE: HI ING O N (repla PRESERVATIVE USED* HCI HCI NOTE	DPE (ced) (CED) AMPLE (CED) (C	OTHER (specific preservational vol.) In FIELD (m. 2000 m. 2000 m.	SAM INITI FIELD-FILTER Filtration Equip fy) ION FIN L) FIN	PEING ATED AT: ED: Y N Oment Type: N DUPL AL AND/ TPH GAO 826	FIL CATE: Y TENDED NALYSIS OR METHOD - DRO/ /ORO O VOC	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I
PUMP OR T DEPTH IN W FIELD DECC SAM SAMPLE ID CODE	PY (PRINT) / AFFII QUBING VELL (feet) 2 DINTAMINATION: IPLE CONTAINERS # CONTAINERS	PUMP/X R SPECIFICA CODE AG, CG	N TUB TION VOLUME 24.1 L AOAL 42 AOAL 1 L	MPLER(S) SIGNA BING TERIAL CODE: HI ING O N (repla PRESERVATIVE USED* HCI HCI NOTE	DPE (ced) (CED) AMPLE (CED) (C	OTHER (specific preservational vol.) In FIELD (m. 2000 m. 2000 m.	SAM INITI FIELD-FILTER Filtration Equip fy) ION FIN L) FIN	PEING ATED AT: ED: Y N Oment Type: N DUPL AL AND/ TPH GAO 826	FIL CATE: Y TENDED NALYSIS OR METHOD - DRO/ /ORO O VOC	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I
PUMP OR T DEPTH IN W FIELD DECC SAM SAMPLE ID CODE	UP (PRINT) / AFFII UBING VELL (feet) 2 ONTAMINATION: #PLE CONTAINERS 5 2	PUMP/X R SPECIFICA CODE AG, CG	N TUB TION VOLUME 24.1 L AOAL 42 AOAL 1 L	MPLER(S) SIGNA BING TERIAL CODE: HI ING O N (repla PRESERVATIVE USED* HCI HCI NOTE	DPE (ced) (CED) AMPLE (CED) (C	OTHER (specific preservational vol.) In FIELD (m. 2000 m. 2000 m.	SAM INITI FIELD-FILTER Filtration Equip fy) ION FIN L) FIN	PEING ATED AT: ED: Y N Oment Type: N DUPL AL AND/ TPH GAO 826	FIL CATE: Y TENDED NALYSIS OR METHOD - DRO/ /ORO O VOC	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I
PUMP OR T DEPTH IN W FIELD DECO SAM SAMPLE ID CODE PHA COO AMOUNT AMOUNT FARCA	UMES:	PUMPAS R SPECIFICA MATERIAL CODE AG, CG AG PE REMARKS:	N TUB TION VOLUME 24.1 L AOML 1 L	MPLER(S) SIGNA SING SING TERIAL CODE: HI ING () N (repla PRESERVATIVE USED* HCI HCI HCI HNO 3	DPE (ced) SAMPLE TO ADDED	OTHER (specific preservational vol.) In FIELD (m. 2000 m. 2000 m.	SAM INITI FIELD-FILTER Filtration Equip fy) ION FIN L) FIN	PEING ATED AT: ED: Y N Oment Type: N DUPL AL AND/ TPH GAO 826	FIL CATE: Y TENDED VALYSIS OR METHOD - DRO/ /ORO O VOC	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I
PUMP OR T DEPTH IN W FIELD DECC SAM SAMPLE ID CODE TO	UMES:	PUMP(S) R SPECIFICA MATERIAL CODE AG, CG PE REMARKS: Samples pla G = Amber G	N TUB TION VOLUME 24-1 L 40-0L 1 L acced on ice sules; CG =	PRESERVATIVE USED* HCI HNO 3	DPE (ced) (SAMPLE (CED)	OTHER (specific preservation of the preservati	SAM INITI FIELD-FILTER Filtration Equip (fy) ION FIN L) P	PLING ATED AT: IED: Y N DUPL AL AND/ A AND/ FAH GAO 826 827 4 RC	FIL CATE: Y TENDED NALYSIS OR METHOD - DRO/ IORO O VOC DO SUOC DA Met-	SAMPLING ENDED AT: TER SIZE: N SAMPLING EQUIPMENT CODE RFPP	DUP I SAM

consider stbilized, ORP: + 10 mV

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash. DI water final rinse & air dry
3 1 gpm = 3,785 4 mL/min

SITE NAME	WMATA North	ern Bus Statio	on	Washing	ton D.C. 20	15 14th Stree 011	t NW		PROJEC		144100 144100	2
WELL NO	MW- DO	2		SAMPLE	MW	-002			DATE:	. 1	6/22	
					_	ING DAT	ΓΑ					
WELL	g _1, _1, _1	TUBING		5 WELL S	CREEN INTE	RVAL ST	ATIC DEPTH		PURGE	PUMP TY	PE	
DIAMETER WELL VOLU	(inches) Q IME PURGE: 1	WELL VOLU	ER (inches)	DEPTH	de STATE	C DEPTH TO	WATER (feet)	IH.7	OR BAIL	ER: PP		
(only fill out	If applicable)	***************************************										- 10
EQUIPMENT	VOLUME PUR	GE: 1 EQUIP	= (2'	8.3	eet - J	H.7	feet) 2			gallons	foot = 2.	176 gallons
(only fill out i					NO.	TE: YSI 5561	MPS flow cell v	olume	= 500 mL =	0 13 gaile	ons (1 gallon	= 3,785 mL)
INITIAL PUN	P OR TUBING	FIN	AL PUMP OF		PURGIN	IC	J/foot X	IG	feet) +		gallon OTAL VOLUM	
DEPTH IN W	ELL (feet) 3		PTH IN WELL	(feet): 21	INITIATI	ED AT 14	ENDED	AT:	14:35		JRGED (gallo	
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (galions)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP (°C)	COND (circle units) µmhos/cm	0.	SOLVED XYGEN mg/L / saturation	TURBI (NTL		COLOR/ ODOR (describe)
14:17	0~5	0.5	0.17	14.7	7.61	15.15°	715		.37.	10	-10	01 clear of
14:25	1.36	1.86	0.17	14.7	7.42	15.42	717		.5	8	-11	
14:30	0.85	2.71	0.17	14.7	7.38	15.39	714		.3	9	-12	
14:33	0.51	200321	0.17	14.7	7.37	15.41	713		.8	11	-12	
14. 35	0.34	3.56	0,17	14.7	7.35	15.39	713		.7	9.4	-12	
											_	
								-	_			
			-		-	-		-	-	-	_	_
TUBING INSI PURGING EC	CITY (Gallons Pe DE DIA, CAPACI UIPMENT CODI	ITY (Gal./Ft.) ES: B = B	1/8" = 0 000 ailer: BP	06 3/16" = 0 = Bladder Pum	0014 1/4 P ESP SAMPL	4" = 0 0026 = Electric Sul ING DAT	5/16" = 0 00 pmersible Pum	04; :	3/8" = 0 006 PP = Peristi	, 1/2"	= 0 010	12" = 5,88 5/8" = 0 016 ther (Specify)
SAMPLED BY	PRINT) / AFFIL	JATION:	SAN	PLER(S) SIGN	TURES	1		PLING ATED		35	SAMPLING	414:50
PUMP OR TU	BING			ING	7		FIELD-FILTER		111		TER SIZE _	
EPTH IN WE	TAMINATION:		N TUBI	ERIAL CODE:	HDPE	OTHER (spec	Filtration Equip		71			
	LE CONTAINER			IAG (1) IA (16)		PRESERVAT		N	DUPLICAT			DUP ID
SAMPLE	# CONTAINERS	MATERIAL		PRESERVATIV		DTAL VOL	FIN	AL	INTEN			SAMPLE PUMP
ID CODE		CODE	TOLUME	USED*	ADDEC	IN FIELD (m	L) pi	1	AND/OR N	METHOD	CODE	(mL per minute)
1W-002	5	AG, CG	14,100L	HCI	21	20 ml			TPH-DA		RFPP	614 nL/
	3	C6	40mL	HCI	12	20 ML			8260 V	OC		1
	2	AG	14	none	20	000 mh			8270 5	ZOC		
V		PF	14	HNO3	10	00 mL			4 RCLA		1	al
									1			-
							_			-		
							_	_				-
WELL VOLU	MES:	REMARKS								_		
ATERIAL CO	ss gal.											
AMPLING/PI	IRGING APP = A	3 = Amber Gla After Peristaltic	Pump B =	Baller; BP = Bla	PE = Polyet dder Pump;	ESP = Electric	= Polypropyle Submersible	Pump:	PP = Perista	dtic Pumi	· WM = Wate	Other (Specify)
QUIPMENT	CODES: RFPP =	Reverse Flor	w Peristaltic F	ump SM = Stra	w Method (T	ubing Gravity	Drain): VT = \	acuum	Trap, O = O	ther (Spe	city); LP = La	ab Preserved
UIE3: 15	tabilization Crite H: ± 0.1 units Te	<u>rra for range :</u> emperature: +	or variation of 3% Specific	last three cons Conductance	ecutive read + 3% Diss	lings per EPA	EQASOP-GW	4	ster than 0.5	mo/L if	three DO well	
	ess than 0,5 mg/l										DILEG DO VAIL	ies

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

3 1 gpm = 3,785.4 mL/mln



SITE NAME	E: WMATA North	ern Bus Stati	ion	SITE LOC	ATIÓN: 46 on D.C. 20	15 14th Stree	et NW			PROJEC	T NO.: B			$\overline{}$	
WELL NO:				SAMPLE		011				DATE:			4100		
	MW-C	03				M-00.					- 1/	6/2	2		
DATE: 1		1	22	-		ING DA				2		î			
WELL DIAMETER	(inches):	TUBIN	G TER (inches):	WELL SCI				DEPTH ER (feet):		PURGE OR BAIL		PE			
	UME PURGE: 1	WELL VOLL	JME = (TOTA	L WELL DEPTH	- STATI	C DEPTH TO	WAT	ER) X	WELL	CAPACITY	EK: PP				
	t if applicable)					7.3				_					
EQUIPMEN	IT VOLUME PUR	GE: 1 EQUIF	= (7.63 fe	et – / E + /TUBIN	G CAPACITY	<u> </u>	feet) X	INGI	2.16 ENGTH) + F	gallons/	foot	=		gallons
(only fill out	if applicable)				NC	TE: YSI 556	MPS f	low cell vo	lume	= 500 mL =	0.13 gallo	ons (1	gallon =	3,785 r	nL)
INITIAL PUI	MP OR TUBING	FII	NAL PUMP OF	= gaile ? TUBING	PURGIN		is/foot	X PURGING	3	feet) +		TALL	gallons OLUME		gallons
	WELL (feet):			(feet): 22°	INITIAT			ENDED A) (gallon		
	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	pН	TEMP.		OND.		SOLVED					COLOR/
TIME	PURGED	PURGED	RATE		(standard	(°C)	1 '	de units) hos/cm		KYGEN ng/L /	TURBII (NTL		OR (m)		ODOR
	(gallons)	(galions)	(gpm)	(feet)	units)	(-,	,	μS/cm		aturation	(,,,,		[''''	″ ·	(describe)
		<u></u>				1									
									_					_	
	<u> </u>		 	 	/	1 . 5	h.	00/1107			1	1		-	
	 	-			-	free	In	oduci		Nou	vere,	_			
							1								
	. 9					ľ		- 1							
					-										
							\vdash							-+	
			-				-	+						-	
		-	-				-								
WELL CAR	COTY (Callery D	F0 - AM	11 - 0.040												
TUBING INS	ACITY (Gallons Po	er root):	:	/5"=0.02; 1"= 36: 3/16"=0:	= 0.04; 1.2 3014:	15" = 0.06; 2 4" = 0.0026;	!" = D; 5/4	16; 3" = 0 1 6" = 0.004	0.37; 1	4" = 0.65; 3/8" = 0.006		2; 6" = ' = 0.0		12" = 5 /8" = 0.1	
PURGING E	QUIPMENT COD	ES: B = 1		= Bladder Pump		= Electric Su		ible Pump		PP = Perist				er (Spe	
				/5	AMPL	ING DAT	ГА					5,00		117.00	-200
SAMPLED B	IY (PRINŤ) / AFFI	LIATION:	SAN	APLER(S) EGNA	TURES:	1		SAMP				SAM	PLING		
PUMP OR T	UBING		TUE	ING 1/	30		leiei e	INITIA D-FILTERE	TED A		=11		ED AT:		
DEPTH IN W	/ELL (feet):	221 Z	MAT	ERIAL CODE: M	DPE		Filtrat	ion Equipa	nent T	VDE:	FIL	TER S	IZE:	μm	
FIELD DECC	NTAMINATION:	PUMP Y		NG (Y) N (repla		OTHER (spec			N	DUPLICA	TE: Y	, N	Ċ	UP. ID:	
	IPLE CONTAINE		TION			PRESERVA"	TION			INTER	IDED	SAM	PLING	SAMP	LE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED*		OTAL VOL) IN FIELD (m		FINA	-	ANAL	YSIŞ	EQUI	PMENT	FLOV	N RATE
				USED	ADDEL	ווא רובנט (ת	nL)	pH		AND/OR I	METHOD	C	ODE	(mL pe	r minute)
MW-003	real eggs	AG.	11.40M	HCL		الم مداه	<u> </u>			TPH-DI	40 JORD GRO	RI	FPP		
1	3				 	9190 W	- 1					 			
	2	CG	40 ML	HCL		120 ML		_		8260	VOC				
	~	AG_	12	NONE		2000 M	4			8270	SYOC				
	1	DE	12	HN03	1	000 ML	-			4 R	CRA	\			
	·														
					 		-							_	
					 		+				_	<u> </u>			
WELL VOL	UMES:	REMARKS:													
***********	omeo.		aced on ice su	bsequent to colle	etion										
ATERIAL C		G = Amber G	lass; CG = (Clear Glass; F	E = Polyet	hylene; P	P = Pc	olypropyler	ne; :	S = Silicone	T = Te	eflon;	0 = C	ther (Sp	ecify)
AMPLING/F	PURGING APP =	After Peristalt	ic Pump; B ≃ l	Bailer, BP = Blad	der Pump;	ESP = Electri	ic Sub	mersible P	ump:	PP = Perista	altic Pumr	· WM	= Water	Level	/leter
OTES: 1	CODES: RFPP Stabilization Crite	ria for range	of variation of	last three conse	v Method (1	ubing Gravity	y Drain	SOP-GWA	cuum	Trap; O ≈ C	ther (Spe	ecify); I	LP = Lat	Preser	ved
	pH: ± 0.1 units To	emperature:	± 3% Specific	Conductance:	±3% Diss	olved Oxyge	n: 109	% for value	s grea	iter than 0.5	mg/L, If t	three C	O value	18	
	less than 0,5 mg/	L, cinsider va	lues as stabili:	zed Turbidity: 10)% for vlau	es greater tha	in 5 N	TUs, if thre	e turb	idity avalue:	s are less	than 5	NTUs	,	

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, Di water final rinse, & air dry.

3 1 gpm = 3,785.4 mL/min

ISITE NAME	: WMATA Norti	iem Bus Stati	on	SITE 17	DOATION: 46	1E 14th Chann	ABBAS	1000 17			
		10111 202 31211	011	Washin	igton D.C. 20	15 14th Stree	I MAA	PROJE	CT NO.: MAN		
WELL NO:				SAMPL		011		DATE:	<u> </u>	14100	
L	MW-	004		10, 1111 -		MW -00	9	DATE	1/6	/22	
	72. 10	7.832	7.			ING DAT			10	1000	
WELL		TUBING	3 0.187	E WELLS	CREENINTE	DIVAL TOT	ATIC DEDTU	lôunos	Dillen mon		
DIAMETER	(inches): o	DIAME	TER (inches):	DEPTH	32. 3 feet to	3331 TO	ATIC DEPTH	IN D' IOR BAIL	PUMP TYPE	•	
WELL VOLU	JME PURGE:	1 WELL VOLU	ME = (TOTA	L WELL DEPT	H - STATI	С БЕРТН ТО	WATER) X	VELL CAPACITY	/ / / / / / / / / / / / / / / / / / /		
(only fill out	if applicable)										
EQUIPMENT	VOLUME PUF	RGE: 1 FOUR	= (38.61	feet	D. CARACITY	feet))		gallons/foo	t = 4.8	7 gallons
(only fill out i	f applicable)	TOU. I EQUIT	MEITT TOE.	- FOINIF VOLU	NC NC	TE: YSL556	X TÜ MPS flow cell v	BING LENGTH) + i	FLOW CELL	VOLUME	
INVESTIGATION OF THE	IP OR TUBING	1=00			alions + (galion:	s/foot X	feet) -	F A Ballotta	gallons :	
DEPTH IN W	FIL (feet):		IAL PUMP OR PTH IN WELL		PURGIN		PURGIN	_		L VOLUME	
DEI HUMAN	_	CUMUL.			INTRATE	DAT: 13;	COND.		3 PURC	GED (gallons)):
TIME	VOLUME PURGED	VOLUME	PURGE	DEPTH TO	pH	TEMP.	(circle units)	DISSOLVED OXYGEN	TURBIDIT	YORP	COLOR
1	(gallons)	PURGED	RATE (gpm)	WATER (feet)	(standard units)	(°C)	μmhos/cm	mg/L/	(NTUs)		ODOR
<u> </u>	,	(gallons)	(8)/	1 1	uritis)		Or µS/cm	% saturation			(describe
15120	0.5	0.5	0.13	27'	7.53	14,5	1352	5.27.	2.24	-100	Cleany
15:25	0.65	1.15	0.13	27'							
15:30			_		7.50	14.64°	1355	3.8%	1.49	-10=	- fetrolow
	0.65	1.80	0.13	37'	7.49	14.6	1359	3.17.	1.8	7 -115.	8
15:36	85.0	2.58	0.13	27'	7.24	14.62	1430	4.7%	1.63	3 -100	
15:40	0,65	3.23	0.13	27'	6.96	14 50°	1471				~
15; 45								4.11.	1.37		
	0.65	3.88	0.13	27'	6.81	14.59°		3.7 /.	1.90	7 - 78	.4
<i>15:5</i> 0	0.65	4.53	0.13	27	6.73	14.57°	1483	3.8%	1.45	76.	7
15:53	0.39	4.92	0.13	27'	6.69	14.57°		3.9%	2.06		
					7	1101	1100	3 . 1/.	2.00	77.	7
WELL CADA	NTV (O-11 6	- W - 1) - 1400									1
TUBING INSI	DE DIA. CAPAC	er F00(); 1/2:	1/9" - 0.000	/5" = 0.02; 1' 6; 3/16" ≃ :	" = 0.04; 1.2	5" = 0.06; 2'	' = 0.16; 3" =	0.37; 4" = 0.65;			2" = 5.88
PURGING EQ	UIPMENT COD	ES: B = B		= Bladder Pun		" = 0.0026; = Electric Sub	5/16" = 0.00 mersible Pum				i ^m = 0.016
				Diddido, 1 di		NG DAT		p; PP = Perist	aruc Pump;	O = Other	(Specify)
SAMPLED BY	(PRINT) / AFFI	LIATION:	SAM	PLER(S) SIG		IND DAI		PLING	10.00	-	690
	(PRINT) / AFFI	RR						ATED AT: 15:		AMPLING NDED AT:	16:11
PUMP OR TU	-	271	TUB		1	T	FIELD-FILTER	ED: Y (N)		R SIZE:	μm
DEPTH IN WE		27'		ERIAL CODE:			Filtration Equip	ment Type:	11070		_ part
	TAMINATION:	PUMP (Y)		VG (Y) N (re		THER (speci		N DUPLICAT	ΓE: Y	N DL	IP. ID:
	LE CONTAINE					PRESERVAT	ION	INTEN	IDED S	AMPLING S	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI		TAL VOL	FINA	L ANAL	YSIS EC		FLOW RATE
				USED*	ADDED	IN FIELD (mi	L) pH		METHOD		mL per minute)
Mir.L.ooA	_	AG,	11 110	44 = 4				TPH-W2	o logo	REPP	500 MY
MW-004	5	CG	11,40,4	HCI	2	20 ML		9	rb I	AFFF	2007
	3	CG	40ML	HCL		20 ML		8260	VOC		minute
	2	A6	14	None		00 ML		200			Test new Co
V	1	, ,	11_					8270		-	
	-	DE	112	HNOS	10	30 ML		4 RCR	:A	V	
							<u>.</u>				
	{										
									_		
					_						
WELL VOLUM	MES:	REMARKS:									
24	// /	REMARKS: ⁵ Samples plac	ced on ice sub	sequent to col	llection						
MATERIAL CO	DES: A	G = Amber Gla	ss: CG ≃ C	ear Glass:	PE = Polyeth	ylene: PP	= Polypropyle	ne; S = Silicone;	T = Teflor	1: O = O#	er (Specify)
SAMPLING/PU	RGING APP = /	After Peristaltic	Pump: B = B	alter: BP = Bla	dder Pump: E	SP = Flectric	Submereible F	Dump: DD - Decists	Hip Dumen, 181	MA = 10/stes 1	
CONTRACTOR OF	ODES: KPPP	= Reverse Flov	v Penstaltic Pi	amp SM = Stra	aw Method (Ti	Johna Gravity	Drain): VT = V:	CIUM Tran O = O	ther (Specify) LP = Lab P	reserved
OILS IS	anusauon Cure	<u>ina iorrange c</u>	<u>or variation of l</u>	ast three cons	secutive read	nos per EPA I	FOASOP-GWA	es greater than 0.5		7.7	
le	ss than 0.5 mg/	L, cinsider valu	Jes as stabiliz	ed Turbidity:	10% for vlaue	oved Uxygen Signater then	5 NTI le if the	es greater than 0.5 se turbidity avalues	mg/L, if three	e DO values	
CC	msider stollized	OKP: + 10 II	IV.						310 IC35 (J)2		1.
2 St	andard deconta	mination proce	edures include	s DI water rin:	se, Luminox s	olution wash,	DI water final r	inse, & air dry		3	14

3 1 gpm = 3,785,4 mL/min

SHENAM	E: WMATA North	em Bus Stati	on	SITE LO	DCATION 46 igton D.C. 20	15 14th Stree	t NW		PROJE	CT NO.			
WELL NO				SAMPL	EID:				DATE		011	4100	,
	Mh	1-00	<u>a</u>		TM	W-00			J		1/:	7/a	ຊ
name d					PURG	ING DAT	ΓΑ					-	
WELL DIAMETER	(inches)	TUBING	G OFTY TER (inches):	75 WELLS	CREEN INTE	RVAL ST	ATIC DEPT	HA	PURGE	PUMP T	YPE		
WELL VOL	UME PURGE: 1	WELL VOLU	ME = (TOTA	L WELL DEPT	H - STATI	C DEPTH TO	WATER)	X WELL	. CAPACITY	ER PP			
(only fill ou	t if applicable)	1		0 00		4.98	feet)	x 0 a			. 18	0	15 gallons
ВОИРМЕН	IT VOLUME PUR	GE: 1 EQUIP	MENT VOL.	PUMP VOLU	ME + (TUBIN	IG CAPACITY	′ X	TUBING L	ENGTH) +	FLOW C	ELI. VO	DLUME	
	if applicable)			= 9:	NC allons + (OTE YSI 556 gallon	MPS flow ce	ll volume	= 500 mL = feet) -	0.13 gall	lons (1	gallon =	
DEPTH IN I	MP OR TUBING		NAL PUMP OR PTH IN WELL		PURGIN	NG .	PURC	SING		TO		VOLUME	
521 111111	VOLUME	CUMUL	PURGE	DEPTH TO		ED AT: LE	COND	DIS	SOLVED	I P	URGE	D (gallons	
TIME	PURGED	VOLUME PURGED	RATE	WATER	pH (standard	TEMP.	(circle unit	s) 0	XYGEN	TURB		ORF	I ODOR
	(gallons)	(gallons)	(gpm)	(feet)	units)	(°C)	µmhos/cr or uS/cm		mg/L) saturation	(NTI	Us)	(mV	(describe
140	001	0.1	0.066	14,98	7.00	14.9	1185	4	.73	16	18	-57	clear
1:53	0.198	0,298	0.066	14.93	6.84	15.4	1294		55	60		-60	4 4 7
1.55	0,132	0.43	0,066	14.98	6.78	15,7	1330		58	2.4		1	1 /
1.57	0.09	(2053	0.04	14.93	6.76	15.7	1347		-53			-63.	
1:59	0.09	0.61	0.04	14.98	6.76	15,7	1354		54	2.6	3	-62,	
1.01	10001	U.B.	0,01	17,70	טדיט	13,1	100	10.	34	2.	' _	-61	N.
						A E		-		_			
	ļ												
							-	-					
								<u> </u>					
WELL CARA	CITY (Galloon Br	East) 419	7 - 0.040 . 0	7511 - 0.00									
TUBING INS	CITY (Gallons Pe IDE DIA, CAPAC	ITY (Gal/Ft)	1/8" = 0.000	75" = 0.02; 1" 6; 3/16" =	" = 0 04; 1.2 0.0014; 1/4	25" = 0.06; 2 4" = 0.0026;	" = 0.16; 3' 5/16" = 0	' = 0.37, 004	4" = 0 65 3/8" = 0 006		2 6"		12" = 5.88 8" = 0.016
PURGING E	QUIPMENT COD	ES B=E	lailer BP	= Bladder Pun	np, ESP	≃ Electric Sul	bmersible Pu		PP = Perist				er (Specify)
SAMOLED B	Y (PRINT) / AFFIJ	1471011	lânn			<u>ING DAT</u>							100
OVIAIL-FED P	RI	2 IATION:	SAM	IPLER(S) SIGN	-) N	S/	AMPLING	AT: 2	2.5		PLING ED AT:	
PUMP OR TI		17	TUB	ING			FIELD-FILTI	ERED: Y	W		TER S		μm
DEPTH IN W	NTAMINATION:	PUMF Y		ERIAL CODE		OTHER (spec	Filtration Eq	uipment 1 Y N	ype: DUPLICA	TE	711		110.10
	PLE CONTAINER					PRESERVAT		1 11			1,0		UP, ID:
SAMPLE	# CONTAINERS	MATERIAL	VOLUME	PRESERVATI		OTAL VOL		INAL	INTER			IPLING IPMENT	SAMPLE PUMI FLOW RATE
ID CODE		CODE		USED*	ADDED	IN FIELD (m	L)	pH	AND/OR	METHOD			(mL per minute
rmw-aaz	2	AG	12	nore	2.	000	6	76	8270 SVO		inc	00	2.70
J	3	CG	ADML	HCI		10			8260		RF		<u>250</u>
		CO	TOML	HUI	10		- 6.	7,6	8260	VUC.	d	\longrightarrow	250
							_		-		-		
							_				<u> </u>		
					-								
TAIGHT NO.	IMPO. A												
WELL VOL		REMARKS: 'Samples pla	ced on ice sub	sequent to co	llection								
IATERIAL C	ODES: (/ AC	3 = Amber Gla	155, CG = C	lear Glass.	PE = Polvet	hylene; Pf	Polyprop	ylene; :	S = Silicone	T = To	eflon:	O = Ot	her (Specify)
AMPLING/P QUIPMENT	URGING APP = A	After Peristaltic	c Pump; B = B	lailer; BP = Bla	adder Pump; I	ESP = Flectric	Submersib	le Pump	DD = Deciet	altic Duese	0.14/14	= 16fetes I	avel Meine
DIES: 1	CODES: RFPP = Stabilization Crite	na for range o	of variation of	last three cons	secutive read	inas per EPA	EOASOP-G	W4					
1	pH: <u>+</u> 0.1 units Te	mperature: 1	3% Specific	Conductance	: ± 3% Disse	olved Oxyger	n: 10% for v	alues orea	ter than 0.5	mg/L, if	three C	00 values	
	ess than 0.5 mg/	OPP 10	uus as sidiliilZ =\/	en intolatty:	1076 TOF VIBUE	s greater that	n 5 NTUs, if	inree turb	idity avalue:	s are less	than 5	NTUs,	

consider stbilized_ ORP: + 10 mV.

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry

3 1 gpm = 3,785 4 mL/min

SITE NAME	: WMATA North	em Bus Statio	on	SITE LO	CATION: 46	15 14th Stree	t NW		IPRO IFC	T NO.:	446077	÷ -	
					gton D.C. 20				1 110000			1100	
WELL NO:	TMW	-0046		SAMPLE	ID:	MW-C	045		DATE:			7/28	2
					PURG	ING DAT		=				jac	<u> </u>
WELL	eta atra-tr	TUBING			CREEN INTE		ATIC DEPTH	14.5	PURGE	PUMP TY	/PE		
DIAMETER WELL VOLU	(inches): JME PURGE: 1	WELL VOLU	ER (inches):	WELL DEPTH:	<i>⊇56</i> ∮eet to H − STATI	75.65 TO	WATER (fee	1): 14. 2(OR BAIL	ER: PP			
(only fill out	if applicable)			_									•
EQUIPMENT	T VOLUME PUR	GE: 1 EQUIP	<u>= (6/</u> MENT VOL. =	5.65 PUMP VOLU	teet – ME + (TLIBIN	14.20	feet)		D . 04 ENGTH) + F	gallons/	foot =	= 0.4(o gallons
(only fill out i					NC	TE: YSI 5561	MPS flow cell	volume :	= 500 mL =	0.13 gallo	ons (1)	gallon = 3	
INITIAL PUM	IP OR TUBING		AL PUMP OR		Illons + (PURGIN		s/foot X PURGI	NG	feet) +			gallons = OLUME	gallons
DEPTH IN W	/ELL (feet):		PTH IN WELL	(feet): 20	INITIATI	ED AT: 11: (9 ENDE	AT:	11:19			(gallons):	
	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	pН	TEMP.	COND.		SOLVED XYGEN	TURBI	דעדע [ORP	COLOR/
TIME	PURGED (gallons)	PURGED	RATE (gpm)	WATER (feet)	(standard units)	(°C)	μmhos/cm		ng/L/	(NTL		(mV)	ODOR
	(94.101,0)	(gallons)	(8bitt)	(1661)	units)		or (S/cm	% 5	aturation				(describe)
11:09	0.2	0.2	0.066	14.20	5.44	13.650	929	6	2.07	10.	1	-41.9	3 clear
11:13	0.26	0.46	0.066	14.20	5.41	13.95°	930	2	.14	7.0	51	-46	no oda
11: 15	0.132	0.592	0.066	14.20	5.47	#81400	937	2	.14	4.5	8	-47.6	5
11:17	0.132	0.724	0.066	14.20	5.51	14.06	939	2	.13	2.=	74	-48	
11:19 -	0.132	0.856		14.08	5.59	14.06	940		.14	2.3		-47.	
		0.000		. (100	3.01	11.00	1 10	1 62	* 1 1	α.,	75	1 4.	0
			_								-		
		-						-	_		-		
WELL CAPA TUBING INSI	CITY (Gallons Pe	er Foot): 1/2' :ITY (Gal /Ft):	" = 0.010; 0.7 1/8" = 0.000	75" = 0.02; 1' 6; 3/16" = (25'' = 0.06; 2' '4" = 0.0026;	" = 0.16; 3" 5/16" = 0.0		4" = 0.65; 3/8" = 0.006		2; 6" = * = 0.01		
PURGING EC	UIPMENT COD	ES: B = B		= Bladder Pun		= Electric Sut			PP = Perist	,		O = Other	" = 0.016 (Specify)
				53	SAMPL	ING DAT	Ά						75 SE SESSES
SAMPLED BY	(PRINT) / AFFI	LIATION:	SAM	PLER(S) SICH	WTURES:	Did	A CONTRACTOR OF THE PARTY OF TH	MPLING	AT: 11:	22-	SAMP		
PUMP OR TU	IBING	201	ТИВ		1//		FIELD-FILTE				TER SI		_ μm
DEPTH IN W	ELL (feet): NTAMINATION:	PUMP (Y)	MAT	ERIAL CODE:			Filtration Equ	_	-				
	PLE CONTAINER			NG (rep		OTHER (spec		Y N	DUPLICA*	TE: Y	T N	DU	P. ID:
SAMPLE		MATERIAL		PRESERVATI		OTAL VOL		NAL.	INTEN				AMPLE PUMP
ID CODE	# CONTAINERS	CODE	VOLUME	USED.		O IN FIELD (m		H	ANAL AND/OR				FLOW RATE mL per minute)
					0	000		~0	8,77	o syoc		V	· · · · · · · · · · · · · · · · · · ·
TMW-0095	2	_AG	IL	Nona		000	5	59	04,		7	7	250
	3	CG	40ml	HCL	/	20	5.	59	8260	VOC	7	<u>P</u>	250
	+												
											-		
											 		
					+						<u> </u>		
WELL VOLU	MES.	REMARKS:						_					
2.			ced on ice sub	sequent to co	llection								
ATERIAL CO	ODES: A	G = Amber Gla	995; CG = C	lear Glass:	PE = Polvel	thylene; Pi	P = Polypropy	lene; \$	5 = Silicone	T = Te	eflon;	O = Oth	er (Specify)
AMPLING/PI	URGING APP = CODES: RFPP	After Peristalti = Reverse Flo	c Pump; B = B w Peristallic P	Bailer; BP = Bla Jump:SM = Sto	adder Pump;	ESP = Electric	Submersible	Pump;	PP = Perista	altic Pump	p; WM :	= Water L	evel Meter
IOTES: 15	Stabilization Crite	eria for range	of variation of	last three cons	secutive read	dinos per EPA	EQASOP-GV	N4				77.50	reserved
F	oH: ± 0.1 units To	emperature:	3% Specific	Conductance	± 3% Diss	olved Oxyge	n: 10% for va	lues grea	ster than 0.5	mg/L, if	three D	O values	
	ess than 0,5 mg/	re, consider val	uca es 5(80 2	ed i urbidity:	TO TOT VIBU	es greater tha	n 5 N i Us, if t	nree turb	dity avalue:	s are less	than 5	NTUs,	

consider stbilized; ORP: + 10 mV.

² Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

^{3 1} gpm = 3,785.4 mL/min

CITE MAME	LAMES AT A NILLAL	Pres - P4-41		louize						- 222				
DIVE NAME	: WMATA North	ern Bus Statio	on		DCATION: 46 ngton D.C. 20	15 14th Street	NW		PROJEC	T NO.: A				
WELL NO:				SAMPL		1011			DATE		244	1100		
	TMY	1-004	D	JONIUS E	TN	1W-00	dP		DATE:	1	121	22		
						ING DAT	The same of the sa				-	U QL		
WELL		TUBING		75 WELLS	SCREEN INTE	ERVAL STA	ATIC DEPTH		PURGE	PUMP TY	/PE			
DIAMETER	(inches): 1 UME PURGE: 1	DIAME	TER (inche	s): DEPTH	: 20.97 feet to	21.98 TO	WATER (feet)	: 13.70	OR BAIL	ER: PP				
(only fill out	if applicable)	WELL VOLU			IH - SIAII	CDEPIR TO	WATER) X	WELL	CAPACITY					
1			= (6	26.98	feet -	13.70		0	.04	gallons	/foat =	0.53	12	pallons
(aniv fill out	T VOLUME PUR If applicable)	GE: 1 EQUIP	MENT VO	L. = PUMP VOLU	JMË + (TUBIN	IG CAPACITY	X TU	BING LE	NGTH) + F	LOW CE	LL VO	LUME		
				<u>= g</u>	allons + (OTE: YSI 556N gallons	nPS flow cell v s/foot X	olume =	= 500 mL = (+ feet)			gallon = gallons		nt) gallons
	AP OR TUBING			OR TUBING	PURGII	NG	PURGIN	IG	5:	2 Tr	TAL V	OLUME		ganons
DEPTH IN V		CUMUL.		LL (feet): 🔍	INITIAT	ED AT: 10,4		AT:	10:4	7 PL	JRGED	(galions	3):	
711.45	VOLUME	VOLUME	PURGE		pΗ	TEMP.	COND. (circle units)		OLVED	TURBI	חודע	ORF	,	COLOR/
TIME	PURGED (gallons)	PURGED	RATE (gpm)		(standard units)	(°C)	μmhos/cm		ng/L/	(NTL	- 1	(mV)	۱ <i>۱</i>	ODOR
	-	(gallons)	(86111)	(1661)	-		or (S/cm	(% sa	aturation					(describe)
10:40	0.1	0.1	0.066	20.30	6.33	12.2°	967	26	0.0%	68.	4	-30	7 /	less/
10:43	0.198	0.298	0.060	6 20. AO	5.72	13.74°	942	14	.6 %	36.		- 42	51	10 odes
10:46	0.132	0.43	0.06	6 20 70	5.58	13.98°	938		3.7%	18.		-49		
10:49	0./32	0.56	0.06		5.49	14.00°	939		.5 %					
10:52								- 0.0	0.01 (0.01)	17.		- 54		,
10.32	0.132	0.69	0.06	1	5.43	14.19°	937	10	10%	//	3	- 56.	.4	
			-	1										
	T.			13.70					- 1					
	<u>, </u>													
											_			
										-	-			
WELL CAPA	CITY (Gallons Pe	er Foot): 1/2'	" = 0.010:	0.75" = 0.02: 1	" = 0.04	25" = 0.08: 2"	' = 0.16: 3" =	0.37	1" = 0 65:	E# - 1.02	1: 67 -	4 47: 4	199 - 5	00
TUBING INS	IDE DIA, CAPAC	ITY (Gal./Ft.):	1/8" = 0.0	0006; 3/16" =	0.0014 1/	4" = 0.0026;	5/16" = 0.00		4 = 0.03, 1/8° = 0.006		:, 0 - '= 0.01		12" = 5. 8" = 0.(
PURGING E	QUIPMENT COD	ES: B = B	Bailer; E	BP = Bladder Pui	mp; ESP	= Electric Sub	mersible Pum	p; l	PP = Perista			O = Othe		
				200		ING DAT	Α		- 3 - 2370 	-///			30.000	
SAMPLED BY	Y (PRINT) / AFFI	LIATION: 2R	s	AMPLER(B) SIZ	NATURES!	110		PLING	/0.		SAME			
PUMP OR TI	JBING 1	راح		UBIN6	mon	100	JINITI FIELD-FILTER		T: /0:	-	ENDE			
DEPTH IN W	ELL (feet):	21		IATERIAL CODE	HDPE		Filtration Equip			FIL	TER SI	ZE:	μm	
	NTAMINATION:	PUMP (V)		JBING (Y) N (re	placed)	OTHER (speci			DUPLICAT	E: Y	N	D	UP. ID:	
	PLE CONTAINER	R SPECIFICAT	TION			PRESERVAT	ION		INTEN	IDED	CARA	PLING	EAMO	E DUMP
SAMPLE	# CONTAINERS	MATERIAL	VOLUME	PRESERVAT		OTAL VOL	FIN	_	ANAL			PMENT		LE PUMP V RATE
ID CODE		CODE		USED*	ADDE	IN FIELD (ml	L) ph	<u> </u>	AND/OR N	METHOD				r minute)
The standard	_2	AG	12	none	1 2	000	101		8270			,		
TMW-004T							5-4		5000			'P	52	
	_3	CG	40mL	HCL	12	0	5.4	3	82601	VOC	PF		25	0
	14			_								-		
											_			
											_	-		
				-	_									
			<u> </u>											
														1
WELL VOLU	_	REMARKS:												
2.65				subsequent to co										
MATERIAL CO	URGING APP = /	a = Amber Gla	ass; CG	= Clear Glass; = Bailer: BD = Di	PE = Polyet	hylene; PP	= Polypropyle	ne; S	= Silicone;	T = Te	ellon;	O = Ot	her (Sp	ecity)
QUIPMENT	CODES: RFPP:	= Reverse Flo	w Peristalti	c Pump;SM ≂ Str	raw Method (1	ubino Gravity	Drain): VT = V	acuum '	rr = rensta Trap: O = 0	ittler (See	o; WM : ecify): F	= Water I P = I ah	Level M	reter ved
IOIES: 15	<u>Stabilization Crite</u>	ria_for range i	of variation	of last three con	secutive read	lings per EPA	EOASOP-GW	4						104
į.	oH: ± 0.1 units Te	emperature: <u>1</u>	3% Speci	fic Conductanc	e: ± 3% Diss	olved Oxygen	: 10% for valu	es grea	ter than 0.5	mg/L, if t	three D	O values	3	
	ess than 0.5 mg/	c, Gnaluer val	400 83 Sidl	mzeu rurbiaity;	זטז פרטו Viau	es greater than	ı ə N í Us, if thr	ee turbi	oity avalues	are less	than 5	NTUs,		

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

consider stbilized; ORP: + 10 mV

^{3 1} gpm = 3,785.4 mL/min

* No fittee pack sceen

GROUNDWATER SAMPLING LOG

SITE NAME	WMATA North	nern Bus Stati	ion			15 14th Stree	LNW		PROJEC	CT NO. 6			
WELL NO				SAMPLE	gton D.C. 20			_	DATE		244	100	
	IMh	1-00	65			MW-				1/-	1/2	a	
WELL		TURAL	C # 14 -	- Interne	PURG CREEN INTE	ING DAT			-	4	1		
DIAMETER			TER (inches)	DEPTH	250 eet to	15.75 TO	ATIC DEPTH WATER (feet)	13.6	PURGE OR BAIL	FR PP	YPE		
WELL VOL	UME PURGE:	1 WELL VOLU	JME = (TOTA	L WELL DEPT	H - STATI	C DEPTH TO	WATER) X	WELL	CAPACITY				
			= (e	25.38	feet - 44	3,66	feet)		.04	gallons	/foot =	0.48	palons
(only fill out	T VOLUME PUF if applicable)	RGE: 1 EQUIF	PMENT VOL.	= PUMP VOLUI	ME + (TUBIN NC	G CAPACITY	X TU MPS flow cell v	BING L	ENGTH) + F	LOW CE	LL VOL	UME	05 -11
INITIA: PUR	AP OR TUBING	Ten	NAL PUMP OF		llons + (gailon	s/foot X		feet) +		9	allons =	galions
DEPTH IN V	VELL (feet):			(feet): 30			PURGIN		12:1	a PI	DTAL VC JRGED (
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND (circle units) µmhos/cm	0	SOLVED YGEN ng/L	TURBI (NT	DITY	ORP (mV)	COLOR/ ODOR (describe
11:45	0.2	0.2	0,053	13.66	6.2	14.55°			44 mg/	+100		-61	+
11:52	0.371	1520	0.053	13.66	6.2		1100					-51	no odo
11:57	0.2	0.77	0.04	13.66	6.32	14.3°	1123	-	55	+100	-	-66	trebit water
12:02	0.2	0.97	0.04	13.66	6.28	13.980			.38	+10		-71.1	
12:07	0.4	1.37	0.04		6.22	13.800	1086			+10		-71.4	
10. 97	0.5	1.51	0.07	73.00	0.00	13.00	1000	0	.42	+8-	++	- 713	-
										-	-		
									_	_	-	_	-
					_			-		-	-	_	-
						-	_	-	_		-		
WELL CAPA	CITY (Gallons P	er Foot) 1/2	" = 0 010 0.	75" = 0.02; 1"	= 0 04; 1.2	!5" = 0 06; 2'	" = 0.16; 3" =	0.37;	4" = 0.65:	5" = 1 0	2 6"=	1.47 12"	= 5.88
rubing ins	IDE DIA. CAPAC	CITY (Gal./Ft.)	1/8" = 0.000	$3/16^{\circ} = 0$	0.0014, 1/	4" = 0 0026	5/16" = 0 0	04 :	3/8" = 0.005	1/2	= 0.010	, 5/8"	= 0,016
ONOING E	ZOIFMENT COL	7E3. B-1	saller, BP	= Bladder Pun		ING DAT	omersible Pum	p:	PP = Perist	altic Pum	p; O	= Other (Specify)
SAMPLED B	Y (PRINT) / AFF		SAN	PLER(S) SIGN		201		PLING	10	_	ISAMPL	ING	
PUMP OR TU		R	THE	ING (Wing	- XX		ATED A			ENDED		
EPTH IN W	ELL (feet):	- 2	MA1	ERIAL CODE			FIELD-FILTER Filtration Equip			FIL	TER SIZ	Ε	μM
	NTAMINATION PLE CONTAINE	PUMP W		NG (Y) N (rep		OTHER (spec		N	DUPLICA	TE: Y	N	DUP	ID:
SAMPLE		MATERIAL		PRESERVATIV	_	PRESERVAT	FIN	۸۱	INTEN				MPLE PUMP
ID CODE	# CONTAINERS	CODE	VOLUME	USED*		IN FIELD (m			ANAL AND/OR I		COL		LOW RATE L per minute
MW-	2	10	12	Mara	1	000			8270				
0065		AG		none			6.6		SV	2	PF		2 00
V	3	CG	40 ML	HCL	/0	20	6.0	2	8260	VOC	PP		200
					-		-	_			_		
			-	_	-		-	_	-				
			-	-	1		-						
-	-	-			1								
		-			1								
WELL VOLU	IMES	REMARKS:	1	1/4	1								
2	. 92 agl.		ced on ice su	bsequent to col	lection								
ATERIAL C		G = Amber Gl		Clear Glass,	PE = Polyet	hylene; PF	Polypropyle	ne, s	= Silicone,	T = Te	eflon,	O = Other	(Specify)
QUIPMENT	URGING APP = CODES: RFPP	= Reverse Flo	w Peristaltic F	ump,SM = Stra	w Method (T	ubing Gravity	Drain): VT = V	асиит	PP = Perista Trap, O = C	other (Spe	p; WM =	Water Lev	el Meter
OTES: 1	Stabilization Crite	eria for range	of variation of	last three cons	ecutive read	ings per EPA	EOASOP-GW	4					
1	pH: ± 0 1 units T ess than 0.5 mg	/L. cinsider va	lues as stabili	ted Turbidity:	. ± 3% biss 10% for viau	es greater that	n 5 NTUs, if the	es grea ee turb	iter than 0,5 idity avalue:	mg/L, if s are less	three DC than 5 N	values VTUs.	

consider stbilized, ORP: + 10 mV

3 1 gpm = 3,785 4 mU/min

2 Standard decontamination procedures includes Di water rinse, Luminox solution wash, Di water final rinse, & air dry

12:42 6.2 0.2 0.052 12.99 6.39 11.46° 1198 2-11 22 -3 clear 12:46 0.208 0.41 0.052 12.99 6.52 13.16 13.55 0.49 2.3 -38.9 ms.dc	CITE NAME	INTRACTA NI						IPLING	LO	ق					
TUBING D. 1875 WELL SCREEN INTERPOL STATIC DEPTH D. DAMETER (inches) D. 1875 WELL SCREEN INTERPOL STATIC DEPTH D. DAMETER (inches) D. 1875 WELL SCREEN INTERPOL STATIC DEPTH D. DAMETER (inches) D. 1875 WELL SCREEN INTERPOL STATIC DEPTH D. DAMETER (inches) D. 1875 WELL SCREEN INTERPOL STATIC DEPTH D. DAMETER (inches) D. 1875 WELL SCREEN INTERPOL D. DAMETER (inches) D. DAMETER (inches) D. WATER	SHE NAME	: WMAIA North	nem Bus Stati	an				et NW		PROJEC					
VOLUME TUBING 0.7975 WELL SCREEN INTERPLY TATING DEPTH DIAMETER (inches)	WELL NO:	TOAJal	- 006			E ID:		A C 70		DATE:		1			
TUBING D. 1975 WELL ORDER PURGE TUBING D. 1975 D. 20 PURGE PURGE PURGE		110114	000			DITIO	IM- 0	060				7	35		
DIAMETER (Inches)	WELL			3 0.18	75 WELLS	CREEN INTE	RVAL IST	ATIC DEPTH		DURCE	DIIMO T	VDE.			
Control Papelable	DIAMETER	(inches): 1	DIAME	TER (inches):	DEPTH	· 20 4 Teet to	-18 LE TO	MAINTED WALL	12.99	100 000		IFE			
RELL CARACTY (Calloss Per Foot) 12" = 0.010 0.75" = 0.02; 1" = 0.04 1.25" = 0.08; 2" = 0.15; 3.00 1.25" 0.04 0.52 1.254 0.104 0.72 0.052 1.299 6.59 1.3.96 1.264 0.52 1.254 0.104 0.72 0.052 1.299 6.59 1.3.96 1.264 0.52 1.255 0.049 0.754 1.255 0.049 1.255 0.050 1.255 0.049 0.052 1.255 0.049 0.052 1.255 0.049 0.052 0.	(only fill out	if applicable)	1 WELL VOLU						WELL C	APACITY					
MOTE: YSI SSEMES Sov. cut volume = \$0.90 m. = \$1.9 quitons (f paticut specifies) PURRING PURING RING PURRING PURING PURI	FOLUDINENT	T VOLUME DUE	CE. 4 FOLKE	= (6	28.45	feet - /a	-99	feet)	x 0	.04	gallons	/foot	= .	62	gallons
SAMPLED BY (FRINT) / AFFLIATION SAMPLED BY (FRINCE) / PORT SAMPLED BY (FRINT) SAMPLED	(only fill out i	f applicable)	COE. I EQUIP	MENI VUL. :	FOMP VOLU				BING LE volume = !	NGTH) + f 500 mL =	FLOW CE 0.13 gall	ELL V(ons 73	OLÜME 1 gallon ≃	3 785	
DEPTH IN WELL (Rest)	INITIAL PUN	IP OR TUBING	FIN	IAL PUMP OR	TUBING	alions + {	gallon	s/foot X					gallons	=	
TIME PURGED PURGE (gallons) (gmm) Water (seed winds) (cardian	DEPTH IN W	/ELL (feet):	9' DE					42 ENDED	AT: 16	2:54					
PURGED Qualifors Qualifo	TIRAT	1					TEMP	1			THER	DITY			COLOR
12:12	LIIVIE		4	1	4			μmhos/cm	mg	I/LD					ODOR
12:50	17.47	6.2			1200	· ·	11.010						 _ _		(describe
12 : 50									1						clear
12:52 0.104 0.72 0.052 2.79 6.58 7.77 263 0.60 2 56.1 12:54 0.104 0.82 0.052 12.90 12.90 0.59 13.86 1264 0.52 14 -39.4 12:54 0.104 0.82 0.052 12.90 0.59 13.86 1264 0.52 14 -39.4 12:54 0.104 0.82 0.052 12.90 0.59 13.86 1264 0.52 14 -39.4 12:54 0.104 0.82 0.052 12.90 0.59 12.90 0.59 12.90 0.59 12.90 0.59 12.90 0.59 12:54 0.104 0.82 0.052 12.90 0.59 12.90 0.59 12.90 0.59 13:80 13:80 12.90 0.52 14 -39.4 14:50 15:50 12.90 0.52 14 -39.4 15:50 16:50 12.90 0.52 12.90 0.52 12.90 0.52 14.7 12.90 16:50 16:50 12.90 0.52 14.7 12.90 0.52 14.7 12.90 16:50 16:50 12.90 0.052 14.7 0.000 0.50 14.7 0.000 0.50 14.7 0.000 16:50 16:50 16:50 0.00 0.50 14.7 0.000 0.50 14.7 0.000 0.50 14.7 0.000 16:50 16:50 16:50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16:50 16:50 16:50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16:50 16:50 16:50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16:50 16:50 16:50 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 16:50 16:50 16:50 0.00														-	Mode
D:54 0.104 0.92 0.052 0.99 6.59 13.96 1264 0.52 0.52 0.52 0.53												5	- 46	.1	Suffee
VELL 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; 5" = 1.47; 12" = 5.88 USING INSIDE DIA. CAPACITY (GallFL): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 3/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016 URIGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submarable Pump; PP = Penstatic Pump; O = 0.01er (Specify) SAMPLED BY (PRINT) / AFFILIATION: SAMPLED BY (PRINT) / AFFILIATION: SAMPLED BY (PRINT) / AFFILIATION: Regulate of the property of											21		-56	-1	0
Value Valu	12:54	0.104	0.87	0.052	12 99	6.59	13.86	1264	0.	52	14		-59.	4	
Value Valu															
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PRESIDENCE SUPPRENT CODES: B = Bailer, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify) SAMPLING DATA SAMPLING SAMPLE PLOPE SAMPLING SAMPLE PLOPE S	VELL CAPAC UBING INSI	CITY (Gallons Pa DE DIA, CAPAC	er Foot); 1/2' HTY (GaL/Ft.):	" = 0.010; 0.7 1/8" = 0.000	75" = 0.02; 1 6: 3/16" =	" = 0.04; 1.2	5" = 0.06; 2								
SAMPLING DATA AMPLED BY (PRINT) / AFFILIATION: RE UMP OR TUBING EPTH IN WELL (feet): IELD DECONTAMINATION: SAMPLE CONTAINERS MATERIAL CODE: HEPE IELD DECONTAMINATION: SAMPLE PRESERVATION INTENDED ANALYSIS EQUIPMENT FLOW RATE (mL per minute) ADDED IN FIRAL AND/OR METHOD CODE WELL VOLUMES: 3.092 9L SAMPLE PLANE SAMPLE PRESERVATION SAMPLE PRESERVATION INTENDED ANALYSIS EQUIPMENT FLOW RATE (mL per minute) ADDED IN FIELD (mL) ADDED IN FIELD (mL) FINAL AND/OR METHOD CODE WELL VOLUMES: 3.092 9L Samples placed on ice subsequent to collection WELL VOLUMES: AG - Amber Glass: CG = Clear Glass. MELL VOLUMES: ADDED IN FIELD (mL) ADDED IN FIELD (mL) FINAL AND/OR METHOD CODE WELL VOLUMES: AG - Amber Glass: CG = Clear Glass. AG - Amber Glass: CG = Clear Glass. MPLINGPURGING APP = After Peristalite Pump; B = Baller, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristalitic Pump; WM = Water Level Meter SUPPLINGPURGING APP = After Peristalitic Pump; SM = Straw Method (Tubing Gravity Orain); VT = Vacuum Trap; O = Other (Specify) PP = Yolypropylene; PP = Peristalitic Pump; BP = Straw Method (Tubing Gravity Orain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved THES. 1 Stabilization Criteria for range of Variation of last three consecutive; readings per EFA GASSOP, CWA PH: ± 0.1 units Temperature; ± 3% Specific Conductance; ± 3% Specific May PRESERVE TRAD 0.5 mother in three CO variation of last three consecutive; readings per EFA GASSOP, CWA PH: ± 0.1 units Temperature; ± 3% Specific May PRESERVE TRAD 0.5 mother in three CO variation of last three consecutive; readings per EFA GASSOP, CWA PH: ± 0.1 units Temperature; ± 3% Specific May PRESERVE TRAD 0.5 mother in three CO variation of last three consecutive; 38 disaboleted Oxygen: 10% for values greater than 0.5 mother in three CO variation of last three consecutive; readings per EFA	URGING EQ	UIPMENT COD													
UMP OR TUBING EPTH IN WELL (feet): ITUBING INTITIATED AT: /2:57 ENDED AT: INTITIATED AT: /2							NG DAT	Ά		X 911			5 7 b		
UMP OR TUBING EPTH IN WELL (feet): I G I WATERIAL-CODE: HOPE FIELD-FILTERED: Y N FILTER SIZE: IFILTER SIZE	SAMPLED BY	(PRINT) / AFFI		SAM	IPLER(S) SIGI	NATIURES:	x)h			. 1.7	.57				
Internation Pump N TUBING N (replaced) OTHER (specify) Y N DUPLICATE: Y N								FIELD-FILTER	ED: Y	-(N)-				μП	n
SAMPLE CONTAINER SPECIFICATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION SAMPLE PRESERVATION INTENDED ANALYSIS AND/OR METHOD CODE TOTAL VOLUME STAMPLE PUMP FLOW RATE (ml. per minute) AGENTAL VOLUMES: 3.092 gcl. REMARKS: Samples placed on ice subsequent to collection ATERIAL CODES: AG = Amber Glass: CG = Clear Glass: PE = Polyethylene: PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) MPLING/PURGING APP = After Peristaltic Pump; B = Baller, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter plump Ment CODEs: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved ph: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 modil. if three PO varieties of PI = PO = Polypropyle (solve) and preserved ph: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 modil. if three PO varieties of PROVIDED CODE (solve) and preserved prese							THER (spec	Filtration Equip			· ·				
TOCODE #CONTAINERS CODE VOLUME USED* ADDED IN FIELD (mL) PH ANALYSIS EQUIPMENT FLOW RATE (mL per minute) TMW— TM									14						
ADDED IN FIELD (mL) pH AND/OR METHOD CODE (mL per minute) TMW OOG D 2 AG IL NOW 2,000 6.59 5YOC REPP 200 3 CG 40M HCL /20 6.59 8260 YOC REPP 200 WELL VOLUMES: 3.092 gcl. *Samples placed on ice subsequent to collection ATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) MPLING/PURGING APP = After Peristaltic Pump; B = Bailer, BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter AUDITION OF THE CODES: REPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify): LP = Lab Preserved DTES: 1 Stabilization Criteria for range of variation of last three consecutive readings per EPA EQASOP-GW4 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/l if three DO values		# CONTAINERS		VOLUME					AL						
WELL VOLUMES: 3.092 grd. **Samples placed on ice subsequent to collection **MERIAL CODES** AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) **MULING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter **MULING/PURGING APP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify): LP = Lab Preserved **DTES: 1 Stabilization Criteria for range of variation of last three consecutive readings per EPA EQASOP-GW4 **pH: ± 0.1 units Temperature; ± 3% Specific Conductance; ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/l if three DOxygings.	ID CODE		CODE		USED*	ADDEC	IN FIELD (m	L) ph	1/						
WELL VOLUMES: 3.092 gcl. *Samples placed on ice subsequent to collection ATERIAL CODES* AG = Amber Glass; *Cg = Clear Glass, PE = Polyethylene; *PP = Polypropylene; *Samples placed on ice subsequent to collection ATERIAL CODES* AG = Amber Glass; *Cg = Clear Glass, PE = Polyethylene; *PP = Polypropylene; *Samples placed on ice subsequent to collection *ATERIAL CODES* AG = Amber Glass; *Cg = Clear Glass, PE = Polyethylene; *PP = Polypropylene; *S = Silicone; *T = Tefion; *O = Other (Specify) *MPLING/PURGING APP = After Peristaltic Pump; *B = Baller, *BPP = Reverse Flow Peristaltic Pump; *SM = Straw Method (Tubing Gravity Drain); *VT = Vacuum Trap; *O = Other (Specify): *LP = Lab Preserved *DTES: 1 Stabilization Criteria for range of variation of last three consecutive readings per EPA EQASOP-GW4 *pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/l. if three PO values		2	AG	14	NOAG	2	000	6	-9		0	1154	on l	_	2 4 -
WELL VOLUMES: 3.092 gcl. *Samples placed on ice subsequent to collection ATERIAL CODES: AG = Amber Glass: CG = Clear Glass: PE = Polyethylene: PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify) WMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter UIPMENT CODES: 1 Stabilization Criteria for range of variation of last three consecutive readings per EPA EQASOP.GW4 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/l. if three DO values		. 3		And-								-			
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OTES: 1 Stabilization Criteria for range of variation of last three consecutive readings per EPA EQASOP-GW4 pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/L if three DO values			G = Amber Gia	ss; CG ≠ C	lear Glass;	PE = Polyet	nylene; PF	P = Polypropyle	ne; S=	Silicone;	T ≈ Te	flon;	0 = Ot	her (S	pecify)
pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/L if three DO values	40IF MENT C	ODES: KIPP:	= kevelze Flov	w Penstaltic Pi	ump:SM = Stri	aw Method (T	ubing Gravity	Orain): $VT = V$	acuum Tr	' = Perista ap; 0 = 0'	nic Pump ther (Spe	i; WM cify): I	= Water LP = Løb	Level Prese	Meter erved
less than 0.5 mg/L, cinsider values as stabilized Turbidity; 10% for values greater than 5 NTUs, if three turbidity avalues are less than 5 NTUs.	5120. I <u>S</u>	raniistanou Cure	sila for range o	or vanation or i	ast three cons	secutive read	inas per EPA	FOASOP-GW	A	and the second of the second		97.10	_		
	le	ss than 0.5 mg/	L, cinsider valu	les as stabiliz	ed Turbidity:	10% for vlaue	s greater than	n 5 NTUs, if thr	ee turbidil	y avalues	are less	than 5	ovalue: 5 NTUs,	5	

consider stbilized; ORP: + 10 mV

² Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

^{3 1} gpm = 3,785.4 mL/min

GROUNDWATER SAMPLING LOG SITE NAME: WMATA Northern Bus Station SITE LOCATION: 4615 14th Street NW PROJECT NO.: 64401-517 Washington D.C. 20011 WELL NO 0111100 SAMPLE ID TMW-0085 TWW-0085 **PURGING DATA** WELL TURING WELL SCREEN INTERVAL
DEPTH: 194 feet to 14.4

TO WATER (feet): 13.65

OR BAILER: PP DIAMETER (inches) DIAMETER (inches) WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable) 19.4 13.63 feet -EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY 0.04 feet) Х gallons/foot = 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) INITIAL PUMP OR TUBING oallons + gallons/foot X FINAL PUMP OR TUBING feet) + gailons = PURGING PURGING DEPTH IN WELL (feet): 161 16 1 DEPTH IN WELL (feet) INITIATED AT: 10:44 ENDED AT PURGED (gallons): CUMUL. VOLUME **PURGE** COND DISSOLVED **DEPTH TO** pΗ VOLUME TIME PURGED TEMP RATE WATER (circle units) COLOR/ OXYGEN (standard TURBIDITY PURGED ORP (oalions) (°C) μmhos/cm ODOR (map) (feet) units) mg/L/) (NTUs) (gallons) (mV)Of µS/CID % saturation (describe) 10:46 0.1 13.63 0.1 0.05 11.77° 6.10 3343 8.36 - *|2*.3 10:48 0.1 <u>0. ට</u> 0.05 13.63 6.21 11.65 3 353 6.0 11.65 -28. a 10: 50 0 - 1 0 3 0.05 13.62 6.20 3357 6.₹ 10.91 -34.00 10:52 4 0.1 0.05 Ð 13.63 6.31 3381 11,18 6.4 10.04 -35.8 10:55 0.15 0,55 0.05 13.6 6.31 3348 507 10.7 -38,1 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; PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump, SAMPLED BY (PRINT) / AFFILIATION SAMPLING DATA SAMPLER(SYSIGNATURES: SAMPLING SAMPLING INITIATED AT 10:58 PUMP OR TUBING ENDED AT TUBING FIELD-FILTERED: Y (1) DEPTH IN WELL (feet) 16 FILTER SIZE MATERIAL CODE: HDPE Filtration Equipment Type: FIELD DECONTAMINATION: PUMP (Y) N TUBING (Y) N (replaced) OTHER (specify) Y N DUPLICATE: (N) SAMPLE CONTAINER SPECIFICATION DUP. ID: SAMPLE PRESERVATION SAMPLE MATERIAL INTENDED SAMPLING PRESERVATIVE SAMPLE PUMP # CONTAINERS VOLUME TOTAL VOL FINAL ID CODE CODE **ANALYSIS** EQUIPMENT USED* FLOW RATE ADDED IN FIELD (mL) pH AND/OR METHOD CODE (mL per minute) 8270 1900-WA none 2,000 SVOC WO 40mL 6 .3 l 8260 VOC

EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump.SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify); LP = Lab Preserved 1 Stabilization Criteria for range of variation of last three consecutive readings per EPA EQASOP-GW4 pH; ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/L, if three DO values less than 0.5 mg/L, cinsider values as stabilized Turbidity: 10% for viaues greater than 5 NTUs, if three turbidity avalues are less than 5 NTUs,

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; WM = Water Level Meter

AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

Samples placed on ice subsequent to collection

3 1 gpm = 3,785.4 mL/min

REMARKS

5 WELL VOLUMES:

MATERIAL CODES

159

² Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

CITE NAME	WMATA North	Due Ctest			MANIE			IIIG	LO						
	. TIMATA NORII	ern bus Stati	on .		OCATION: 46 ogton D.C. 20		et NVV			PROJEC	T NO. A		110E)	
WELL NO	TMW-	CAR (X)		SAMPL		W-00	-T			DATE:		11/6			
		-000			_	ING DA					•	11/0	r DC		
WELL DIAMETER	(inches): I	TUBING	O・1名子ら TER (inches)	WELL S	CREEN INTE	RVAL ST	ATIC D	ÉPTH	2/1.7	PURGE	PUMP TY	'PE			
WELL VOL	JME PURGE: 1	WELL VOLU	ME = (TOTAL	WELL DEPT	24.5 feet to	C DEPTH TO	WATE	R (feet)	WELL	CAPACITY	ER; PP				
(only fill out	if applicable)		= (2	4.5	feet - 31	4.3	fe	eet))		.04		foot	= O.º	21	lla
(only fill out i	T VOLUME PUR	GE: 1 EQUIP	MENT VOL. =	PUMP VOLU	IME + (TUBIN	G CAPACITY	′ X	TU	BING LE	NGTH) + F	LOW CE	LL VO	LUME	-	galions
	P OR TUBING	lens			alions + (TE: YSI 556	s/foot	X		= 500 mL = + <u>feet</u>) +			gallons	=	mL) gallons
DEPTH IN V			IAL PUMP OR PTH IN WELL		PURGIN	IG ED AT: りわ:		PURGIN ENDED		0:28			OLUME (gallon:		7.7
	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	рH	TEMP.	CC	ND. units)	DIS	SOLVED					COLOR/
TIME	PURGED (gallons)	PURGED	RATE (gpm)	WATER (feet)	(standard units)	(°C)	umh	gs/cm		YGEN	TURBII (NTL		ORi (mV		ODOR
1-116	-	(gallons)			<u> </u>	100		S/c m		sturation				_	(describe)
10:16	0,1	0.1	0.05	14.3	5.93	12.70	27			54	11		4.3	$\overline{}$	clear
10:18	0.1	0.2	0.05	14.3	5.90	1224		85		.39	8.5		3		NA 00
10:20	0.1	0.3	0.05	14.3	6.7	13.37				.37	8.		7.		
10:22	0.1	0.4	0.05	143	5.7	13.25	270			37	5.	$\overline{}$	11.00		
10:24	0.1	0.5	0.05	14.3	5.6	13.91	270		8.0		3,10		13.	' 	
10:26		0.6	0.05	14.3	5.6		27			22	2.9		14.0		
10:28	0.1	0.7	0.05	14.2	5.6	12.3	27	25	<u>~ & . ·</u>	86	2.5	-;	4.9		
							 							_	
									-					_	
WELL CAPA	CITY (Gallons Pe	er Foot): 1/2*	" = 0.010; 0,7	75" = 0.02: 1	" = 0.04: 1.2	5" ≃ 0.06: 2	" = 0.16	3" =	0.37	1" = 0.65	5" = 1.02	<u>фн</u> =	1.47	12" - 1	
tubing insi	DE DIAL CAPAC	:ITY (Gal./Ft.):	1/8" = 0.000	6, 3/16" =	0.0014 1/4	4" = 0.0026,	5/16	" = 0.00)4, 3	/8" = 0.006	1/2"	= 0.01	0, 5,	8" = 0	.016
rok GING EL	ZOIFMENT COD	ES: B = 8	aller; BP	= Bladder Pur		= Electric SuING DAT		ole Pum	p; (PP = Perista	attic Pumi);	O = Oth	er (Spe	cify)
SAMPLED BY	(PRINT) / AFFI		SAM	PLER(S) SIG		ING DAI	A	SAM	PLING		-27	SAME	PLING	-	
PUMP OR TU	BING	RR_	TUB	INC/	7 - OX	ا سرار	cici p		ATED A			ENDE	D AT:		
DEPTH IN WE	ELL (feet)	18'	MAT	ERIAL CODE					ED: Y		FIL	TER S	ZE:	— µп	1
	NTAMINATION: PLE CONTAINER	PUMP (Y)		AG (LA) (LE	·	OTHER (spec		Y	N	DUPLICAT	E: Y	4	D	UP. IC	
SAMPLE	# CONTAINERS	MATERIAL		PRESERVAT		OTAL VOL	IION	FIN		INTEN ANAL		SAM	PLING	SAME	LE PUMP W RATE
ID CODE		CODE	VOLUME	USED*		IN FIELD (m	ıL)	P		AND/OR N			DDE		er minute)
TMWOOD	ລ	1		4	1 2	000		5.6							50
-000	3	AG	11_	4cL			\dashv	1)	8,770			1	32	75
-008P	<u> </u>	CG	40ML	HLL		20	-	V		8260-	· YOC.				
					_		-	_	_						
	, ,					<u> </u>	+		-						
+							-								
					 		\dashv								
		,			+	_	-					-			
WELL VOLU		REMARKS:								· · · · -					
IATERIAL CO	DDES A	* Samples pla G = Amber Gla	ced on ice sub	sequent to co	PE = Polyet	hylene: Di	D = Del	/propyle	20 5	= Silicone;	T - 7-	flar:	0 - 0	than 100	is-1
AMPLING/PL	JRGING APP =	After Peristalti	Pump; B = B	ailer; BP = BI	adder Pump;	ESP = Electri	c Subm	ersible	Pump: F	P = Perista	Itic Pump	· WW:	O = OI = Water	Level	Meter
OTES: 15	CODES: RFPP:	= Keverse Flor ria_for range (w Peristaltic P of variation of	ump;SM = Str last three con	aw Method (T	ubing Gravity	Drain);	VT = V	acuum '	Trap; 0 = 0	ther (Spe	cify), L	.P ≂ Lab	Prese	rved
n	H: + 0.1 units Te	emperatura:	294 Consider	Conductors	1 1 20/ Die-	-tt-O	- 400/	7 011	-		10 10 1		_		

pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/L, if three DO values than 0.5 mg/L, cinsider values as stabilized Turbidity: 10% for values greater than 5 NTUs, if three turbidity avalues are less than 5 NTUs, consider stbilized, ORP: + 10 mV.

² Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry

^{3 1} gpm = 3,785,4 mL/min

SITE NAME	WMATA North	em Bus Stati	on	ISITE LO	CATION: 46	15 14th Stree	4 MINU		Janouse	TNO	4.44			
					gton D.C. 20		IC LANA		PROJEC			π 410E	>	
WELL NO:	TMW -	2095		SAMPL	E ID:	4. 4 6	0.5		DATE:	. 1	1	7,100		
	[00000	10 10				1W-00				'/	11/	22		
WELL		TUBING	3	WELL S		ING DAT	ATIC DEPTH		PURGE	DI BAD TY	/DE			
DIAMETER			TER (inches)	DEPTH:	19 9steet to	14.95 TO	WATER (feet	17.7	OR BAIL	FR: PP	TE.			
(only fill out	JME PURGE: 1 if app cable)	MELL VOLU	ME = (TOTA 19	L WELL DEPT 、 ク ぐ				WELL	CAPACITY					
			_ = (Di	95	feet -	17.77		x	7.04	gallons	foot	= 0.	09	gallons
(only fill out i	T VOLUME PUR	GE; 1 EQUIP	MENT VOL.	PUMP VOLU	ME + (TUBIN	IG CAPACITY	'X TL MPS flow cell :	BING L	ENGTH) + F	LOW CE	LL VC	LUME	2 700	
INITIAL DUA	P OR TUBING	leini	AL PUMP OF	= g:	alions + (gallon	s/foot X		feet) +			gallons	=	gallons
DEPTH IN V	VELL (feet):	8 FIN	PTH IN WELL	TUBING (feet): (8	PURGI	ED AT: 11:6	5 PURGII		203	TO	DTAL \	OLUME (gallon:	.0	·a
	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	pН		COND	DIS	SOLVED					COLOR/
TIME	PURGED (gallons)	PURGED	RATE	WATER	(standard	TEMP, (°C)	(circle units) µmhos/cm		(YGEN	TURBI (NTU		ORI (mV		ODOR
	(3) (3)	(galions)	(gpm)	(feet)	units)	7/	Or (H2/CIT)	% s	aturation	(,,,,		\		(describe
11:57	0.04	0.04	0.02	17.77	5.69	10.8	620	- 5	.41	33	. 1	20.5	3	dear
11:59	0.034	0.12	0.02	17.77	<i>5.5</i> 7	10.6	620	8	75	_32.	.7	20	./	100 00/
12:01	0.084	0.12	0.02	17.77	5.71	10.4	619	8.	9	30.		20.		1
12:03	0.034	0.836	0.02	17.77	5.74	10.5	620	_	.3	29.		19.	_	T
_						- 271		-		20	0		•	
													-	
								-					\dashv	
		_												
	16													
													_	
WELL CAPA	CITY (Gallons P	er Footh: 1/2*	" = 0 010 · 0 ·	75" = 0.02 1	" = 0.04: 1.7	E" = 0.06 2	F = 0.40 - 9U -	0.07:	415 - 0.05	BII - 4 86				
TUBING INSI	DE DIA. CAPAC	ITY (Gal./Ft.)	1/8" = 0.000	6 3/16" =	0.0014; 1/	4" = 0.0026;	5/16" = 0.0		4" = 0.65; 8 /8" = 0.006		= 0.0		12" = /8" = (
PURGING E	PUIPMENT COD	ES: B = 8	ailer BP	= Bladder Pun			omersible Pun	ıp;	PP = Perist	altic Pum	р	O = Oth		
SAMDI ED BY	(PRINT) / AFFI	LATION	le st	D. 50/0: 010		ING DAT								
	RR	LIATION.	ISAIV	PLER(S) SIG	MAJURES	X	- SAN	IPLING IATED A	TE 1 2 1 0	25		PLING ED AT		
PUMP OR TU DEPTH IN WI		161		ING -			FIELD-FILTER	ED:-Y	N		TER S		μг	n
	NTAMINATION:	PUMP Y		ERIAL CODE:		OTHER (spec	Filtration Equip	oment T	pe: DUPLICAT	E: Y	N		NIO II	D
SAME	PLE CONTAINE					PRESERVAT							UP. II	
SAMPLE	# CONTAINERS	MATERIAL	VOLUME	PRESERVAT	VE T	OTAL VOL	FIN	AL	INTEN ANAL					PLE PUMP DW RATE
ID CODE		CODE		USED*	ADDE	IN FIELD (m	L) pl		AND/OR N	METHOD		ODE		per minute)
7710-009	2	AG	14	none	\$ 0	000	5,	74	827		_	20		
	3	CG	90 mL		- - 5 2,	112	1		5 VO		7 4	PP	97	<u> </u>
		<u>CG</u>	ווועוטוי	HC1	- (*	10	₩.		8260	W.	0	<i>b</i>		
							_							
, , ,														
												İ		
												\neg		
WELL VOLU		REMARKS:	. 64											
ATERIAL CO	44900	* Samples plad G ≠ Amber Gla		sequent to co	PE = Polyet	hylene Di	Polypropyle	200 5	= Silicone;	7.7	M	0.0	u : /*	2
AMPLING/PU	JRGING APP =	After Peristaltic	Pump; B = E	Bailer; BP = Bla	adder Pump:	ESP = Electric	Submersible	Pumo: I	P = Perista	Itic Pumr	WIN	= \Mater	Laural	Specify) Meter
QUIPMENT (CODES: RFPP	= Reverse Flo	w Peristaltic P	ump:SM = Str	aw Method (T	ubing Gravity	Drain): VT = \	/acumm	Trap; 0 = 0	ther (Spe	cify); L	P = Lab	Pres	arved
P	H: <u>+</u> 0,1 units To	emperature: 🛓	3% Specific	Conductance	e: <u>+</u> 3% Diss	olved Oxyge	n: 10% for valu	.es area	ter than 0.5	ma/L if t	hree Г	O value	5	
le	ess than 0.5 mg/	L, cinsider val	ues as stabiliz	ed Turbidity:	10% for vlaue	s greater tha	n 5 NTUs, if th	ree turbi	dity avalues	are less	than 5	NTUs	_	

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

3 1 gpm = 3,785.4 mL/min

consider stblized; ORP; + 10 mV.

SITE NAME	WMATA North	ern Bus Stati	on	SITE LO	CATION: 46	15 14th Stree	t NW	P	ROJEC	T NO.: B	44025	7	
		<u> </u>			gton D.C. 20	011				-	214	1100	
WELL NO:	TMW-0	090		SAMPL	E ID:	MW-00	191	D	ATE		to L	2.0	
	7 1971	0110				ING DAT					11	<u>مي</u>	
WELL		TUBING	3	WELL S	CREEN INTE		ATIC DEPTH	IP.	ÚRGE F	UMP TY	PE		
DIAMETER	(inches)	DIAME"	ER (inches)	DEPTH	feet to	то	WATER (feet)	. 0	R BAILE	R; PP			
(only fill out	if applicable)	I MELL VOLU							_		#A	_ 1/	
		GE: 1 EQUIP	MENT VOL. =	PUMP VOLU	MÉ + (TUBIN	G CAPACITY	X TÜ	BING LENG	TH) + F	LOW CE	LL VO	LUME	
only fill out	if applicable)		,	= 0:	NC	TE: YSI 556I	MPS flow cell v	olume = 500) mL = 0),13 gallo	ons (1	gallon = 3	
	AP OR TUBING	Fin		TUBING	PURGIN			lG	1661) +		OTAL V		= gallons
DEPTH IN V			PTH IN WELL	(feet): 20	INITIATI	ED AT:				PL	JRGEC	(gallons)):
TIME	VOLUME PURGED (gallons)	VOLUME PURGED	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	(circle units) <u>umhos/cm</u>	OXYGI mg/L	EN /				ODOR
-	m 04		0.02	2115	600	13 0%				2 2	7	~ -	
					_								
				-	_								
	0,00		0.00	21.1.3	0.60	7 0 7.07	707	O <u>c</u>	0	0//_	7	0.	6
									\dashv				_
								 -	\rightarrow	·			
		_									-	-	
					-				\neg		\neg		
									\neg				
WELL CAPA	CITY (Gallons P	er Foot): 1/2	* = 0.010; 0.3	75" = 0.02; 1			" = 0.16; 3" =	0.37; 4" =	0.65; 5	5" = 1,02	2, 6" =	= 1.47; 1	2" = 5.88
	ETER (Inches) DAMETER (Inches) DEPTH FINTO COPTH TOWATER (Ised): OR BALER P												
SAMPLED B			SAM	IPLER(S)-SIG		A DAI		PLING			SAME	PLING	
PUMP OR TI			ITUR	ING	1mg	2					ENDE	D AT	
DEPTH IN W	ELL (feet):	20			HDPE				N	FIL	TER S	IZE	µm
IELD DECO	NTAMINATION:	PUMP Y	N TUBI	NG Y N (re	placed) (OTHER (spec	ify) Y		PLICAT	E Y	N	DI	JP. ID:
	PLE CONTAINE						ION		INTEN	DED	SAM	PLING	SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS		VOLUME								EQUI	PMENT	FLOW RATE
mil-of	n	16	14	mbo e	1 5.	500		6/3				20	1G
11100 Ce								_			PKI	7	10
9		Δ/		779			5.6	0 52	00	VUL		-	
					-							-	
	,				-	.					_		
							+	_			_		
WELL VOL	JMES:			<u>.</u>									
						hulano: Dr	D = Daluman '-	0 - 7	Waa	T =			10 11 -
AMPLING/P	URGING APP =	After Peristalti	c Pump; B = E	lailer: BP = Bl	adder Pump;	ESP = Electric	Submersible	Pump: PP =	Peristal	tic Pumi	WW.	≃ Water I	evel Meter
QUIPMENT	CODES: RFPP	= Reverse Flo	w Peristaltic P	$ump_iSM = Str$	aw Method (T	ubing Gravity	Drain): VT = V	acuum Trac	0 = 0	ther (Spe	cify), L	P = Lab	Preserved
OTES: 1	Stabilization Unite	ena for range	or variation of	iast three con:	secutive read	lings per EPA	EQASOP-GW	4					

- pH: ± 0.1 units Temperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/L, if three DO values less than 0.5 mg/L, cinsider values as stabilized Turbidity: 10% for viaues greater than 5 NTUs, if three turbidity availues are less than 5 NTUs, consider stbilized; ORP: + 10 mV.
- 2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry,
- 3 1 gpm = 3,785 4 mL/min

M

GROUNDWATER SAMPLING LOG

SITE NAME	: WMATA North	em Bus Stati	on		CATION: 46	15 14th Stree		LO	PROJE	CT NO.: 6		4100	
WELL NO:	T-0.0	1 - 0.11		SAMPLE	ID:		Ţ.		DATE:	1	$\overline{}$		
	ListA	1-011			_	1W-01				1/11	10	2	
WELL		TUBING	3 .187	~ WELL ST	PURG CREEN INTE	ING DAT	ATIC DEPTH		Inunce	PUMP TY			
DIAMETER		DIAME	TER (inches):	DEPTH:	3. Gafeet to	3 68 10	WATER (feet)	8.7	OR BAIL	ER PP	rre		
(only fill out	IME PURGE: 1 if applicable)	WELL VOLU		L WELL DEPTI	- STATE	C DEPTH TO	WATER) X	WELL	CAPACITY			0.	
EQUIPMENT	VOLUME PUR	GE: 1 EQUIP	= (/	3.68 1	eet – d	S. 92	feet) >		. 04 ENGTH) + i	gallons	foot	= 0,1	7 gallons
(only fill out it	f applicable)				NO	TE: YSI 556	MPS flow cell v	olume =	500 mL =	0.13 gallo	ons (1	gallon = 3,7	85 mL)
INITIAL PUM	P OR TUBING		IAL PUMP OR	TUBING	PURGIN	IG 14	S/foot X	IG /	feet) -	TC	TAL V	gallons =	gallons
DEPTH IN W	/ELL (feet):		PTH IN WELL	(feet): VI	INITIATE	ED AT CO	ENDED	AT:	2:25) (gallons):	
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND (circle units) µmhos/cm	C) n	SOLVED (YGEN ng/L / aturation	TURBI (NT		ORP (mV)	COLOR/ ODOR (describe)
14:15	0.16	0.16	0.08	8.92	6.51	13.59	4		. 27	51	-	- 21	
14.17	0:012	150mm		3.00			2528	_		56.		-21.	-
19, 19	0.08		0.06		6.49	13.35			.03		. 0		Strago
		.36	0.04	8.92	6.48	13.25	2372		93	39		28 0	colore
14:21	0.08	.44	0.04	8.92	6.50	13.55		0.	76	38		-31.4	
14.23	0.09	18	0.02	8.92	6.46		2251		73	33	_	-83.9	
19:25	0.04	52	0.02	3.9.2	6.51	12.94°	2137	0.	65	38.	5	-34.4	
-													
								_					
	CITY (Gallons Po DE DIA. CAPAC		" = 0.010; 0.1	75" = 0.02; 1"	= 0 04 1.2								
	UIPMENT COD			6; 3/16" = 0 = Bladder Pum		4" = 0 0026; = Electric Sut	5/16" = 0.00 mersible Pum		1/8" = 0 006 PP = Perist		= 0.0	0 = Other (= 0.016 Specify)
						ING DAT					-	o - oaioi (i	openiy/
SAMPLED BY	(PRINT) / AFFI		SAM	IPLER(S) SIGN	/			PLING	141			PLING	
PUMP OR TU	BING	PR.	TUB		11	~~	INITI FIELD-FILTER	ATED A				ED AT:	
DEPTH IN WE		11	MAT	ENEL CODE			Filtration Equip			- FIL	IERS	126	μm
	NTAMINATION PLE CONTAINER	PUMP (Y)		NG Y N (rep		OTHER (spec		N N	DUPLICA	TE: Y	N	DUP	. ID:
SAMPLE		MATERIAL		PRESERVATI\		PRESERVAT	ION FINA	A1		NDED			MPLE PUMP
ID CODE	# CONTAINERS	CODE	VOLUME	USED*	T .	IN FIELD (m			ANAL AND/OR			- 1	LOW RATE L per minute)

TMW-OII	3	AG	14	none		000	6.9		8270	25YOC	PI	RPP 3	BOOML
4	3	CG	40M4	_4CL_		20	6.6	1	8260	-voc		V	
												_	
													_
WELL VOLU	MES	REMARKS		sequent to co									
MATERIAL CO	DES A	* Samples pla G = Amber Gla	ced on ice sub	sequent to collinear Glass,	lection PE = Polyet	hviene Pr	P = Polypropyle	ne s	= Silicone	, T = Te	office.	0-04	(Cassifa)
SAMPLING/PL	JRGING APP =	After Peristalti	c Pump; B = E	Bailer, BP = Bla	dder Pump	ESP = Electric	Submersible	Pump: F	P = Perist	altic Pumi	MW	O = Other = Water Lev	ml Meter
GOTHWENT	tabilization Crite	= Reverse Fio	w Peristaltic P	ump SM = Stra	w Method (T	ubing Gravity	Drain) VT = V	acuum	Trap O = 0	Other (Spe	ecify); I	LP = Lab Pro	eserved
P	H: ± 0 1 units To	emperature:	± 3% Specific	Conductance	: ± 3% Diss	olved Oxyge	n: 10% for valu	≃ Ies grea	ter than 0 5	5 mg/L; if	three E	OO values	

consider stbilized ORP: +10 mV

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash. DI water final rinse, & air dry

less than 0.5 mg/L, cinsider values as stabilized Turbidity: 10% for viaues greater than 5 NTUs, if three turbidity avalues are less than 5 NTUs,

3 1 gpm = 3,785 4 mL/min

1.5	IADIATA M	40		GROU	NDWAT	ER SA	MPLING	G LOG				
-	WMATA Nor	thern Bus Si	ation	[3]	TE LOCATION:	4615 14th Stra	et NW		ECT NO	: 8440E317		
0:	TM	W - C	nas	SA	MOLE ID:				_	0111	00	
1		11	100		DIID	MW-	DIS S	3	- 1	17/10	2	,
FTFR	(inches)	, TUB		1875 WE	LL SCREEN IN	TERVAL IS	TATIC OCCUT	Tellec	E PUMP	Type:		
L VOL	JME PURGE:	1 WELL VO	ETER (inch	res): DEI OTAL WELL D	PTH: 19. feet	to 9.1 TO	WATER (fee	PURG OR BA WELL CAPACIT	ILER: PE	P		
				191		4						
(UIPMENT	T VOLUME PUI f applicable)	RGE: 1 EQU	IPMENT VO	DL. = PUMP V	OLUME + (TUB	ING CAPACITY	feet)	X 6.04 JBING LENGTH) +		ns/foot =		
	IP OR TUBING	Te le		-	gallons + (IOTE: YSI 556	MPS flow cell	volume = 500 mL :	= 0.13 ga	allons (1 gallo	on = 3.78	35 mL)
DEPTH IN W	ELL (feet):	1/1	EPTH IN W	OR TUBING	PURG	TED AT: 16:	PURCI	NG		TOTAL VOLL	ons =	gallor
TIME	VOLUME PURGED	VOLUME	PURG	E DEPTH			COND.	DISSOLVED	} 	PURGED (ga	lons):	
111412	(galions)	PURGE[(gallons)	RATE	1	R (standard	TEMP. (°C)	(circle units) µmhos/cm	OXYGEN Fig/LD			ORP	COF
16:30	0.15	0.18	0.09	1117		-	€ uS/cm	% saturation	1 (1)	TUs)	(mV)	(descr
16:32	6.18	0-36		70.7		11.28		1.69	42	.5 -	20.5	
16.34	0, 18	0.54	0.0			11.8	1369	1.10	17	0 7	25.8	
16:36	0.18	0.72					1363	-85	19	.0 -2	8.1	
		10. 18	1	11 0,7	7.13	11.42"	1355	.68	16	1	9.6	-
				- 								
			 			 						
			 	+	+							
				 								
WELL CAPACI	TY (Gallons Pe	r Foot): 1/2	" = 0 010;	0.75" = 0.02;	1" = 0.04: 1.2	25" = 0.08: 2"	= 0.16 - 38 -	0.37 4" = 0.65				
URGING EQU	IPMENT COD	ITY (Gal./Ft.)	1/8" = 0.0 Bailer: B	006; 3/16" P = Bladder P				4. 3/6" = 0.006	1/2	" = 0.010	12" = . 5/8" = 0	5.88
*****						= Electric Subr	mersible Pump	PP = Perista	iltic Pum		ther (Spe	ecify)
	PRINT) / AFFIL	IATION	SA	MPLER(S) SI	GNATURES:	11/2	SAMP	LING		SAMPLING		
UMP OR TUBI EPTH IN WEL	NG		TU	BING	1/1	EX IF	INITIA	TED AT: 44		ENDED AT:		
ELD DECONT	AMINATION:	PUMP (F)	N TUI	ATERIAL COD		Fi	iltration Equipm	nent Type:		TER SIZE: _	μπ	1
	E CONTAINER	SPECIFICAT	ION	1		OTHER (specif) PRESERVATION		N DUPLICAT	E: Y	(N)	DUP. ID	
SAMPLE ID CODE #	CONTAINERS	MATERIAL CODE	VOLUME	PRESERVA*	TIVE TO	TAL VOL	FINAL	INTENI ANALY		SAMPLING		LE PUM
Mur				USED	ADDED	IN FIELD (mL)	pH	AND/OR M		EQUIPMENT CODE		W RATE er minute
MWS	2	46	11	None	2	2,000	17.13	6274		,		
	3	CG	Tom	HCL		26	7.13				3	50M
							1	0200-	700	V	 \	
											 	
							-		-		 	
ÆLL VOLUME	e											
	59al 1.5	MARKS: Samples plac	ed on ice su	bsequent to co								
TERIAL CODE						lene; PP =	Polypronylene	S - Chieses	+			
JIPMENT COD	ES: RFPP = F	er Penstaltic Reverse Flow	Pump B = Peristaltic P	Bailer; BP = Bi Pump:SM = Str	adder Pump; Es	SP = Electric S	ubmersible Pu	S = Silicone; mp PP = Peristalti uum Trap; O = Oth	r = ren c Pump;	Oπ; O = O WM ≈ Water	ther (Spe	ecify)
Juli	Hadron Citteria	IOC CODOS OF	remeinting of	14 AL					er (Snoc	16 A . I D . I . L	Ph	red
iess t	han 0,5 mg/L,	cinsider value	ovo opecific es as stabiliz	: Conductance ed Turbidity:	e: ± 3% Dissol	ved Oxygen: 1	0% for values	greater than 0.5 m turbidity avalues a	g/L, if the	ree DO value	s	
CONSI	der stollized O	RP: + 10 m\	/	•		Branch along	(4) OS, II (III/BB	turbidity avalues a	re less th	nan 5 NTUs,		
3 1 gpm	1 = 3,785.4 mL	min	iures include	es DI water rin	se, Luminox sol	ution wash, DI	water final rins	e, & air dry				

SITE NAME	: WMATA North	ern Bus Statio	na			15 14th Stree	t NW		PROJEC	T NO.: A			
WELL NO:				SAMPLI	gton D.C. 20 E ID:				DATE:			4100	
	TMN	- 018	X D				OISD			l	14	/200	
WELL		THERMS	-	- Livery	PURG	ING DAT						-	
DIAMETER	(inches): 1	DIAMET	TER (inches):	S WELL S	254 Deet to	2045 TO	ATIC DEPTH WATER (feet):	1155	PURGE OR BAIL	ED DD	PE		
(only fill out	if applicable)		= (2	5.45	feet –	11.85	feet) X				lfoot.	5 ہے =	gallons
(only fill out i	T VOLUME PUR if applicable)	GE: 1 EQUIP	MENT VOL.	PUMP VOLU	ME + (TUBIN NO	IG CAPACITY TE: YSI 556!	X TUE	BING LEN	IGTH) + F 500 mL =	LOW CE 0.13 gallo	LL VO	LUME gallon = ;	3,785 mL)
INITIAL PUN DEPTH IN V	IP OR TUBING VELL (feet):		AL PUMP OF PTH IN WELL	TUBING	PURGIN	lG	PURGINI DO ENDED		16:0	TC		gallons /OLUME) (gallons)	
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP.	COND (circle units) µmhos/cm	OXY (mg	GEN	TURBII (NTL	DITY	ORP (mV)	COLOR/
16:02	0.18	0.18	0.09	11.85	6.91	12.08	ο(μ\$/cm) 1515		ration 75	7(6	-25	
16:04	0.18	036	0.09	11.85	6.89	12.03	1505		39	7		-29.	
16:06		0,54	0.09	11.85		11.90	1470	4.	17	72	3	-38	i
16:08	0.18	0.73	0.09	11.85	6.82	11.79	1469	3.	952	74	6	-38	9
								_					
										-			
WELL CAPA TUBING INSI	CITY (Gallons Pe	er Foot); 1/2' ITY (Gal./Ft.);	" = 0,010; 0. 1/8" = 0.000	75" = 0.02; 1' 06: 3/16" = 1		.5" = 0.06; 2' 4" = 0.0026;	' = 0.16; 3" = 5/16" = 0.00		= 0.65; " = 0.006		= 0.0		2" = 5.88 3" = 0.016
PURGING EC	QUIPMENT COD	ES: B=B		= Bladder Pun	np; ESP	= Electric Sut	mersible Pump		Perist				r (Specify)
SAMPLED BY	Y (PRINT) / AFFI	LIATION	ISAN	PLER(S) SIG		ING DAT		PLING			Icard	DI INIÓ	
		RR		10	2	4 PR	3 (ATED AT	16:	10		PLING ED AT:	
PUMP OR TU DEPTH IN WI	-	181		ERIAL CODE	UNDE		FIELD-FILTER		(N)	FIL	TER S	IZE:	μm
	NTAMINATION:	PUMP		NG (Y) N (re		OTHER (spec	Filtration Equip		e: DUPLICAT	ΓΕ: Υ	(N) DI	JP. ID:
	PLE CONTAINER	R SPECIFICAT	ION		SAMPLE	PRESERVAT	ION		INTEN				SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED*		OTAL VOL D IN FIELD (m	L) FINA		ANAL'	YSIS	EQUI	PMENT	FLOW RATE (ml. per minute)
-WMT	_2	_A4	12	MNC	Ó	2,000	6.8	2	5276-	SICL		PP	350ML
	3	6	40ML	HCL		120	6.50		3260-		_	1	V
					-								
-					-						_		
					-			-					
					- 		 	\rightarrow	_				
WELL VOLU	IMES: ・チン	REMARKS:											
ATERIAL CO	DDES: A	G = Amber Gla	195; CG = C	bsequent to co lear Glass;	PE = Polyet	hylene; PF	P = Polypropyle	ne: S=	Silicone;	T = Te	eflon:	O = Oth	ner (Specify)
AMPLING/PI	URGING APP = /	After Peristaltic	Pump; B = E	Baller, BP = Bla	adder Pump;	ESP = Electric	Submersible F	Pump: PP	E Perista	Itic Pumr	- WAR	= Water I	evel Meter
OTES: 15	CODES: RFPP :	ria for rance o	w Peristaltic P of variation of	ump SM = Str	aw Method (T	ubing Gravity	Drain) VT = Va	acuum Tr	ap: O = 0	ther (Spe	cify); L	LP = Lab I	Preserved
F	H: ± 0.1 units Te	emperature: ±	3% Specific	Conductance	: + 3% Diss	olved Oxyger	1: 10% for value	es areate	r than 0,5	mg/L, if t	three C	O values	
li C	ess than 0,5 mg/ consider stbilized	L, cinsider val ; ORP: +10 n	ues as stabiliz nV.	ed Turbidity:	10% for viaue	s greater that	n 5 NTUs, if thre	ee turbidii	ty avalues	are less	than 5	NTUs.	

3 1 gpm = 3,785.4 mi/min

SITE NAME	: WMAIA NORB	em Bus Statio	on		DCATION: 46: ogton D.C. 20	15 14th Stree nt1	t NW		PROJEC	T NO.: 🗗				
WELL NO:		4 10 4		SAMPL	E ID:				DATE:)	1100		
	IMM-	0135	خ			M-0					3	199)	
WELL	f 3*	ITUDING	016	- hart f	PURG	ING DAT						ii.		
DIAMETER	(inches)	TUBING	TER (inches)	DEPTH	CREEN INTE	< 41 TO	ATIC DEPTH WATER (feet)	54	OP BAIL	PUMP TY	PE			
WELL VOL	JME PURGE: 1	WELL VOLU	ME = (TOTAL	WELL DEPT	H - STATI	C DEPTH TO	WATER) X	WELL	CAPACITY	440.11				
(only fill out	if applicable)		= (/	5.81	1001 - 5	.46	feet))	, ^	.64	!!!	44	_ 4	•	
EQUIPMEN	T VOLUME PUR	GE: 1 EQUIP	MENT VOL. =	PUMP VOLU	ME + (TUBIN	IG CÁPACITY	X TU	BING LE	NGTH) + F	LOW CE	LL VO	= _4 ;		llons
(only fill out	if applicable)			= 0:	NC allons + (TE: YSI 556	MPS flow cell v s/foot X	olume =	500 mL = feet) +		ns (1	gallon = : gallons		
	P OR TUBING	FIN	AL PUMP OR	TUBING	PURGIN	IG	PURGIN			TC		OLUME		llons
DEPTH IN V		/ D' DE		(feet): 10	INITIAT	ED AT: 14.	S6 ENDED		5:06	PL	IRGE) (gailons):	
TIME	VOLUME PURGED	VOLUME	PURGE RATE	DEPTH TO WATER	pH (etopdoret	TEMP.	(circle units)		OLVED YGEN	TURBI	DITY	ORP	, ,	OLOR/
"""	(galions)	PURGED (galions)	(gpm)	(feet)	(standard units)	(°C)	μmhos/cm	@	ig/LT	(NTL	ls)	(mV)	, 0	DOR escribe)
14:58	110	1 .	0.06	<i>5 i</i>	7.55	u or o	OC INSIGH?		ituration	20		-1		
		118	0.09	5.4	i	11.80	711		48	20,		-1. 2		
15:00		-36	0.09		7.56	11.3°	711	.9	6	9.5	7	-11-3	$S \mid A$	light
15:02	0.18	1,44	0.09	5.4	7.49	11.59°	712	- (04	4.0) [-21.	8 0	DOR
15.64	0.18	.62	0.09	5.1	7.47	11.6	714	5	4	2.2	8	-24.	.6	
15:06	0.18	0.90	0.09	5.4	7.47	11.67°	714		45	1.5		-24.		
		,								-				
													_	
		-												
													la:	
WELL CADA	CiTY (Callons P.	nc Engt\: 1/2	" = 0.010: 0:	75" - 0.00: 4	11 - 0.04- 4.5	F11 - 0.00	1 - 0 40 011	0.53						
TUBING INS	CITY (Gallons P	ITY (Gal./Ft.)	1/8" = 0.000	6; 3/16" =	0.0014 1/	4" = 0.0026	" = 0.16; 3" = 5/16" = 0.0		1" = 0.65; /8" = 0.006		= 0.0		2" = 5,88 8" = 0.01	
PURGING E	QUIPMENT COD	ES: B = £	Bailer, BP	= Bladder Pur	mp; ESP	= Electric Sul	bmersible Purr		P = Perist				r (Specify	
ALLEY CO. D.			9		SAMPL	ING DAT								
SAMPLED	Y (PRINT) / AFFI	LIATION:	SAN	PLER(S) SIO	NATURES:	S) Note.		IPLING IATED A	T. 12	:09		PLING ED AT:		
PUMP OR TU	JBING	1		ING	7		FIELD-FILTER		(N)			IZE:	иm	
DEPTH IN W	ELL (feet): NTAMINATION:	PUMP (Y)		ERIAL CODE			Filtration Equip				_	80		100
	PLE CONTAINE			NG(Y) N (re		OTHER (spec		/ N	DUPLICA:	TE: Y	N) DI	UP. ID:	
SAMPLE		MATERIAL.		PRESERVAT		OTAL VOL	FIN	AI	INTEN				SAMPLE	
ID CODE	# CONTAINERS	CODE	VOLUME	USED.		IN FIELD (m			ANAL AND/OR I			PMENT ODE	FLOW I (mL per r	
TMW- 0135	2	4.6	L			_		A:-					···-	,
0135		A6	12	None		2,000	7.	47	827	0510	P	RPP	<u>35</u>	OML
	3	CG	40ML	HCL		120	7.0	47	8260	- VOC		V		
							1							
						•		ì						
							-					-		
					-							\dashv		
5 WELL VÖLI	IMES:	REMARKS:												
	08991	* Samples pla	ced on ice sul	bsequent to co	ollection									
MATERIAL C	ODES: A	.G = Amber Gl	ass; CG = C	Clear Glass;	PE = Polyet	hylene; Pl	P = Polypropyle	ene; S	= Silicone	T = Te	eflon;	O = Ot	her (Spec	:ify)
EQUIPMENT	URGING APP = CODES: RFPP	Anter Peristalti	ic Pump; B = 8 w Peristaltic F	daller; BP = Bl Pump:SM = Str	adder Pump; raw Method /1	ESP = Electric Fubing Gravity	C Submersible	Pump; P	P = Perista	attic Pump	; WM	= Water I	Level Met	er
NOTES: 1	Stabilization Crite	eria for range	of variation of	last three con	secutive_read	dings per EPA	EQASOP-GW	14						
	pH; \pm 0.1 units T less than 0.5 mg.	emperature: ; /L. cinsider val	± 3% Specific lues as stabili:	Conductanc	e: ± 3% Disa 10% for view	colved Oxyge	n; 10% for value if the	ies grea	ter than 0.5	mg/L, if t	three C	O values	3	
		777				8		(41)	withing	1033	and the	14100		

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

3 1 gpm = 3,785.4 mL/min

consider stblized; ORP: + 10 mV.

SITE NAME	: WMATA North	orn Due Stati		ICITÉ LO	CATION, 46	15 14th Stree			1555					
DITE WARE	THINKIN HUIGH	ALLI DUS SIALI	OII				I NVV		PROJEC	T NO.: 5				
WELL NO:						011			DATE:			410E		
	TMY	1-01	30	OAIII EE	T	4W- (OSIC		DATE:	- 1	18)aa	2	
									W-		NAS-	1		
WELL	(inches):		0.15	75 WELL S	CRÉEN INTE	RVAL ST	ATIC DEPTH	. 0.2	PURGE	PUMP TY	PE			
			ME = (TOTA	L WELL DEPT	H - STATI	C DEPTH TO	WATER (feet	WELL	OPACITY	ER: PP				
(only fill out	if applicable)						MATERY A	AACEE	CAFACIII					
COMBREA	TVOLUME DUE		= (0	21.2	feet - 8	<u> </u>				gallons/	foot	= ,5		gailons
(only fill out i	if applicable)	GE: 1 EQUIP	MENT VOL.	PUMP VOLU	ME + (TUBIN	IG CAPACITY	X TI	JBING LE	ENGTH) + F	LOW CE	LL VO	LUME		
					ıllons + (gallon:	s/foot X	ADMINE ~			ins (1			
					PURGIN	IG	PURGI	NG	- 4			OLUME		
DEL ILI III A						EDAI: [3]				ノ PL	IRGED) (gallons	3):	
TIME	_	VOLUME			•	TEMP.	1			TURBU	DITY	l ner	.	COLOR/
I IIIIL	1	PURGED				(°C)	μmhos/cm	1 -		ľ			- 1	ODOR
· ·		(galions)	(86-11)				of µS/cm	% sa	sturation					(describe)
		0.18	0.09	8.35	7.42	13.39°	8.99	14	18.8	100	+	6.	7	
15:27	0.18	0.26	0.09	a,35	7.31	13.35	974	1		100	>+-		F	> Might
15:29	0.18	.54	0.09	935		1							$\overline{}$	
						0.2		-		35	7			_ wa
							_		<u> </u>	_37	يار			
15:36			0.09	8035	7.11	13.27	1027	1	38		Dec !	-44	9	
15:38	0.18	1.35	0.09	8.35	7.0%	13.450	1024		42	16	2			
15:40	TUBING D. 1675 WELL SCREEN INTERNAL STATIC DEPTH PURGED PUMP TYPE DIAMETER (inches) DIAMETER													
		1.00	0.07	0.00	7,00	19.10	KKT	6	10	77.0	<u> </u>	-45	-4	
													_	
								L						
					- 1							<u>_</u>	\neg	
WELL CAPA	CITY (Gallons Po	er Foot): 1/2	" = 0.010; 0.	75" = 0.02; 1"	' = 0.04; 1.2	5" = 0.06; 2	' = 0.16; 3" :	= 0.37; 4	t" = 0.65;	5" = 1.02	; 6"=	- 1.47;	12" =	5.88
TUBING INSI	IDE DIA, CAPAC	ITY (Gal./Ft.):												
i ortonia Ec	Remotes													
SAMPLED BY	/ (PRINT) / AEEI	LATION	ICAN			ING DAI			0 91					
0	TER (Inches)													
													0.0	
DEPTH IN WI	ELL (feet):		MAT	ERIAL CODE:				pment Ty			- mets		P***	
				NG(Y) N (rep				YN	DUPLICAT	E: Y	(1)	D	UP. 10):
	PLE CONTAINE								INTEN	DED	SAM	PLING	SAME	PLE PUMP
ID CODE	# CONTAINERS		VOLUME								EQUI	PMENT	FLO	W RATE
		5552		0000	ADDED	A LICED (M	L) P	7	AND/OR N	METHOD	CC	DDE	(mL p	er minute)
TMYST	ລ	100	17	M/A a		1	-	7 20 4	0	t.	0.0		_	1
UISID								1,06	02-10-	SVOC	YV			
	3	<u> </u>	HUML	HCL		20	7	06	8260-	-VOC				V
				٠	_	*								
	-				<u> </u>									
												$\neg \uparrow$		$\overline{}$
	- com (1													
		G = Amber Gla	iss; CG = C	lear Glass;	PE = Polyeti	hylene; PF	= Polypropyl	ene; S	= Silicone;	T = Te	flon;	O = Ot	her (S	pecify)
QUIPMENT (CODES: RFPP:	- Reverse Fio	v rump; u = 6 v Peristaltic P	ump:SM = Stee	idder Pump; i aw Method /T	ESP = Electric Jubina Gravity	Submersible	Pump; P	'P = Perista	Itic Pump	; WM	= Water	Level	Meter
MOLES: 13	stabilization Crite	na for range o	of variation of	last three cons	ecutive read	inas per EPA	EQASOP-GV	14						IAGG
P	$H: \pm 0.1$ units To	emperature: ±	3% Specific	Conductance	: ± 3% Disse	olved Oxyger	1: 10% for val	ues great	er than 0,5	mg/L, if t	hree D	O value:	s	
te.	sas than U.5 mg/	L, cinsider vali	ues as stabiliz	ed Turbidity:	10% for vlaue	s greater than	15 NTUs, if th	ree turbi	dity avalues	are less	than 5	NTUs,		

consider stbilized; ORP; + 10 mV.

1000

² Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

^{3 1} gpm = 3,785,4 mL/min

CITE MARKE	IAMAATA MAAL	non Bren Chest		Torrero	017/01/ 15	40.441.0.			1			-		
SHE NAME	: WMATA North	em Bus Stati	on			15 14th Stree	t NW		PROJEC					
WELL NO:				SAMPLE	gton D.C. 20				DATE:			4100		
	TMh	1-014	.5			MW-	SAS		DATE:	1	14	laa)	
					PURG	ING DAT	ΓΑ				1	1		
WELL.	Contract 1 P	TUBINO		75 WELL S	CREEN INTE	RVAL ST.	ATIC DEPT	1	PURGE	PUMP TY	'PË			
WELL VOLU	(Inches): 1 JME PURGE: 1	WELL VOLU	TER (inches)	AL WELL DEPTI	H - STATI	4,95 TO	WATER (fe	et):/0,5	S OR BAIL	ER: PP				
	if applicable)			4.695			WATER	V 44EFI						
FOLIDMENT	T VOLUME PUR	CE. 1 EOUID	= ('	T. 67%	feet - /	D. 55	feet)	X	0.64		foot	= 6,1	8	allons
(only fill out i		OE. I EQUIP	MENI VOL.	- FUNIF VOLUI		TE: YSI 556		l using (Il volume	ENGTH) + F	LOW CE 0.13 gallo	LL VO	LUME gallon = :	3.785 m	ot)
INITIAL PLIM	IP OR TUBING	FIN	IAL PUMP O		llons + (gallon	s/foot X		feet) +			gallons		allons
DEPTH IN W			PTH IN WEL		PURGIN	EDAT 4:	38 ENDE	DAT	14:46			OLUME (gallons		
	VOLUME	CUMUL.	PURGE	DEPTH TO	Hq		COND	DIS	SOLVED	ļ. <u>, , , , , , , , , , , , , , , , , , ,</u>	MOLL	- (genons		
TIME	PURGED	PURGED	RATE	WATER	(standard	TEMP.	(circle unit		XYGEN	TURBI		ORP		COLOR/ ODOR
	(gallons)	(gallons)	(gpm)	(feet)	units)	(°C)	μmhos/cr		mg/L/ saturation	(NTL	(2)	(mV)	(describe)
H:40	0.12	0.12	0.06	10.55	7.35	11.28	880		.54	1.4	77	-/6	2 4	
14:42	0,12	.24	0.06		7.32	10.68	800			1.2		- 14		
14:44	_	_						\rightarrow	36					
		.36	0.06		730	10.64	880	_ 4	28 2			-15,		
14:46	0.12	.48	0.06	10.55	7.27	10-61	850	1/	18	1.4	X	-15.	7	
										-				
													_	
								-					-	
								-						
WELL CADA	CITY (Gallons Po	0. Footh: 1/2	" = 0.010; 6	7.75" - 0.00: 41		ED - 0 00 0			411					
TUBING INS	IDE DIA. CAPAC	ITY (Gal /Ft.):	1/8" = 0.00	006; 3/16" = 0		.5" = 0.06; 2 4" = 0.0026;	5/16" = 0.16; 3"		4" = 0.65; 3/8" = 0.006		: 6" : '= 0.0		2" = 5 8" = 0.0	
	QUIPMENT COD			P = Bladder Pum		= Electric Sul			PP = Perista			O = Othe		
					SAMPL	ING DAT	A							
SAMPLED BY	Y (PRINT) / AFFI	LIATION	SA	MPLER(S) SIG	ATURES:	16_		AMPLING	14.	14		PLING		
PUMP OR TU	JBING	NK.	TU	BING	gra	ا محد	FIELD-FILT	TIATED		48	ENDE	ED AT:		_
DEPTH IN W		12	MA	TERIAL CODE			Filtration Eq			FIL	IERS	145	_ μm	
	NTAMINATION:			SING (Y) N (rep		OTHER (spec	_	Y N	DUPLICAT	E Y	Q	DI	UP. ID:	
	PLE CONTAINE		TION			PRESERVAT			INTEN	DED	SAM	PLING	SAMPL	E PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIV		OTAL VOL) IN FIELD (m		INAL pH	ANAL'			PMENT		
						7 HT 1000 (III	-/	pri	AND/OR N	METHOD	C	ODE	(mL pe	r minute)
"TMW-CM4	2	AG	12	nune	1 5	2,000	7	.27	8270	SILIY.	Pr	PP	2	50NL
	3	CG	40ML	HCL		120								JUNG
		<u> </u>	7011	702		1000	7	27	8260	VOC	PL	-fP		
-						*					-	-		
										_				
				1										
									 	_		\rightarrow		
WELL VOLU	JMES: A	REMARKŠ:			!									
	BROW			ubsequent to col										
MATERIAL CI	URGING APP = .	G = Amber Gla After Peristalti		Clear Glass	PE = Polyet	hylene; PI	P = Polyprop	ylene;	S = Silicone;	T = Te	flon	O = Ot	her (Sp	ecify)
EQUIPMENT	CODES: RFPP:	= Reverse Flo	w Peristaltic	Pump; SM = Stra	aw Method (1	ubina Gravity	Drain): VT	= Vасиил	rr≃Perista i Trap: O = O	ittic Pump ther (See	o; WM ecitor i	= Water I LP = Lah	.evel M Presen	leter ved
NOTES: 15	Stabilization Crite	eria for range	of variation of	of last three cons	ecutive read	tings per EPA	EQASOP-0	W4						
Į.	pH: \pm 0.1 units Teess than 0.5 mg/	emperature: : L, cinsider val	ues as stabi	ic Conductance lized Turblidity	: ± 3% Diss	olved Oxyge	n: 10% for v	alues gre	ater than 0.5	mg/L, if t	three C	O values		
				· · or or or or y r		Ainmin nia		ande mil	worth exemples	- GIE 1622	F11011 2	INIUS,		

consider stbilized | ORP: + 10 mV

² Standard decontamination procedures includes Di water rinse, Luminox solution wash, Di water final rinse, & air dry

^{3 1} gpm = 3,785 4 mL/min

SITE NAME	WMATA North	ern Bus Stati	ол	SITE LOC	ATION: 46	15 14th Street	t NW		PROJEC	T NO.: B	400-517		
				Washingt		011					2111		
WELL NO	TMW-	0185		SAMPLE		41.1	14.5		DATE		. 1		
		OITU				1W-0					10/	<u> </u>	
WELL		TUBING	- 6 10	75 WELL SC	PURG	ING DAT	A TIC DEPTIL		Inuna a				
DIAMETER		DIAME.	TER (inches):	DEPTH /	1. 7 feet to	A. Alto	WATER (feet)	12 7	PURGE I	ED DD	PE		
WELL VOL	UME PURGE: 1	WELL VOLU	ME = (TOTA	L WELL DEPTH	- STATI	C DEPTH TO	WATER) X	WELL	CAPACITY				
(only fill out	t if applicable)		= (19.19 fe	nt /	2.7	feet))	,	0 04		or 33	_	
EQUIPMEN	T VOLUME PUR	GE: 1 EQUIP	MENT VOL.	= PUMP VOLUM	+ (TUBIN	G CAPACITY			0 , 04 ENGTH) +	gallons/	TOOL =	JME	6 gallons
(only fill out	if applicable)			= galic	NO.	TE: YSI 556M	VPS flow cell v	olume :	= 500 mL =	0.13 galio	ons (1 g	allon = 3,	
	MP OR TUBING	FIN	IAL PUMP OF	R TUBING ,	PURGIN	IG	s/foot X PURGIN	IG	feet) +		TAL VO	allons =	gallons
DEPTH IN V	VELL (feet):		PTH IN WELI	(feet) /5	INITIATE	ED AT 14:0	OS ENDED		14:22			galions):	
	VOLUME	CUMUL. VOLUME	PURGE	DEPTH TO	рH	TEMP.	COND. (circle units)		SOLVED XYGEN	TUODU		000	COLOR/
TIME	PURGED (gallons)	PURGED	RATE (gpm)	WATER ((feet)	(standard units)	(°C)	μm <u>hos/</u> cm		ng/L/	TURBI (NTL		ORP (mV)	ODOR
		(gallons)		' '			or µS/cm		aturation	<u> </u>			(describe
14:14	0.48	0.48	0.08	12.7	7.34	11.84	963	1	.27	12.	スト	5.5	5
14:16	0.12	.60	0.06	12.7	7.29	11-63	983	٥	. 87	7.2		-16.2	1
14:13	0.12	. 72	0.06		7.25	1147	974		73	3.8			/
14,20	0.12	.84		1	7.24							<u>- 21.4</u>	1 11-
						11.52	973		.64	3.0		24,	· lieget
14:22	0.12	.96	0.06	127	7.23	11:50	974	0,	60	4.1	구 -	26.	1 stee
	<u> </u>		-										
											_		
											_		
66													
	CITY (Gallone Bo	r Footh: 4/2	" = 0.010 - 0	75" - 0 00 4" -	0.04								
TUBING INS	CITY (Gallons Pe	ITY (Gal./Ft.);	1/8" = 0 000	75 = 0 02 1" = 06 3/16" = 0 0	0.04; 1.2	5" = 0.0026 4" = 0.0026	5/16" = 0.00		4" = 0.65; 3/8" = 0.006		6" = 1 = 0.010		" = 5.88 = 0.016
URGING E	QUIPMENT COD	ES: B = 8		= Bladder Pump			mersible Pum		PP = Perista			= Other	
				/S	AMPL	NG DAT	Ά						
AMPLED B	Y (PRINT) / AFFIL	IATION:	SAN	IPLER (9) SIGNA	TURES)	60		PLING	40.	74	SAMPL	_	
PUMP OR TU			TUE	ING	العلا ،				T: 02:		ENDED		
EPTH IN W		15	MA	ERIAL CODE: H			FIELD-FILTER Filtration Equip			PIL	TER SIZ		_ hw
	NTAMINATION:	PUMP (Y)		NG(Y)N (repla	ced) (OTHER (speci	fy) Y	N	DUPLICAT	E Y	(N)	DUF	P. ID:
	PLE CONTAINER		LION	22	1	PRESERVAT	ION		INTEN	DED	SAMP	ING S	AMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED*		OTAL VOL) IN FIELD (mi	FINA		ANAL		EQUIP		FLOW RATE
				USED	ADDEL	THA FIELD (MI	L) pi		AND/OR N	METHOD	COL)E (n	nL per minute)
MW-OHD	- a	AG	14	porce	ے.	OTO	1 5	23	Serve.		PRP		70- 1
	3								8270		-		BOOM
	3	CG	40ML	HCL	10	lo	7.8	<u>×3</u>	8260	100	4		
	5												-
									 			\dashv	
									_				
													
WELL VOLU	MEC	DELLABORE			<u> </u>								
WELL VOLU		REMARKS: 'Samples pla	ced on ice ev	bsequent to collec	rtion								
ATERIAL C	ODES. AC	3 = Amber Gla	35; CG = (Clear Glass: P	E = Polveti	hylene; PP	= Polypropyle	ne; S	S = Silicone:	T = Te	flon	Q = Othe	r (Specify)
AMPLING/PI	URGING APP = /	After Peristalti	c Pump; B = I	Bailer BP = Bladd	ler Pump; l	ESP = Electric	Submersible	Pumn: I	PP = Perieta	Itic Pume	WILL -	Materia	vol Motor
OTES: 15	CODES: RFPP = Stabilization Crite	ria for range	w Peristaltic F of variation of	'ump;SM = Straw	Method (T	ubing Gravity	Drain); VT = V	acuum 4	Trap; O = 0	ther (Spe	cify) LP	= Lab Pi	reserved

consider stbilized; ORP: + 10 mV.

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

less than 0.5 mg/L, cinsider values as stabilized Turbidity: 10% for viaues greater than 5 NTUs, if three turbidity avalues are less than 5 NTUs,

3 1 gpm = 3,785.4 mL/min

	GROL	INDWA	TFR	SAMPL	ING I	OG
--	------	-------	-----	-------	-------	----

CITE NAME	WMATA North	- Bus Ctati				וו טאוי		, LO	_					
	WMAIA NORD	em Bus Statio	on	Washin	gton D.C. 20	15 14th Stree 011	t NW		PROJEC		1445T		>	
WELL NO:	TMW-	15		SAMPLI		W-15			DATE:	1/10	1/2	ユ ユ		
Dage.					PURG	ING DAT	ΓΑ				/			
WELL DIAMETER			TER (inches):	75 WELL S	i?c/o feet to	8 6 TO	ATIC DEPTH WATER (feet	12.05	PURGE I	FR PP	PE	_		
(only fill out	JME PURGE: 1 if applicable)	WELL VOLU	ME = (TOTAL = ({5	L WELL DEPT	H - STATI	C DEPTH TO	WATER) X	WELL	CAPACITY			0 "		
(only fill out i	T VOLUME PUR	GE: 1 EQUIP	MENT VOL.	PUMP VOLU	ME + (TUBIN	G CAPACITY		IBING LE	NGTH) + F	LOW CE	LL VOL	UME		allons_
INITIAL PUN	P OR TUBING	lFiN	AL PUMP OR	THRING	IDUDON	gallons	s/foot X		feet) +			gallons	= g	allons
DEPTH IN W		ڪ' DEI	PTH IN WELL	(feet): しょし	INITIATI	ED AT: 9:5	5 ENDED		0:07	PU	TAL VO	JLUME (gallon:	s): 0 ·	48
TIME	VOLUME PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH) (standard units)	TEMP.	COND. (circle units) µmhos/cm or uS/cm	OX (m	YGEN YGEN Iduration	TURBII (NTU	DITY	ORi (mV	- T	COLOR/ ODOR describe)
10:00	0 35	0.35	0.060	12.05	6.48	12.69	1010	_	1.6	5.0	: ,	-5.	1 0	earlo
10:02	0.10	0.45	0.031		6.31	12-75	1007		25	4,6		-40	/	ery or
10.05	0.036	0.46	0:01	12.05	6.21	1247	1010		011	3.9	$\overline{}$	<u>-3-</u>	5	
10.07	0.02	0.41	0.01	12.05	6-13	12.45	8001		05	3-8		-3-c		
													\perp	
WELL CAPA	CITY (Gallons Pe	er Foot): 1/2'	'= 0.010	75" = 0.02· 1	" = 0 04 1 2	5" - 0 06: 3	7 - 0 48 - 28	0.37: 4	II - 0.05	FII 4 55				
TUBING INSI	DE DIA. CAPAC	ITY (Gal./Ft.):	1/8" = 0.000	6; 3/16" = (0.0014; 1/4	4" = 0.0026;	5/16" = 0.0	04, 3	/8" = 0.006		= 0.010		12" = 5.8 8" = 0.0	
PURGING EC	QUIPMENT COD	ES: B = B	aller, BP	≃ Bladder Pun			mersible Pun	ıp; F	P = Perista	altic Pumi	p; C	= Oth	er (Speci	fy)
SAMPLED BY	(PRINT) / AFFII		SAM	PLER(S) S(G)	ATURES:	ING DAT	SAM	IPLING	1 1000	-	SAMP	LING	100 000	
PUMP OR TU	IBING		TUB		knjor ()	2402_	FIELD-FILTER	IATED A			ENDE			
DEPTH IN W		12	MAT	ERIAL CODE:			Filtration Equi			- FIL	IER 312	45	µm	
	NTAMINATION: PLE CONTAINER	PUMP(Y)		NG N (re		OTHER (speci PRESERVAT		Y N	DUPLICAT	E: Y	(N)	D	UP. ID:	
SAMPLE ID CODE	#CONTAINERS	MATERIAL CODE		PRESERVATI	VE TO	OTAL VOL	FIN		INTEN ANAL	YSIS	SAMP EQUIP		SAMPL. FLOW	E PUMP RATE
		0002			ADDEL	N FIELD (m	L) pi	7	AND/OR N	CO			minute)	
TMW-15	g	AG	14	rone	2	2,000 6.19			18 SVOC			APP		
	_ 3	CG	40ML	HCI		120	_ G	18	3260	VOC	RF	del		f o
													~~	
							_							
					-									
-					_		_					_		
WELL VOLU		REMARKS:			<u> </u>									
0.5		Samples pla	ced on ice sub	sequent to co										
MATERIAL CO	URGING APP = /	G = Amber Gla After Peristaltii	iss; CG = C	lear Glass;	PE ≃ Polyet	hylene; PF	= Polypropyl	ene; S	= Silicone;	T = Te	flon;	0 = 0	her (Spe	cify)
QUIPMENT (CODES: RFPP :	= Reverse Flor	v Peristaltic P	ump:SM = Str	aw Method (T	ubing Gravity	Drain): VT = \	/acuum T	r = rensta frap: 0 = 0	nuc Pump ther (Spe	o; vvM ≃ ecifv): I 4	vvater = Lab	Level Me	ed ed
IUIES: 15	Stabilization Crite H: ± 0.1 units Te	<u>rra for range (</u>	of variation of	last three cons	secutive read	ings per EPA	EQASOP-GV	/4					- 6	

pri: 0.1 units 1 emperature: ± 3% Specific Conductance: ± 3% Dissolved Oxygen: 10% for values greater than 0.5 mg/L, if three DO values less than 0.5 mg/L, consider values as stabilized Turbidity: 30% for values greater than 5 NTUs, if three turbidity avalues are less than 5 NTUs. consider stbilized; ORP: + 10 mV.

² Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry, 3 1 gpm = 3,785.4 mL/min



SITE NAME	WMATA North	ern Bus Statio	on		CATION 46°	15 14th Stree		10 20		T NO. A		1100	<u> </u>
WELL NO	Tmul	-016		SAMPLI	E ID		216		DATE	1/10	12	7	<u></u>
	111100	010				<u> かん) - (</u> ING DAT				1//0	12	<u></u>	
WELL	(inches) II	TUBING	0 10	15 WELL S	CREEN INTE	RVAL ST	ATIC DEF	PTH II.O	PURGE	PUMP TY	PE		
WELL VOL	(inches) 1 UME PURGE: 1	WELL VOLU	TER (inches) ME = (TOTA	DEPTH	13 5) feet to	3 - 25 TO	WATER	(reet)	IOR BAIL	ER: PP			
	if applicable)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0 55									
EQUIPMEN	T VOLUME PUR	GE: 1 EQUIP			feet - ME + (TUBIN	G CAPACITY	feet X		D: 04 .ENGTH) + i	gallons/ LOW CE	foot LL VO	= <i>O</i> - ⊰ LUME	4.) gallons
(only fill odt i	if applicable)				NO allons + (TE YSI 556/	MPS flow s/foot X	cell volume	= 500 mL = feet) +	0 13 gallo	ns (1	gallon =	
1	IP OR TUBING	4.	AL PUMP OF	R TUBING	PURGIN	IG	PH	RGING i		TO		OLUME	
DEPTH IN V	VOLUME	CUMUL.	PTH IN WELI	} 		ED AT 10 4	CON		SOLVED	PL I	IRGED	(gallons	
TIME	PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP,	(circle u µmhos	nits) O /cm	XYGEN mg/L / saturation	TURBI (NTU		ORF (mV	I ODOR
10:45	DINOSI	0.1	0.05	11 00	6.66	13.6	121		1.32	53	. (-7-	7.8
10.50	0.25	.35	0.05	1100	6.68	13.61°	121	8 /	,34	10.		79	S
10:55	0.25	0.60	0.05	11.00	a73	13 72	121	3 0	000	4.8	5	-32	
11:00	0.25	0.85	6.05	11.00	6.73	13.85	122	0 0	17	4.0		-84	
11.02	0.1	0.95	005	11.00	6.74	13.75	121	9 0	.69	3.9	3	-83	.7
TUBING INS	CITY (Gallons Pe IDE DIA. CAPAC QUIPMENT COD	ITY (Gal./Ft.)	1/8" = 0.00	06 3/16" =	0 0014; 1/4	4" = 0.0026,	5/16"	= 0 004,	3/8" = 0.006	1/2"	= 0.01		12" = 5.88 '8" = 0.016
PORGING E	SOLWENT COD	ES. B = £	saller, BP	= Bladder Pur		= Electric Sut ING DAT		Pump;	PP = Perist	altic Pum	p;	O = Othe	er (Specify)
SAMPLED B	Y (PRINT) / AFFI	LIATION	SAM	MPLER(S) BIG	NATURES	JE .	-	SAMPLING INITIATED	Acres and a	É	SAME		
PUMP OR TU		14'		3ING				LTERED:	Y (N)		TER S		μт
DEPTH IN W FIELD DECO	NTAMINATION:	PUMP (Y)	N TUB	TERIAL CODE	Placed) (OTHER (spec	_	Equipment 7	DUPLICA:	TE· Y	(N	D	UP. ID
	PLE CONTAINER	R SPECIFICAT				PRESERVAT			INTER				SAMPLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED*		OTAL VOL) IN FIELD (m	13	FINAL pH	ANAL	YSIS	EQUI	PMENT	FLOW RATE
			1				7	pri	AND/OR		CC	DDE	(mL per minute)
MW-16	2	AG	14	none	2,	000		6.74	SVI				200
	3	CG	40ML	HCL		120		6.74	8260	VOC			
			-										
EMEL MO	Ince.	DEMARKS											
WELL VOL	-1	REMARKS: * Samples pla	ced on ice su	bsequent to co	llection								
MATERIAL C		G = Amber Gla	ass. CG = (Clear Glass	PE = Polyet	hylene; Pi	= Polyp	ropylene;	S = Silicone	T ≃ Te	eflon;	0 = 0	ther (Specify)
EQUIPMENT	URGING APP = . CODES: RFPP	= Reverse Flo	w Peristaltic I	Pump;SM = Str	aw Method (T	ubing Gravity	Drain): V	T = Vacuum	PP = Perista Trap: O = 0	altic Pump Other (Spe	o, WM ecify). I	= Water P = Lab	Level Meter Preserved
NOTES: 1	Stabilization Crite pH: ± 0.1 units Te	eria for range	of variation of	flast three con:	secutive read	lings per EPA	EQASOR	-GW4					
- 1	ess than 0.5 mg/ consider stbilized	L, cinsider val	ues as stabili	zed Turbidity:	10% for vlaue	es greater tha	n 5 NTUs	if three turi	oidity avalue	s are less	than 5	NTUs,	3

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash. DI water final rinse, & air dry

3 1 gpm = 3,785 4 m∐/min

SITE NAME	: WMATA North	em Rus Statie	20	SITELO	CATION: 46	15 14th Stree	4 MIM		IDOO:E	37 NO - A	4.4			
	************************************	om das diam	711		gton D.C. 20		f 14AA		PROJEC	CT NO.: A			,	
WELL NO:				SAMPLE		011			DATE		744	110E		
	TMW	-017	-			MM-DI	17		DATE	ì	110	/ Ja		
						ING DAT						/ 3.4		
WELL	.11	TUBING	0.137	5 WELLS	CREEN INTE	RVAL ST	ATIC DEPTH		PURGE	PUMP TY	'PE			
DIAMETER	(inches);	DIAMET	'ER (inches):	DEPTH:	16. Sfeet to	6.8 TO	WATER (feet	10.6	STOR BAIL	ED- DD	_			
WELL VOL	UME PURGE: 1 t if applicable)	WELL VOLU	ME = (TOTAI	L WELL DEPT	H – STATI	C DEPTH TO	WATER) X	WELL	CAPACITY	,				
(Othy thi out	(ii applicable)		= ((6.8	feet - /C	1.64	feet)	Y	0.04	colloge	Mani	- 0	24	
EQUIPMEN	T VOLUME PUR	GE: 1 EQUIP	MENT VOL. =	PUMP VOLU	ME + (TUBIN	G CAPACITY	X TI	BING LI	ENGTH) + I	FLOW CE	LL VO	LUME		
(only fill out	if applicable)			= 16,8 ge	, NC	TE: YSI 556	MPS flow cell	volume =	= 500 mL =	0.13 gallo	ons (1	galion =	3,785	mL)
INITIAL PU	MP OR TUBING	. IFIN	AL PUMP OR	TUBING	PURGIN	gallon IG	s/foot X PURGII	VG.	feet) +	ITC	TAL V	gallons OLUME		gallons
DEPTH IN V		13 DEI	PTH IN WELL	(feet): 13			25 ENDED		11:45			OLUME:		
	VOLUME	CUMUL.	PURGE	DEPTH TO	ρH		COND	DIS	SOLVED	T		· (galloni	-7-	
TIME	PURGED	VOLUME PURGED	RATE	WATER	(standard	TEMP.	(circle units)		YGEN	TURBI		ORI	P	COLOR/ ODOR
	(gallons)	(gallons)	(gpm)	(feet)	units)	(°C)	μmhos/cm or μS/cm	1	ng/L [*] /	(NTU	is)	(m∨	7	(describe)
11:28	0.09	009	0 07	10 100	7	7 A. 100 L				-01	ed.	- 37	_	
			0,03	10.68	7.00	14.15	1170	<u></u>	7.88	21.	<u>o</u>	-22	<u>t </u>	
11.30	0.09	0.18	0.03	10.68	7.00	1423	1100		0.79	18.	1	33.	6	
11:32	0.09	0.37	0.03	10.68	6,99	1447°	1047		0.64	12.	3	-37.	8	
11:34	0.09	0.36	0.03	10.68	6.96	14.46	1019		5.6		_		-	
11:34	0.09	0.45						_		8.		- 35.	- 	
			0.03	10.68	6,75	14.43	992	<u> </u>	<u>, 55 </u>	6.	7	-39		
11:38	0.09	0.54	0.03	10.68	6.90	14.713	950	0	.53	5,2	a	-39	.6	
11:40	0.09	0.50	0.03	10.68	8 88	14:30	942	0	.53	4.1	4	-39.		
11:42	0.09	0.72	0.03	10.68	6.87	14.39	943							
111.15		U . 7 2	0,00	10,60	0154	19131	145	U.	51	3,6	<u>) </u>	- 39	17	
													_	
	<u> </u>										1			
WELL CAPA	ICITY (Gallons Pe	er Foot); —1/2°	' = 0.010; 0.3	75" = 0.02; 1'									12" =	5.88
	QUIPMENT COD		1/8" = 0.000	6; 3/16" = (= Bladder Pun		4" = 0.0026;	5/16" = 0.0 mersible Pun		1/8" = 0.006		= 0.0		/8" = (
			O		_			ıρ;	PP = Perist	altic Pum	р,	O = Oth	er (Sp	ecity)
SAMPLED B	Y (PRINT) / AFFI	LIATION:	ISAM	IPLER(S) SIGN		ING DAT		1PLING		<u> </u>	I CANA			
		RE				7 (M			m={	45	ENDE	PLING D AT		
PUMP OR TO		i.	TUB		2		FIELD-FILTER				TER S		μπ	n
DEPTH IN W		13		ERIAL CODE:			Filtration Equi							
	NTAMINATION:	PUMP (Y)		NE X N (ret		OTHER (spec		<u> </u>	DUPLICA"	TE Y	(N)	UP. I):
	PLE CONTAINE					PRESERVAT			INTEN	IDED	SAM	PLING	SAM	PLE PUMP
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED*		OTAL VOL) IN FIELD (m		AL	ANAL			PMENT	FLC	W RATE
					ADDEL	/ IN TIELD (III	-) p	H	AND/OR I		C	DDE	(mL p	per minute)
FIG-WMT	ລ	AG	14	None	2	600		64	827			2.0.0	,	~ 0
	3	, "						87	5V0		17	rr		50
		CG	40ML	HeL	10	10	6,	87	8260	FOC		<u> </u>		
							_							
$\overline{}$					1									
					+									
												T		
WELL VOL		REMARKS:												
	Zgal.			sequent to col										
MATERIAL C		G = Amber Gla	195; CG = C	lear Glass;	PE = Polyet	hylene; Pi	= Polypropyl	ene; S	= Silicone	T = Te	flon.	0 = 0	ther (S	pecify)
EQUIPMENT	URGING APP = . CODES: RFPP	oner renstaltit = Reverse Flo	: cump; B = E v Peristaltic D	ump:SM = Ste	iager Pump; aw Mathad (1	ubine Genite	Submersible	Pump; I	P = Perista	altic Pump	, WM	= Water	Level	Meter
NOTES: 1	Stabilization Crite	eria for range o	of variation of	last three cons	ecutive read	lings per EPA	EQASOP-GV	/4						Devis
	pH: <u>+</u> 0.1 units Te	emperature: <u>+</u>	3% Specific	Conductance	: ± 3% Diss	olved Oxygei	n: 10% for val	ues area	ter than 0.5	mg/L, if t	hree [O value	s	
	less than 0,5 mg/ consider stbilized	L, cinsider val	ues as stabiliz -\/	ed Turbidity:	10% for vlau	s greater that	n 5 NTUs, if th	ree turbi	dity avalue:	s are less	than 5	NTUs		
		, UKC: + 10 N	HV.											

2 Standard decontamination procedures includes DI water rinse, Luminox solution wash, DI water final rinse, & air dry.

3 1 gpm = 3,785,4 mL/min

SITE NAME	WMATA North	em Bus Stati	on		OCATION: 461			0 20	PROJEC		14410		
WELL NO	TMW-	018		SAMPL	E ID:) 0		DATE:	<u> </u>	1 -		
	11.11	UID				NG DAT				11	0 2	7	
WELL	(inches) [1]	TUBING		S WELL S	COPERI INTE	DVAL CT	ATIC DECT	1 12 1	PURGE	PUMP TY	PE	_	-
WELL VOLU	(inches) IME PURGE: 1	DIAME:	TER (inches)	DEPTH	17.7 feet to	707 TO	WATER (fe	et): 15 {	OR BAIL	ER PP			
(only fill out	if applicable)	***************************************		7.7		100	WAIER)						
EQUIPMENT	VOLUME PUR	GE: 1 EQUIP	MENT VOL. =	PUMP VOLU	feet – JME + (TUBIN	G CAPACITY	feet)		. 04 ENGTH) + F	gallons/f	oot = O	18	gallons
(only fill out i	f applicable)					TE: YSI 556	MPS flow ce	I volume	= 500 mL =	0.13 gallor	ns (1 gallon		
	P OR TUBING	1 30 0	IAL PUMP OR	TUBING	-/ PURGIN	G	s/foot X		feet) +	2 TO	gallon TAL VOLUM	E	gallons
DEPTH IN W	VOLUME	CUMUL.	PTH IN WELL	-		DAT: /37	COND		1 SOLVED	2 Pui	RGED (gallo	ns). (1-31
TIME	PURGED (gallons)	VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP, (°C)	(circle unit µmhos/cr	s) C	XYGEN	TURBIC (NTU:		RP IV)	COLOR/ ODOR (describe)
12:016	0.08	0.08	0.02	13.3	C.67	11.8	351		1.47	91	-2	5.7	clies 1
12:63	0.03	0.16	0.01	13.3	6.67	11.7	3203	_	.67	44	_		cles
12.12	0.09	0.2	0.01	13.3	6,60	10.6	3017	\neg	15	6.2	34	_	1
12 15	003	0.23	10.0	13.3	6-66	10.4	2767		63	42		5.0	2
12.17	0.02	0.25	0.01	13 3	6.66	10: 1	2677	_	27	36	-3		
12:19	0:02	0,27	0.01	13.3	666	9.3	3519		34	22	*32		
12 21	0.02	0.29	0.01	13.3	6.66	9.6	2444		51	21	3		1
12:23	0.02	0:31	0,01	13.3	6 66	9.5	2107	_	.75	22	-3		4
43							2101					1002	-
16	350							1					
PURGING EC	CITY (Gallons Po DE DIA. CAPAC IUIPMENT COD	ES: B = B	1/8" = 0 000 ailer; BP	8; 3/16" = Bladder Pur PLER(S) SIG	0.0014; 1/4 np, ESP SAMPLA	" = 0.0026; = Electric Sul	5/16" = 0 omersible Po	004;	3/8" = 0.006 PP = Perista	, 1/2" : altic Pump	= 0.010 O = Of	5/8" =	0.016
	(PRINT) / AFFI	RR		N.	20	1	IN	THATED	1 7 4	-	SAMPLING ENDED AT:	13	55
PUMP OR TU DEPTH IN WE		15'	TUBI	ERIAL CODE	HDPE		FIELD-FILT Filtration Eq			FILT	ER SIZE	и	m
IELD DECOM	NOTAMIMATION	PUMP (7)	N TUBI			OTHER (spec		YN	DUPLICAT	E Y	- Ø	DUP.	D:
SAMPLE	LE CONTAINE		_	DECEDIAT		PRESERVAT	1-	****	INTEN	DED	SAMPLING	SAN	IPLE PUMP
ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATI USED*		TAL VOL IN FIELD (m		INAL pH	ANAL'			IPMENT FLOW	
14W-018	2	AG	14	none	2	000	Car	66	8270	SVOC	PREP		65 116
V	3	CG	40mL	HCL		120	6.		8260		V		
-	-				-		4						
-					-		-			-			-
		-			-								
-	-		-	-	-	_	-	_	-	-		_	
-	-		-		-			-					
WELL VOLU	MES	REMARKS	-		1		- 1	-					
ATERIAL CO	, 4	* Samples plac G = Amber Gla	ced on ice sub	sequent to co	llection PE = Polyeth	ulana: 60) = Datino	ulanc:	0 = 022	-			
AMPLING/PL	IRGING APP = A	After Peristaltic	Pump B = B	ailer: BP = BI	adder Pump: I	SP = Electric	Submersib	le Pumo:	S = Silicone, PP = Perista	ttic Pump	WM = Wet	r L ava	Specify) Meter
01ES 1 5	tabilization Crite	ria for range o	of variation of I	ast three con:	secutive_read	ings per EPA	EQASOP-G	W4					Devis
le	H; ± 0.1 units To ess than 0.5 mg/ onsider stbilized	L, cinsider vali	ues as stabiliz	Conductance ed Turbidity:	 ± 3% Disse 10% for viaue 	olved Oxyger s greater than	n: 10% for v n 5 NTUs, if	alues gre three turt	ater than 0 5 oldity avalues	mg/L, if the	ree DO valu han 5 NTUs	es	

2 Standard decontamination procedures includes DI water rinse. Luminox solution wash, DI water final rinse, & air dry

3 1 gpm = 3,785.4 mL/min

Topo