APPENDIX A3 Applicable Field Notes and Forms (2019-2020 Investigation)



3/18/19 leaster bottles we do have: 33 presv. voces IX IL presu HCI amber 25×12 nonpresv. comber We'll be doing Italing water samples from 11 wells part week plus one duplicate, so this this this week. -50 Field Notes - MMB well development 3/18/19 0745-arrive anote 0815 - I team from Holt arrives 0820 - I go over what reeds to be don WI Holt team, give them my maps K 0900-leave site go back to HC to Prep samples for 126 1300-take coolers of samples to AAL + Onsite Val reeds: 1 x IL amber (better & preserved) - Val will get 2x 40mL voa (presv. voæs) -> we have enargh -Val seers to bring back the non-press. ambers and will make them press. For us for arother (or semie) HC project. (Unless we'll be taking gw samplies for PAHS - those need to be nonpress.). 1 100 Scale: 1 square = Rito: the Rai

3/15/19 MMB 1940901 - Well Development bach@site ~1430 HMW21B ZPOMPED Very well 54711 HNW252-245 gel out, thinked gut, but Muchybreg HNW-2DJ2 pumped slowly-dried up, waited to by fechatge, etc. -HMWI-shallow=dittiest HMWI-deeper=clearer/olearest HMW3A-dries out, has to recharge Done (Q= of 1440): HMW-IS HMW-ID, HMW-11B HMW-21A, HMW-2D, HMW-21B Working on (as of 1440): HMW-23, HMW-31A Remaining (es of 1440): HMW-30, HMW-HIA, DMW-IS Only 2 downs left (as of 1440): HMW-41A - pumped very well, 55 gallons HMW-3D-pumped slowly, hept drying up; HMW-31A - pumped slowly, hept drying up 20 gallons Holt Finishes up - 1715 Leave site @ 1730 One more well to develope: DMW-15

JOB NO. 1940901 TIDALLY INFLUENCED YES NO X PROJECT MANAGER Dog 1 = 1 + 5 h all jian SCREENED INTERVAL IN FEET 901 Image: Screenee interval in Feet 901 SCREENED INTERVAL IN FEET 901 Image: Screenee interval in Feet 901 SCREENEE interval in Feet 901 Image: Screenee interval in Feet 901 Casing volume in Gallons 11.59 DEPTH TO SEDIMENT (DTS) IN FEET 90.33 Purge volume in Gallons 11.59 DEPTH TO WATER (OTN) IN FEET 90.33 Purge volume in Gallons 1.55 Image: Other in voltage No. of Conduct Oxygen Actual Purge in Gallons 1.55 Image: Other in voltage Image: Order in voltage No. of Steen, accumulated sills Image: Other in voltage Image: Order in voltage No. of Steen, accumulated sills Image: Other in voltage Image: Order in voltage Image: Other in voltage No. No Image: Other in voltage Image: Other in voltage Image: Other in voltage Image: Other in voltage Image: Other in voltage Image: Other in voltage Image: Other in voltage Image: Other in voltage <tr< th=""><th></th><th></th><th></th><th>C. (for new w er of building</th><th></th><th>ist</th><th></th><th>ATE/TIME SAM</th><th></th><th>3/20/19</th><th>- 120</th><th>6</th><th></th></tr<>				C. (for new w er of building		ist		ATE/TIME SAM		3/20/19	- 120	6	
FIELD REPS DETERMATING SCREENED INTERVAL IN FEET GO - 90 Purging Data/Field Measurements: All Measurements Relative to Top of Casing (TOC) WELL DEPTH 90 CASING VOLUME IN GALLONS [1.59 DEPTH TO SEDIMENT (DTS) IN FEET 91.41 CASING VOLUME IN GALLONS DEPTH TO WATER (DTW) IN FEET 90.33 PURGE VOLUME IN GALLONS (DTH TO WATER (DTW) IN FEET 90.33 PURGE VOLUME IN GALLONS (DTH TO WATER (DTW) IN FEET 90.33 PURGE VOLUME IN GALLONS (DTH TO WATER (DTW) IN FEET 90.33 PURGE VOLUME IN GALLONS (DTH TO WATER (DTW) IN FEET 90.33 PURGE VOLUME IN GALLONS (DTH TO WATER (DTW) IN FEET 90.33 PURGE VOLUME IN GALLONS (DTH TO WATER (DTW) IN FEET 90.33 OUT TWICK (DTW) IN FEET (DTH TO WATER (DTW) IN FEET 90.33 OUT TWICK (DTW) IN FEET (DTH TO WATER (DTW) IN FEET 10.33 OUT TWICK (DTW) IN FEET (DTW TO TOW) 71.05 OUT TWICK (DTW) (DTW TOW TOW TOW TOW TOW TOW TOW TOW TOW T			1941	0901							NO	\mathbf{X}	
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WELL DEPTH 90' CASING VOLUME IN GALLONS 11.59 DEPTH TO SEDIMENT (DTS) IN FEET 91.411 [2" diam = x.163 gal/ft] 4" diam = x.653 gal/ft] DEPTH TO WATER (DTW) IN FEET 20.33' PURGE VOLUME IN GALLONS 3.5 (DTS - DTW) $11.05'$ 20.33' PURGE VOLUME IN GALLONS 3.5 (DTS - DTW) $11.05'$ ACTUAL PURGE IN GALLONS 3.5 Time Purged pH in "C Oxggen Turbidity in the standard silvs [151 0.3 6.96 [1.56] Oxggen Turbidity in the standard silvs [153] 1 7.07 [1.56] Oxggen Turbidity in the standard silvs [153] 1 7.07 [1.56] 0.3 10.1 -57 5. Cloudy, DOW [153] 1 7.07 [1.56] 2.1 5.2 Cloudy, DOW 0.4 [154] 0.5 1 1.5 2.1 5.2 Cloudy, DOW 0.4 [155] 0.5 1 1.5 2.7 5. Cloudy, DOW 0.4 [155] <th>~</th> <th></th> <th></th> <th></th> <th></th> <th>0</th> <th><u> </u></th> <th></th> <th></th> <th></th> <th>10</th> <th></th> <th></th>	~					0	<u> </u>				10		
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) F	Field Equ	ipment					Type/Brar	nd/Serial N	lo./Material	Units		
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Bailer Type Water Level Probe			-	, <u> </u>						4011	nst		

		ouilding A)		DATE	E/TIME SAM LLY INFLUE _ DEPTH IN	IPLED INCED	3/20/19 Yes NO 65.487 EET <u>54.3-64</u>	112-8 X 1.31
Purging L	Data/Field Mea	asurements	: All Measure	ments Relativ	re to Top of	Casing (TOC	5)	
	SEDIMENT (DTS)		5.298 9.2994		' diam = x .1 GE VOLUME	e in gallc 63 gai/ft E in gallo In gallon	4" diam = x .653 gal/ft] NS	
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le: 1128 Comments								
	Method	in G	PM E	Depth of Equip. in Feet		oi ls dry? At no. of c	Yes	
Purge Sample	SUD. pum	ip c	1.2	60'	1 1	urge Water D	Disposal Method/Volume	Neger
2) Sampling) Data							
Bottle Type CUM ber VOCL	1	Analyses TPH - VCCs		Preserv.	Filter N	Duplica Field Bl	umber of Bottles te Sample I.D lank I.D te Sample I.D	3
B) Field Equ	lipment			7	ype/Bran	ıd/Serial I	No./Material Units	

										.D . <u>HMW-</u>
\sim	(e.g., 20' NI PROJECT JOB NO. PROJECT M FIELD REPS	W of E corrig <u>MM</u> 1940 IANAGER	C. (for new we er of building / B 990 90 80 70 70 70 70 70 70 70 70 70 70 70 70 70	a) Sters	m jian	DAT TIDA WEL SCR	e/TIME SAM ALLY INFLUE L DEPTH IN EENED INTE	PLED	3/20/19 YES NO T30.21 EET _ 20 - 3	1320 X
\bigcirc	WELL DEPT	H <u>?</u> SEDIMENT WATER (DT	<u>の. </u>		VIOL	CAS [2 PUR	Ing volum " diam = x .1 Ge volume Ual purge	E IN GALLC 63 gal/ft E IN GALLO	ons <u>2,00</u> 4" diam = x .653 gal/ NS	ft]
nple:	Time 1313 1314 (315 (320	No. of Gallons Purged 1. 1.3	_{рн} 6.30 6.3 6,33	Temp in °C 14,6 14,5 14,4	Conduct in <u>256</u> 496,3 495 494	Diss. Oxygen 1 in <u>10</u> 6.1 4,3 3,4	Turbidity 168 115 128	0RP in <u>#V</u> -49 -57 -64		r, recovery, color, odor, , accumulated silt/san JO, NS DO, NS DO, NS
	Comments	Method	mp	Pumpin in GPM	E	epth of quip. in Fee 25	tPL	irge Water D	Yes casing volumes Disposal Methpd/Volur	
2	Sampling Bottle Type CarNoe VOC DOVY	# of Conta		505 		Preserv.	Filter N N N	Duplica Field B	umber of Bottles ate Sample I.D lank I.D te Sample I.D	5
3	Field Equ Pump Type Bailer Type Filter Type	e/Tubing T	ype <u>Proc</u>	ective	45	PE -	Type/Bran Femp/pH/E. Water Level Other	C. meter	No./Material Unit YSI F 501/051	s to DSS

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	(e.g., 20' N		C. (for new w		11991	e of	MMB	3,~2	<u>50977</u> 2/19/19	7704	n Hay +
	PROJECT	194					E/TIME SAM		<u>(ES</u>	162 NO	<u>x</u>
		ANAGER	Jena	sen			DEPTH IN		901	_ 10	Δ
F	FIELD REP	s Doz	er12	hall	ign	SCRE		ERVAL IN FE	ET 79	-<69	
	Purging I	Data/Field	d Measure	ements: /) All Measuren	nents Relativ	e to Top of	Casing (TOC	*)		
\smile	NELL DEP1	- <u>u</u> C	281			CASI		E IN GALLO	NS 10.	65	
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			(W) IN FEET		7.9-61			E IN GALLO		ee gaang	
(DTS - DTV	1) _6	1.67				JAL PURGE	IN GALLON	IS	5	2
Г		No. of	1			Diss.					
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ŀ	1629	25	7.47	154	2925	42		-410,L	Clark	silęen, a	15 KOO
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ľ	1631	3.5	7.71	15.4	292.6	2.4	-	-457.	6 chege	F.N	S, NO
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n ple:	1635	5							27		
ſ	Purge	Method	mp	Pumpir in GPM	Ec	epth of quip. in Feet	-		Yes asing volumes isposal Methor		No
ļ	Sample					11		TUM	son	- 51	te,
(2)	Sampling	. Data									
\bigcirc	Sampling 										~
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	Voa			VOL		.4	N	Field BI			
								Rinseat	e Sample I.D.		
3	Field Equ	lipment		2		7	vpe/Bran	d/Serial N	lo./Materia	l Units	
\bigcirc			0	10	110				VZT	0	\mathbf{N}_{2}
	Pump Type		ype TTO	active	550 P.		emp/pH/E.		101	- 17	בהע כ
	Bailer Type						Vater Level	Probe	-521	<u>121</u>	-
	Filter Type					C	ther				

_	WELL LOCA	TION DES	C. (for new we	- 11s) <u>Midd</u>	ndwater. the of M	MB,	1)57	OFF From	n hoy	+ the
	PROJECT JOB NO. PROJECT M FIELD REPS	1940 IANAGER	1B Dgol Noy Eict	Jenso +Shq	tida Well		ENCED I FEET ERVAL IN F	3/70/19 Yes 46 Eet <u>34,8</u> 0	1000 NO X	- of - dust
	WELL DEPT DEPTH TO S DEPTH TO N	H 46 SEDIMENT WATER (DI	(DTS) IN FEET		H3' [2' 01 SH PURG	NG VOLUM ' diam = x . GE VOLUM	IE IN GALLO	ONS <u>4.3</u> 4" diam = x .653 NS		
mple:	Time 0952 0953 0954 0955 1000 Comments	No. of Gallons Purged 2.5 3 3.5 4 5	рн 6.92 7.41 7.50 7.55	in °C in <u>4</u> 14.7 93 14.7 93 4.7 93	Diss. Oxygen in <u>90</u> 56 8,4 59 3,6 59 3,0 58 2,6	Turbidity 36 25 17 14	0RP in <u>HV</u> -15 -116 -149 -166		uality, recovery, o neen, accumulate NO, NS NO, NS	
	Purge Sample	Method	pump 11	Pumping Rat in GPM	te Depth of Equip. in Feet りしい	P		Yes casing volumes Disposal Method/\ >	(olume	_X
2	Bottle Type	# of Conta	TÍ	ses 2H - 2C3	Preserv.	Filter N	Duplica Field B	umber of Bottles ate Sample I.D. lank I.D. te Sample I.D.	<u> </u>	
\bigcirc	Field Equ Pump Type Bailer Type	e/Tubing T	ype Proc	ectives	S. P.E. T	"ype/Braı emp/pH/E /ater Leve	n d/Serial I .C. meter	No./Material L YSD SDVi	Inits Pro I NS F)55

	-1-											
	HART	CRO	WSE	R Gr	oundv	vater	Samp	ling D	ata - W	ell I.D.	HMU	FYB
	WELL LOCA (e.g., 20' NI		•		iddle	76	MMB	~250	st ston	1 Poz	<u>+</u> +++	7,5h
	PROJECT	MMS	3			DATI	E/TIME SAM	PLED	5120/19	1034		Of.
	JOB NO.	1940	10901			TIDA	LLY INFLUE	NCED	YES	NO	X	
	PROJECT M	ANAGER	Boy J	enser			L DEPTH IN		66.5	15 1.0		
	FIELD REPS	VOE	1644	Shal	jian	SCR	EENED INTE	ERVAL IN FE	ET <u>52</u>	8-62	81	
)	Purging D)ata/Field	l Measure	ements: A	VII Measuren	nents Relati	ve to Top of	Casing (TOC	;)	,		
	WELL DEPT	н <u>66</u>	,51			CAS	ING VOLUM	E IN GALLO	NS 5.5	5-6		
	DEPTH TO S	BEDIMENT	(DTS) IN FE		711	[2	.1 diam = x	63 gal/ft	4" diam = x .6	53 gal/ft]		
	DEPTH TO V			74	,50'	PUR	GE VOLUME	IN GALLO	NS			
	(DTS – DTW) 34	.21			ACTI	UAL PURGE	IN GALLON	IS	3		
		No. of				Diss.						
	Time	Gallons Purged	pH	Temp in °C	Conduct	Oxygen in 2	Turbidity		Comments:		very, color, c imulated silt/s	
	1020		7.78	14 5	759	6.9	900	-61	tinhi	J. NIC		
	1024	15	7.96	145	7L1	7.3	600	-94	torbi	2 150	NS	
	1026	2	8.11	140	763	5,0	400	-(119	1010		1115	
	1027	2.5	8.16	14.8	764		200	19/	also b	Y N	C 1 K	
	10211	<u>~</u> ~>	0.10	1910	101	5,(Jaur	-1 60	aon	JY, N	MND	
e:	100-11											
	Comments	:										
		ŭ										
				Pumpin	g Rate D	epth of	Во	ils dry?	Yes		No X	
		Method		in GPM		quip. in Feel	t	At no. of c	asing volume:	;		
	Purge	Sub. pu		0.3		55		irge Water D	isposal Metho	d∕Vǫlume		
	Sample		N	\ \	د د	11	<u> </u>	rums	n	3179		
~												
:)	Sampling	Data										
		# of						Total nu	mber of Bottle	es <u>3</u>		_
	Bottle Type			yses VH -		Preserv.	Filter					
	voa			VOCS			N	Duplica	te Sample I.D			_
	1000			vig		<u> </u>		Field Bl	ank I.D.			-
								Rinseat	e Sample I.D.			-
7	Field Fau	inmont				· -		d/Sorial I	la /Mataria	l Unite		
/	Field Equ		0	L			урельтап	u/Seriai l	lo./Materia			
	Pump Type	/Tubing T	ype Kto	ative	AR	, <u>>, </u> Т	ſemp/pH/E.	C. meter	YSI	Kro I	755	
	Bailer Type				1		Vater Level		4011	1st		
	2 11 - 2						Other					
	Filter Type					L L	Juner					

(e.g., 20' N		C. (for new w er of building		VICON				3/19/19	1011	They we
PROJECT JOB NO.	194	ñga-		<u> . </u>		E/TIME SAM LLY INFLUE	_	(ES	NO	X
PROJECT		Jen	sen			L DEPTH IN		30		
FIELD REP	s Doz	sert	she	lijar	SCRI	EENED INTE	ERVAL IN FE	ET 19.4	6-29	.4
Purging l	Data/Field	i Measure	ements: A	All Measuren	nents Relativ	ve to Top of (Casing (TOC	»)		
WELL DEP	тн 🤇	201			CASI	ING VOLUM	E IN GALLO	NS 1.3	3	
DEPTH TO	SEDIMENT	(DTS) IN FE	ET J	7.65-5	H [2	" diam = x .1	63 gal/ft	4" diam = x .6	53 gal/ft]	
DEPTH TO	WATER (D	W) IN FEET	21	665		GE VOLUME	E IN GALLON	NS		
(DTS – DTV	V)	.17	,			UAL PURGE	IN GALLON	is <u> </u>		
	No. of				Diss.					
Time	Gallons Purged	рН	Temp in °C	Conduct	Oxygen	Turbidity	ORP in HV			overy, color, odor umulated silt/sand
1705	0.2	F160	17,4	695	31.6	274	42,0	doud	y, No	D, NS
1707	0.3	7.31	16.1	695	15.5	280	26.7	dout	CC N	D, NS
1 1 1 1 1 1				1000	19.8	1150	26.7	1 Peer	AND.	イイ
1704	0,5	7,30	15.9	691	VII	150		CNOCK.		1 <u>2</u> 2
1704	0,5	7,30 7,31	15.9	691	19.9	110	29.3	Clear	, NO,	NO
1709 1710 17720 Comment	3	1	15.9	1 4 4 4	19,9			Clear	, NO,	ŇÖ
VFO9 IF10 IF20 Comments Purge Sample	3	7,31	Pumpir in GPM	G & G & G & G & G & G & G & G & G & G &	epth of quip. in Feet $\sqrt{251}$	t Ba	19.3 lis dry? At no. of c	Yes		No <u>A</u>
Comment	S: Method	7,31 vmp	Pumpir in GPM	G 86	epth of quip. in Feet	t Ba	ils dry? At no. of c	Yes		No A
Comment Purge Sample	s: Method SUD. F	7,31 vmp	Pumpir in GPM	G 86	epth of quip. in Feet	t Bai	Its dry? At no. of c urge Water D	Yes	d/Volume	No A 2 5
Comment Purge Sample	g Data	7,31 vmp	Pumpir in GPM	G 86	epth of quip. in Feet	t Ba	Ils dry? At no. of c urge Water D	Yes casing volumes Disposal Method S CV	d/Volume	2
Comments Purge Sample	g Data	7,31 vmp	Pumpir in GPM	G 86	epth of quip. in Feet 2-5-1 1	t Bai	Ils dry? At no. of c urge Water D Total nu Duplica	Yes casing volumes bisposal Method S CV	d/Volume	2
Comments Comments Purge Sample Sample Bottle Type	g Data	iners Ana	Pumpir in GPM	G 86	epth of quip. in Feet 2-5-1 1	t Bai	Total nu Duplica Field Bi	Yes casing volumes bisposal Method S C C	d/Volume	2
Comments Purge Sample) Sampling Bottle Typ	g Data	iners Ana	Pumpir in GPM 0,2 Vyses PH - IOC,	G 86	Preserv.	t Filter	Total nu Duplica Field Bl Rinsear	Yes casing volumes bisposal Method S C/ umber of Bottle ute Sample I.D. lank I.D. te Sample I.D.	s	2
Comments Purge Sample) Sampling Bottle Type & MOR VOR	g Data	iners Ana	Pumpir in GPM 0,2 Vyses PH - IOC,	G 86	Preserv.	t Filter	Total nu Duplica Field Bl Rinsear	Yes casing volumes bisposal Method S C C	s	2
Comments Purge Sample Sampling Bottle Type Cambe VOC DOLUG Combe	g Data	iners Ana	Pumpir in GPM 0,2 vses PH - JOCs vstal TSS	G 86	Preserv.	t Filter	Total nu Duplica Field Bl Rinsear	Yes casing volumes bisposal Method S C/ umber of Bottle ute Sample I.D. lank I.D. te Sample I.D.	s	2
Comments Purge Sample) Sampling Bottle Type Combe Dollue Combe Field Eq	g Data g Data g Data uipment	iners Ana	Pumpir in GPM 0,2 vses PH - JOCs vstal TSS	G 86	Preserv. Y Preserv. Y F Y Y Y Y Y Y Y Y Y Y Y Y Y	t Filter Filter Type/Brar	Total nu Duplica Field Bl Rinsea C. meter	Yes casing volumes bisposal Method S C/ umber of Bottle ute Sample I.D. lank I.D. te Sample I.D.	s	2
Comments Purge Sample Sample Sampling Bottle Type Combe VOC DOLUC Combe Field Eq Pump Type	g Data g Data g Data uipment	iners Ana	Pumpir in GPM 0,2 vses PH - JOCs vstal TSS	G 86	Preserv. Y Preserv. Y F Y	Filter Filter Type/Brar	Total nu Duplica Field Bl Rinsear nd/Serial I C. meter	Yes casing volumes bisposal Method S C/ umber of Bottle ute Sample I.D. lank I.D. te Sample I.D.	s	2

1	HARI	TCRO	W/S ⁼						í	ell I.D	HMW3
	PROJECT		C. (for new w er of building		W Co	DAT	E/TIME SAM	IPLED	5/19/19		30
	JOB NO. PROJECT N FIELD REPS	s <u>b</u>	zier	isen	U	WEL	LLY INFLUE L DEPTH IN EENED INTE	FEET ERVAL IN FE		- 92	
<u> </u>	Purging I WELL DEPT DEPTH TO DEPTH TO	TH	月 <u>) (</u> 90 (DTS) IN FE	<u>' in log)</u> ет <u>9</u>	All Measuren 1/-21 2, 46	CAS		E IN GALLO 63 gal/ft	4" diam = x .65	0	<u> </u>
	(DTS – DTV	V) <u>5</u>	231			ACTI	UAL PURGE		is <u>4</u>	5	/
: =	Time 14/:08	Gallons Purged	pH G	Temp in °C	Conduct in <u>MSIC</u> 546			0RP in <u>MV</u> -305			overy, color, odc umulated silt/sar
mple:	14:22 1423 1423	2.5	B.25 4.13	18,7	545	660.0 9.0		-353 -434	chear,	N0, N	NS IS
	Comments	:: .:	turb	idity	GTQ	ber	nət	work	ing		<u> </u>
	Purge Sample	Method	emp 1	Pumpin in GPM O.J.	E	epth of quip. in Feet			Yes asing volumes isposal Method/ S 010		No <u>X</u>
2	Sampling	# of						Total nu	mber of Bottles	Z	
	Bottle Type	e Conta	TP	yses H - DCs		Preserv. Y	Filter	Field Bla	te Sample I.D. ank I.D. e Sample I.D.		
\bigcirc	Field Equ Pump Type Bailer Type Filter Type	e/Tubing T	ype <u>{1</u> 0	adiv	e 43.	<u>PE</u> T v	Type/Bran emp/pH/E. Vater Level Other	C. meter	lo./Material VSI SDV	Units Pro Not	D55
4	J:\Docs\Forms			mpling Data F	Not OK		39	tag	BLI	E19	9

(

	WELL LOCAT		. (for new w	ells) N	-	COTT				ata - Wel B. east		
	(e.g., 20' NN	of E corne	er of building	A)		<()						
	PROJECT	MM	<u>\5</u>					IME SAM		3/19/19	1520	
			<u>0(</u> Tao					/ INFLUE		YES 11000	NO X	_
			Sens					EPTH IN		-13,31		21
_	FIELD REPS	007		shall	912				ERVAL IN F		- 44,8	_rT
))	Purging Da	ata/Field	Measure	ments: /	All Meas	urements F	Relative t	o Top of	Casing (TO	C)		
- 1	WELL DEPTH	, V	5.5	4			CASÍNO		E IN GALLO	ONS 3,57		
				н =т Ц 4	5.60				63 gal/ft	4" diam = x .653 g	uol/#1	
	DEPTH TO W			22	413	C. I.			es gaint E IN GALLO	-	janiti	
	(DTS – DTW)		- ´		6 5 3							_
	(610 - 6100)	- d \ e			<u> </u>	·	ACTUA		IN GALLOI	· · · · · · · · · · · · · · · · · · ·		
		No. of Gallons		Tomm	Canal	Dis			000	0		
	Time	Purged	рН	Temp in °C	in <u>M</u>	~ / /		urbidity	In <u>MV</u>	Comments: qua	en, accumulate	
	1511	0.7	7,13	17,4	58	16 75	7,3	-	53,1	turbid.	NON	$\langle $
	1513	1	7.16	17.4	58	6 73	9		50.9	dreet 1	NO AL	
	1414	1,2	721	IT.H	55	5-73	2	_	474	rear N	NAK	
	1515	2	7,23	17,4	585	- 11	~		45.7	CIO201710	3012	
	1500	2	100		000	> 7d	10		123.7	Creen	<u>~~;~</u>	
le:	10 au									<u>_</u>		
	Comments:	-		6								
		_										
	Г			Pumpir	a Pata	Depth of	· · · · · · · · · · · · · · · · · · ·	Dei	a da a	Vee	N L-	M
		Method		in GPM		Equip. in		Da	ils dry? Atrice of u	Yes 	No	$ \Delta $
	Purge	Sub.r	amp	0,2		1 4D	1	D		Disposal Method/Vo	lumo	
	Sample	٢		1.		i v	τ	J.			1 + Q	
$\overline{2}$	Sampling	Data								·····		
											2	
	Bottle Type	# of Contai	ners Anal	ISAS		Pres	env	Filter	Total n	umber of Bottles		
	amber	1		14 -		1100		Ň				
	voa	9		10Cz		V		N		ate Sample I.D.		
										lank I.D.		
									Rinsea	te Sample I.D.		
2	Field Equi	oment					Tvi	e/Bran	d/Serial	No./Material Ul	nits	
			ß	1.		4 . I =			u, eenan) n	
	Pump Type/	Tubing Ty	vpe <u>In</u>	activ	re-	5.1P	- Ten	np/pH/E.	C. meter	YSI	to DS	5
	Bailer Type		•				-	er Level		421m	st	
	Filter Type						Oth					

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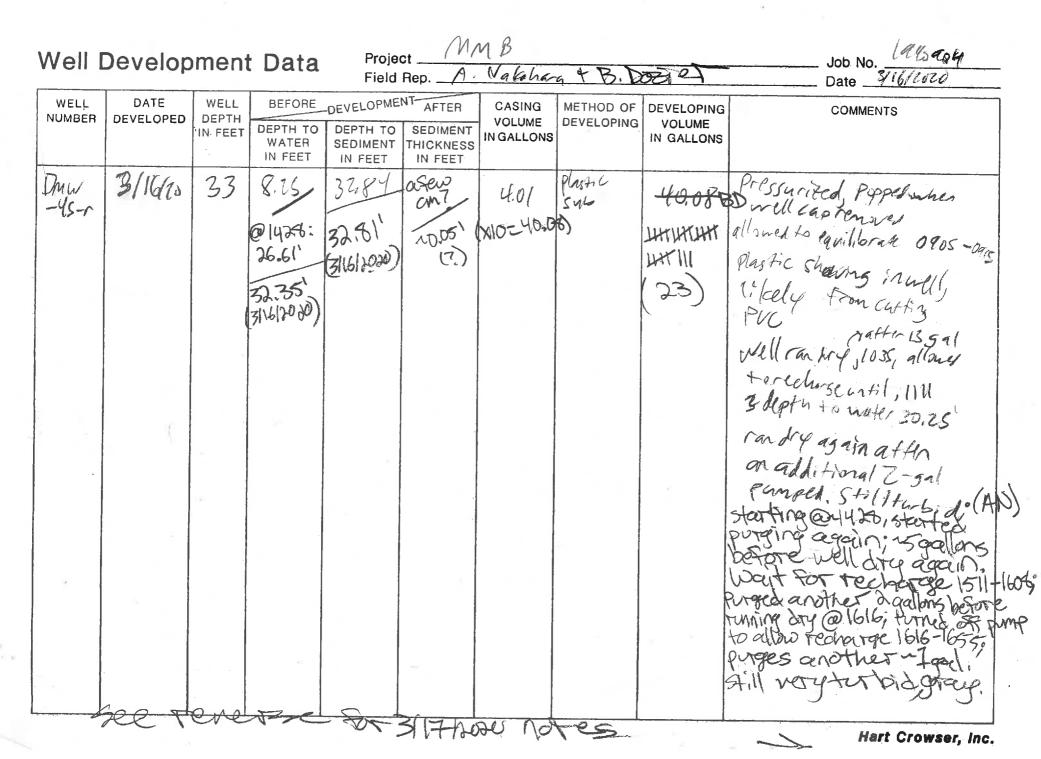
	TION DESC. W of E corner	•		NOI	mere	SF M	MB	
PROJECT	MME		,,,		DAT	E/TIME SAM	IPLED	3/19/19/1235
JOB NO.	19400	901			TIDA			YES NO X
PROJECT N		Jens	en		WEL	L DEPTH IN	FEET	601
FIELD REP	5 0021	er K	hee	lice	∩_ scr	EENED INTI	ERVAL IN FE	ET 50-601
) Purging I	Data/Field	Measure	ments:	All Measure	ments Relati	ve to Top of	Casing (TOC	C)
WELL DEPT	н 60	(CAS	ING VOLUM	E IN GALLO	INS 4.56 gal/ft
DEPTH TO	SEDIMENT (D	DTS) IN FEE	T 57	1.57+	[2	" diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]
	WATER (DTW		29	1.5Ft	PUR	GE VOLUME	E IN GALLOI	NS
(DTS – DTV) <u>}</u>	<u>i</u> 0				UAL PURGE	IN GALLON	15 - 5.5 gal
	No. of	·			Diss.			0
Time	Gallons Purged	рН	Temp in °C	Conduct		Turbidity		Comments: quality, recovery, color, od sheen, accumulated silt/sa
1226	2					Turbidity	<u></u>	turbid, DS. NO
1227	2,5	7.80	15.8	571	19.1	49	50.1	cheat NS NO
1228	3 1	7.91	15-0	571	18.2	50	75.6	chear NE NO
1230	4	7.95	15.9	569	17.1	25	69.1	clear NS NO
1235	5							
Comments						· · · · · · · · · · · · · · · · · · ·		
	_				· · · ·			
			Pumpir	ng Rate D	Depth of		U 1 - 1 - 10	
	Method		in GPM	1 <u> </u>	quip. in Feet		ls dry? Atrio.of.c	Yes No X)
Purge	SUD. PU	mp	0.2	GPM	22.0,	- Pu		isposal Method/Volume
Sample	11		· ·	(**		rms	
	-							
) Sampling	Data							
Bottle Type	# of Containe	ers Analys	205		Broconi	Filter	Total nu	imber of Bottles <u>3</u>
amber		TP	+-		U U	Filter		
Voc	3	VO	5		ũ_	N		te Sample I.D.
				·			Field Bla	e Sample I.D.
L					<u> </u>			
Field Equ	ipment				7	ype/Bran	d/Serial N	lo./Material Units
Pump Type	/Tubing Typ	e Proc	ectiv	re Se	5. RET	emp/pH/E.(C. meter	YSI Pro DSS
Bailer Type						/ater Level		(diast

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3

56 Location MMB - 19419-04 Date 9/10/20 Project / Client Well Development HMW-175:25 gal (16gol theoretical) HMW-185 = 20 gal (16 gal theoretical) HMW-198:25 gal (17 gas theoretical) HHW-208-12 gal (12 gal theoretical) - pumped well day 5 times - still furbid HMW-201A = 35 gal (32 theoretical)

0.(63 5al



Well ID Date Well Sept SET thickness lossing vol Nuthed Deulgell Dotes DTW DES opened well + 33.06 a few on 4,01-BD Bev. 22.16 allowed to equil. 10920-0944; initially v.turbid, DMW-45-5/3/17/2020/ 33' pump 1.76 30,721 53,121 -Tom 7 gray; strong petto, oder, NS; became less forbid after a few mins; well drict 7.5 gal Amping 7.5 gal.

Well Development Data

Project MERCER MEGABLOCK Field Rep. JJ54 VANDER JAZ

Job No. <u>1940904</u> Date <u>10/21 - ' /</u>

WELL	DATE	WELL	BEFORE	DEVELOPME	AFTER	CASING VOLUME	METHOD OF DEVELOPING	DEVELOPING VOLUME	COMMENTS
NUMBER	DEVELOPED	IN FEET	DEPTH TO WATER IN FEET	DEPTH TO SEDIMENT IN FEET	SEDIMENT THICKNESS IN FEET	INGALLONS		IN GALLONS	
DM 105	10/21/20 10/22/20	55	32.41/ 39.81	54.71/ 54.80	0.20	36	SO BAILER 12 GANO-S FUMP	34	PUMP ISSUES RESULTED IN HONO BAILING N 10/21 THEN DUMPNY 10/22
DNU	10/23/20	50 .	32-14/	49.90/ 49.98	0.10/	2-8	24 SS BAILER 24.5 GALLON	28	BAILED IS GALLON'S WITH SS BAILER BEFORE WATER LEVEL FELL TO 49.20
IZS	19/20/20	53	34.61/ 17.44	46.84 49.95	3.15	1.9.	PUMP Z. 5 GHUD SS BAILER 19 GALLON	19	PUMP ISSUES RESULTED IN HOUD BAILING RENAINTY VOLUME
DAW	10/23/20	37	34.25/	36.21	0.99	0-8	SS BOLER 9 JALLOS	9	
M1535-25	10/30/20	40	32.91	39.90 39.98	0-10/	l-1 -	55 BAILET 11 GALLOT	· · · //	
2	4 1							27 83 1	
					-		5 ⁰¹		* 1 N *
			X	*	ž		~		
				-					

-	WELL	DATE	WELL DEPTH	BEFORE	DEVELOPMEN	AFTER	CASING VOLUME	METHOD OF DEVELOPING	DEVELOPING VOLUME	COMMENTS
	NUMBER	DEVELOPED	IN FEET	DEPTH TO WATER IN FEET	DEPTH TO SEDIMENT IN FEET	SEDIMENT THICKNESS IN FEET	IN GALLONS	DEVELOPING	IN GALLONS	
M	314	3/10/20	50	39.8/25.68	49.15	21	1.30	plastic (SS) + plastic pantr	30	arnued offer pumping began, N5gal each, let recharge for
Nr.	125	3/6/20	40	27.53/23.15	34.7/34.20	". 	1.05	plashe puni	30	- 15-20min + measured DTW/DT.
ŴΜ	145 *	3/6/20	ýD	31.12/ 22.82	33.85/		0.29	bailer + plostic	10 -	A 33 PH, standed bailing indust. Silica sand + Bund preve of PUC in bailer. Seems as though asing is boother + sand Alud well + water draining May need to reidall
MI	v.le	3/6/20	50	28.27/ 28.95	42.3/		2.37	plastic	25	
M	WSIA	3/6/20	50	37.63/ 38.05	49.65		1.71	plasting	<5	bailed day after 2 boods and 55 bank
			· · · ·		a 4					
							* d * d			
	1911 - 1									

Hart Crowser, Inc

Drums added 319/20 DMW 2S "S"(++++() 601 Dex HC. Vac #17 MBGW-12 Soil #2 (13-25) DMW-6.2 DMU-6 4 DMW.25 DMW-63 DMW G (

MMB Well Develoment

1

	Be	fore Developme	nt				A	fter Developr	nent	
Well ID	DTW (ft, from temp TOC)	DTS (ft, from temp TOC)	DTS - DTW (ft)	1 Casing Volume (gallons)	10 Casing Volumes (gallons)	Date Developed	DTW (ft,	DTS (ft, from TOC)	DTS - DTW (ft)	Notes
HMW-5IB	35.06	63.58	28.52	4.65	46.49	4-Mar	34.46	63.33		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-6IA	32.79	50.4	17.61	2.87	28.70	4-Mar	34.08	51.7		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-61B	34.67	60.3	25.63	4.18	41.78	4-Mar	35.11	64.18		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-6D	42.94	90.42	47.48	7.74	. 77.39	6-Mar	46,74	93.42	îi	Initially very turbid (gray); at end of development, 85 gallons total purged, slightly turbid (gray)
HMW-7IB	37.38	63.1	25.72	4.19	41.92	4-Mar	35.61	64.38		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-8IB	30	60.8	30.8	5.02	50.20	4-Mar	36.78	62.96		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-9S	34.92	38.99	4.07	0.66	6.63	5-Mar	32.92	39.12		Bailed 15 gallons 3/4; initially very turbid (gray); Total of 23 gallons purged; Fairly clear at end of development
HMW-9IA	33.94	51.18	17.24	2.81	28.10	5-Mar	34.1	51.25		Initially very turbid (gray); 43 gallons purged total; After purging, turbid (gray)
HMW-9IB	36.55	71.41	34.86	5.68	56.82	5-Mar	36.66	71.75		Initially very turbid (gray); bailed dry after 15 gallons, recharged 3-5 gallons every 15 minutes; After purging, turbid (gray)
HMW-9D	43.04	95.06		8.48	84.79	6-Mar	43.40	93.36		Started development on 3/5, pump blew a fuse, so need to finish 3/6; at end of development, 85 gallons purged total, appears clear
HMW-10S	25.95	38.12		1.98	19.84	9-Mar	20.57	38-12	· · · · · · · · · · · · · · · · · · ·	init v tubid. (It bown /gran), purg 30 gas still v jubid
HMW-10D	434 39.38	91.6	52.22	8.51	85.12	9-Mar	39.90	91.55		piter to lod a) philar & S gal not to tubio
HMW-11S	36.28	41.09	4.81	0.78	7.84		1 C -			Initially very turbid (gray-brown); at end of development 8 gallons total purged, slightly turbid (gray-brown)
HMW-11IB	34.43	60.81	26.38	4.30	43.00	6-Mar	33,2	59.92		Initially very turbid (gray-brown); at end of development 45 gallons total purged, slightly turbid (gray-brown)
Boring ID	DTW (ft, from	DTS (ft, from		1 Casing Volume	3 Casing Volumes	Date				

Boring ID	DTW (ft, from temp TOC)	DTS (ft, from temp TOC)	DTS - DTW (ft)	Volume (gallons)	3 Casing Volumes (gallons)	Date Sampled		Notes
MBB-11	34.69			0.18	0.55		2	TOC flush with ground surface; Bailed dry on 3/5 (very sludge-y), left to recharge
MBB-12	25.72	00.02	0.0	1.61	4.84	6-Mar		TOC ~3ft above ground surface
MBB-13	25.76	35.68	9.92	1.62	4.85			TOC ~1in above ground surface
MBB-14	34.16	35.49	1.33	0.22	0.65			TOC ~1in below ground surface; ~4in of gray sediment on water level tape; Bailed dry on 3/5 (very sludge-y), left to recharge
MBB-15	26.5	35.87	9.37	1.53	4.58	6-Mar		TOC flush with ground surface

¥HMW108-noticed pressurfeed when getting post dev. measurements. Dev'd @11:00, measured post @1723 MMB Well Develoment

WIND WOULD	Bet	fore Developmer	nt				Af	ter Developr	ment	
	DTW (ft, from	DTS (ft, from	DTS - DTW (ft)	1 Casing Volume (gallons)	10 Casing Volumes (gallons)	Date Developed	DTW (ft,	DTS (ft, from TOC)	DTS - DTW (ft)	Notes
Well ID	temp TOC)	temp TOC)		(galions)	(ganons)	Developed				
HMW-5IB	35.06	63.58	28.52	4.65	46.49	4-Mar	34.46	63.33		Initially very turbid (gray); after purging slightly less turbid (gray)
IMW-61A	32.79	50.4	17.61	2.87	28.70	4-Mar	34.08	51.7		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-61B	34.67	60.3	25.63	4.18	41.78	4-Mar	· 35.11	64.18		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-6D	42.94	90.42		7.74	77.39	6-Mar	46,74	93.42		Initially very turbid (gray); at end of development, 85 gallons total purged, slightly turbid (gray)
HMW-71B	37.38	63.1		4.19	41.92		35.61	64.38		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-8IB	30	60.8		5.02	50.20	4-Mar	36.78	62.96		Initially very turbid (gray); after purging slightly less turbid (gray)
HMW-95	34.92			0.66	6.63	5-Mar	32.92	39.12	· · · · · ·	Bailed 15 gallons 3/4; initially very turbid (gray); Total of 23 gallons purged; Fairly clear at end of development
HMW-9IA	33.94			2.81	28.10		34.1	51.25		initially very turbid (gray); 43 gallons purged total; After purging, turbid (gray)
HMW-9IB	36.55				56.82					Initially very turbid (gray); bailed dry after 15 gallons, recharged 3-5 gallons every 15 minutes; After purging, turbid (gray)
HMW-9D	43.04		5 52.02	8.48	84.79	6-Mar	43.40	93.36		Started development on 3/5, pump blew a fuse, so need to finish 3/6; at end of development, 85 gallons purged total, appears clear
HMW-10S	25.95			1.98	19.84	9-MM	26.57	- 38-12		init. V tollaid. (14 propon lanch), our a 3Dage still y fight
HMW-10D	434 39.38				85.12		39.90	91.55		interticial a lowing 22 Seal not to the
HMW-115	36.28		4.81	0.78	7.84	,	26 4	39.11		Initially very turbid (gray-brown); at end of development 8 gallons total purged, slightly turbid (gray-brown)
HMW-11IB	34.43				43.00) <u>6</u> -Mai	33,2	59.92		Initially very turbid (gray-brown); at end of development 45 gallons total purged, slightly turbid (gray-brown)
	· _ ·-	·	[1 Casing	3 Casing	1				
	DTM III from	DTC /ft famme		Maluma	Volumos	Data	1	1		

	DTW (ft, from	DTS (ft, from		1 Casing Volume	3 Casing Volumes	Date	ــــ
Boring ID	temp TOC)	• •	DTS - DTW (ft)	(gallons)	(gallons)	Sampled	 Notes
							 TOC flush with ground surface; Bailed dry on 3/5 (very sludge-y), left to
MBB-11	34.69	35.81	1.12	0.18	0.55		recharge
MBB-12	25.72		9.9	1.61	4.84	6-Mar	TOC ~3ft above ground surface
MBB-13	25.76	35.68	9.92	1.62	4.85		TOC ~1in above ground surface
MBB-14	34.16	35.49	1.33	0.22	0.65		TOC ~1in below ground surface; ~4in of gray sediment on water level tape; Bailed dry on 3/5 (very sludge-γ), left to recharge
MBB-15	26.5	35.87	9.37	1.53	4.58	6-Mar	TOC flush with ground surface

¥HMW108-noticed pressurfeed when getting post dev. measurements. Dew'd @11:00, measured post @1773

	Grou	Indwa	ater S	amp	ling Da	ata - V	Vell I.I	D.	DMW-1S
	Project			615 De	xter				Date/Time Sampled March 18 2020 0945
	Job No.			19409-	04-05			-	Tidally Influenced Yes No x
	Project	Manager		M. Dag	el	_		-	Well Depth in Feet 28.2 (bgs)
	Field R	eps.		B. Dozi	er/B. Lytle	k). Higgir	s/A. Naka	ahara	
	1) Pui	rging D	ata/Fie	ld Mea	asureme	ents: A	ll Meası	ıreme	ents Relative to Top of Casing (TOC) 70C 15 0.29 1365
	Well De	epth		28.2 (b				-	Casing Volume in Gallons 1, 13
	Depth o	of Sedime of Water (22.9		: :	±	[2" diameter = x 0.163 gal/ft]Purge Volume in Gallons3.38
	(DTS -	DTW)			6.91			-	Actual Purge in Gallons <u>1.5</u>
	Time	No. of Gallons Purged	pН	Temp in °C	ms/cm Conduct	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand
START	0915	0.1	7.22	14.3	407.1	3.37	28.23		INITIALLY CLEAR, NS, STEWNG SOLVENT/PETROLAM-LIKE ODOR
	0 923	0.5	7.27	14.4	409.2	1.64	32.16		CLOAR, NS, " " "
:	0929	1.0	7.29	14.2	410.5	1,59	35,88	93,7	
				_					
ب_									
SMPL	0945	1.5	7.31	13.8	414.0	1.61	8.20	102.7	CLEAR, NS, STRONG SOLVENT/PERROWSM-LIKE UD OR
	Comm	ents 🙆	0924 R	eouceo p	umpine ra	ne to con	werping	אומיו	O 0130 REDUCED FUND RATE PULTHEN

Bails dry?

At no. of Casing Volumes

Purge Water Disposal Method/Volume

Total Number of Bottles

Duplicate Sample I.D.

Rinseate Sample I.D.

Field Blank I.D.

Yes

Drum left on site

7

	Method	Purging Rate in GPM	Depth of Equipment in Feet
Purge	POPLISTALTIL	0.03	23.98' втос
Sample	ι	0.03	11

2) Sampling Data

Bottle Type	No of Containers	Analyses	Perserv.	Filter
Botalo Type		NWTPH-Gx,		
VOA	4	BTEX/HVOCs	нсі	no
0.5 L				
Amber	1	NWTPH-Dx	no	no
		Total MTCA		
0.5 L poly	1	Metals	HNO3	no
		Dissolved MTCA		
0.5 L Poly	1	Metals	HNO3	yes

3) Field Equipment

3) Field Equipment		Type/Brand/Serial	No./Material/Units	
Pump Type/Tubing Type	PERISTALTIL/PE	Temp/pH/E.C./D.O	451 055	2
Bailer Type	an and the second s	Water Level Probe	WATERLINE	
Filter Type	0.45 µm	Other		
4) Well Conditions	OK X Not OK	Explain	HC Standards/Field Forms/GW-W	ell ID

	Project			615 De				-	Date/Time Sampled March 18 2020 115 2 [1157 France] No x 0 Mw-				
	Job No.			19409-0				-					
	-	Manager		M. Dag		<u> </u>		-	Well Depth in Feet 34.7 a Screened Interval in Feet 24.7 to 34.7				
	Field R							-					
	1) Pui	rging D	ata/Fie	ld Mea	asureme	ents: Al	l Meası	ireme	nts Relative to Top of Casing (TOC) ஒட் மு. 33' மே 5				
	Well De	epth		34.7				_	Casing Volume in Gallons 1-9				
	Depth o	of Sedime	ent (DTS)	in Feet	34	. 35			[2" diameter = x 0.163 gal/ft]				
	Depth c	of Water ((DTW) in	Feet	22.8	9		_	Purge Volume in Gallons 5.6				
	(DTS -	DTW)			11.4	16		-	Actual Purge in Gallons I-5				
		No. of			M5/cm	Diss	. <u> </u>	<u>r</u>	· · · · · · · · · · · · · · · · · · ·				
12	Time	Gallons Purged	рН	Temp in °C	Conduct i n mS/c m	Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand				
P ALT		0, 1	7.20	14.6	287.0	5.47	11,70	242.1					
<i>F</i> 1		0.5	7.06	14.7	293.5	5,06	31.80	259.0	INITULLY CLEAR, NO, NS				
	1118_	1.0	7.07	14.3	294.2	4.98	8.87	266.3	CLEAR, NO, NS				
	1131	1.0	7.01	11.2	L19.L	-1.10	8.87						
	++s												
Ч								ļ					
SMPL	1152	1.5	7.09	14.3	293.3	4.89	4.21	275.5	CUTAR, NO, NS				
	Comm	ents	@ 1118	DELLEAS	ten pumpun	PATE .	@1225	Pum	POUT OF BATTERY, 2ND POLL PUMP DEAD THOUGH IT CHURLED				
	ova	LNIGHT,	@1255	Resume	OD SAMPLI	NB (AM	BOL BOT	nes	\$ 0 0645, mm 04 W - 29 \$ HAL W - 2005).				
				1		1		7					
			thod		ng Rate in SPM		th of		Bails dry? Yes No X				
		ivie	thod			29.7	nt in Feet	{	Bails dry? Yes No /				
	Purge	PERLISTAN	InL	0.	02	29,7 23,9 BL	STOC		At no. of Casing Volumes				
		W			0,02	"			ac				
S	Sample			1				J	Purge Water Disposal Method/Volume Drum left on site				
	2) Sa	mpling	Data										
	2) 04		Data				<u> </u>	7					
Вс	ttle Type	No of Co	ontainers		alyses	Perserv.	Filter		Total Number of Bottles14				
	<u>م</u>			NWTP			200						
	DA 5 L	<u> </u>	8		TVUUS	HCI	no	-					
	nber		2	NWTP				-	Duplicate Sample I.D. DMW-200S				
1	5 L poly		_	Total MTCA 2 Metals HNO3			no		SAMPLING TIME @ 1157				

Field	Blank	I.D.	

Rinseate Sample I.D.

Type/Brand/Serial No./Material/Units

Pump Type/Tubing Type Bailer Type	PERLISTALTIC / PE	Temp/pH/E.C./D.O Water Level Probe	451 055 WATERLINE
Filter Type	0.45 MM	Other	
4) Well Conditions	OK 🔨 Not OK	Explain	HC Standards/Field Forms/GW-Weil10

3) Field Equipment

0.5 L Poly

Dissolved MTCA

HNO3

yes

2 Metals

	Grot	roundwater Sampling Data - Well I.L						D. DMW-3IA				
	Project Job No.			615 De		<u></u>		Date/Time Sampled March V 2020 237 Tidally Influenced Yes No x				
		Manager		M. Dag				Well Depth in Feet 48.75				
	Field Re	-				/J. Hiaain	s/A. Nakaha	ara Screened Interval in Feet 38.75 to 48.75				
								ements Relative to Top of Casing $(TOC) \rightarrow 2 - 0.2 - 9^{1}$				
	Well De	epth		48.75				Casing Volume in Gallons 3-96				
		of Sedime	nt (DTS)		49.61			[2" diameter = x 0.163 gal/ft]				
	Depth of Water (DTW) in Feet $25.3\lambda'$			321		Purge Volume in Gallons						
	(DTS - DTW)			24				Actual Purge in Gallons				
art 1146	Time	No. of Gallons Purged	pН	Temp in °C	Conduct	Diss Oxygen in mg/L	Turbidity O in NTU in	RP mV Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand				
	1155	1.0	7.42	16.3	492.5	0.54	6.30 5					
	1207	2.0	7,06	16.3	536	0.20	5.10-	39.3 cleart, NO. NS				
	1917	3.0	7.17	16.2	597	0.18	3.31 -	56.0 4 u L				
	1228	4.0			606	0.15	2.88-	68.3 11 11 11				
APL		5.0	7.21	16.2	614	0.14	2.35 -	72 1 11 11				
SMPL			1 - 0 - (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		001	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
er.		· ·	l		I		I I					
	Comm	ients										
		Met			Purging Rate in Depth GPM Equipment i			Bails dry? Yes No				
F	Purge	Monsoo Sub pi		D.	•	39	31	At no. of Casing Volumes				
s	ample	11		l V i i i			(Purge Water Disposal Method/Volume Drum left on site				
	2) Sai	mpling	Data									
Bot	ttle Type	No of Co	ontainers			Perserv.	Filter	Total Number of Bottles 7				
Bot VO		No of Co		An: NWTPI BTEX/I	⊣-Gx,	Perserv. HCI	Filter	Total Number of Bottles7				
V0 0.5	DA I L	No of Co	4	NWTPI BTEX/I	H-Gx, HVOCs	HCI	no					
V0 0.5	A	No of Co	4	NWTPI BTEX/I NWTPI	H-Gx, HVOCs H-Dx			Total Number of Bottles 7 Duplicate Sample I.D.				
VO 0.5 Am	DA I L	No of Co	4	NWTPI BTEX/I NWTPI Total M Metals	H-Gx, HVOCs H-Dx ITCA	HCI	no					
VO 0.5 Am 0.5)A i L iber	No of Co	4	NWTPI BTEX/I NWTPI Total M Metals	H-Gx, HVOCs H-Dx	HCI no HNO3	no no					
VO 0.5 Am 0.5	A i L iber i L poly	No of Co	4	NWTPI BTEX/I NWTPI Total M Metals Dissolv	H-Gx, HVOCs H-Dx ITCA	HCI no HNO3	no no	Duplicate Sample I.D.				
VO 0.5 Am 0.5	PA i L iber i L poly	No of Co	4	NWTPI BTEX/I NWTPI Total M Metals Dissolv Metals	H-Gx, HVOCs H-Dx ITCA	HCI no HNO3	no no	Duplicate Sample I.D.				

Water Level Probe

Other

Explain

Jpc	
	and the second se
	D.45-MM
s	OK Not OK

4) Well Conditions

Bailer Type

Filter Type

HC S	tandards/	Field Fo	orms/G\	W-WeilTD

estir

UP.

VR-

					-		Vell I.I					
	Project			615 De	xter				Date/Time Sampled	March 18	2020	
	Job No			19409-	04-05			_	Tidally Influenced	Yes		Nox
	Project	Manager	•	M. Dag	el			_	Well Depth in Feet	331		<u></u>
	Field R	eps.		B. Dozi	ier/B. Lytle	J. Higgin	s/A. Nak	ahara	Screened Interval in Fee	et 23'-3:	3'	
	1) Pul	rging D	ata/Fie	eld Mea	asureme	ents: Al	ll Meası	ureme	ents Relative to Top	of Casing (TO	C)	
	Well De	epth			33'				Casing Volume in Gallo	ns	1,74	
	Depth o	of Sedime	ent (DTS) in Feet	32.8	0'		-	[2" diameter = $x 0.163$			
	Depth o	of Water ((DTW) ir	Feet	22.	5'			Purge Volume in Gallon	s	5.2	
	(DTS -	DTW)			10.65			-	Actual Purge in Gallons			
	Time	No. of Gallons Purged	рН	Temp in °C	in-mS/cm	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recov			mulated Cilt/Can
eT				16.3	444.2		51.32	1				
-	1445	0.1	7.58		791.6	5,39	5450	211.7	IN ITIALLY CLEAR, N.	S, MODELATE	SOLVENT	-LIKE DOOR
				· ·							2	
										-		
SMPL						1	<u> </u>	+	-			
S												
									PASSED 48 HUM			
		Met	thod	Purgir	ng Rate in GPM	Dep	oth of ent in Feet]	Bails dry?	Yes		No
 F	Purge	Met PERLIST		Purgir	ng Rate in	Dep	oth of ent in Feet]		Yes		
	² urge ample	PERLIST		Purgir	ng Rate in	Dep Equipme	oth of ent in Feet]	Bails dry?	Yes		
	ample	PERLIST	ALT16	Purgir	ng Rate in	Dep Equipme Z 8 ¹ (oth of ent in Feet]	Bails dry? At no. of Casing Volume	Yes		No
S	ample	PERLIST I mpling	ALT16	Purgir	ng Rate in GPM	Dep Equipme Z 8 ¹ (oth of ent in Feet]	Bails dry? At no. of Casing Volume Purge Water Disposal M	Yes		No
S Bo	ample 2) Sai	PERLIST I mpling	Data	Purgir	ng Rate in GPM alyses H-Gx,	Dep Equipme Z 8 ¹ (1(Perserv.	oth of nt in Feet 370 c Filter]	Bails dry? At no. of Casing Volume Purge Water Disposal M	Yes		No
S	ample 2) Sa ttle Type	PERLIST I mpling	Data	Purgir	ng Rate in GPM alyses H-Gx, HVOCs	Dep Equipme Z 8 ¹ (oth of ent in Feet 3 το ς]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num	Yes		No
S Bo VC 0.5	ample 2) Sa ttle Type	PERLIST I mpling	Data	Purgir C NWTP BTEX/I NWTP PAHs	ng Rate in GPM H-Gx, H-Gx, HVOCs H-Dx,	Dep Equipme Z 8 ¹ (1(Perserv.	oth of nt in Feet 370 c Filter]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num	Yes		No
Bo VC 0.5 Arr	ample 2) Sa ttle Type A	PERLIST I mpling	Data	Purgir C An NWTP BTEX/I NWTP PAHs Total M Metals	ng Rate in GPM halyses H-Gx, HVOCs H-Dx, MTCA	Dep Equipme Z 8 ¹ ((Perserv. HCI	Filter]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num	Yes		No
S Bo VC 0.5 An 0.5	ample 2) Sai ttle Type A b L hber	PERLIST I mpling	Data	Purgir C An NWTP BTEX/I NWTP PAHs Total M Metals	ng Rate in GPM alyses H-Gx, H-Ocs H-Dx, MTCA	Dep Equipme Z 8 ¹ ((Perserv. HCl no	Filter]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num	Yes Aethod/Volume ober of Bottles Sample I.D.		No
S Bo VC 0.5 An 0.5	ample 2) Sai ttle Type A L ber L ber L poly	PERLIST I mpling	Data	An NWTP BTEX/I NWTP PAHs Total M Metals Dissolv	ng Rate in GPM alyses H-Gx, H-Ocs H-Dx, MTCA	Dep Equipme Z 8 ¹ ((Perserv. HCI no HNO3	Filter]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num Duplicate Field Blan	Yes Aethod/Volume ober of Bottles Sample I.D.		No
S Bo VC 0.5 An 0.5	ample 2) Sai ttle Type A L ber L poly L Poly	PERLIST I mpling	Data	Purgir C An NWTP BTEX/I NWTP PAHs Total M Metals Dissolv Metals	ng Rate in GPM alyses H-Gx, H-Ocs H-Dx, MTCA	Dep Equipme Z 8 ¹ ((Perserv. HCI no HNO3	Filter]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num Duplicate Field Blan	Yes Pes Method/Volume Inber of Bottles Sample I.D. k I.D. Sample I.D.	Drum	No
S Bo VC 0.5 0.5	ample 2) Sai ttle Type A L ber L poly L Poly 3) Fie	Percest mpling No of Co	Data Data Dontainers 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Purgir C An NWTP BTEX/I NWTP BTEX/I NWTP PAHs Total M Metais Dissolv Metais	ng Rate in GPM alyses H-Gx, H-OCs H-Dx, ATCA /ed MTCA	Dep Equipme Z & ' ((Perserv. HCI no HNO3 HNO3	oth of ent in Feet 370 c Filter no no yes]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num Duplicate Field Blan Rinseate S Type/Brand/Serial	Yes Method/Volume aber of Bottles Sample I.D. k I.D. Sample I.D.	Drum //Units	No
S Bo VC 0.5 0.5	ample 2) Sal ttle Type A L ber L ber L poly b L Poly 3) Fie Pump	Per-IST	Data Data Dontainers 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Purgir C An NWTP BTEX/I NWTP BTEX/I NWTP PAHs Total M Metais Dissolv Metais	ng Rate in GPM alyses H-Gx, H-OCs H-Dx, ATCA /ed MTCA	Dep Equipme Z 8 ¹ ((Perserv. HCI no HNO3	oth of ent in Feet 370 c Filter no no yes]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num Duplicate Field Blan Rinseate S Type/Brand/Serial Temp/pH/E.C./D.O	Yes Method/Volume aber of Bottles Sample I.D. k I.D. Sample I.D. Mo./Material	Drum /Units	No
S Bo VC 0.5 0.5	ample 2) Sai ttle Type A L ber L poly L Poly 3) Fie	Percist mpling No of Co d d Ed Equi Type/Tu Type	Data Data Dontainers 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Purgir C An NWTP BTEX/I NWTP BTEX/I NWTP PAHs Total M Metais Dissolv Metais	PERCIST	Dep Equipme Z & ' ((Perserv. HCI no HNO3 HNO3	oth of ent in Feet 370 c Filter no no yes]	Bails dry? At no. of Casing Volume Purge Water Disposal M Total Num Duplicate Field Blan Rinseate S Type/Brand/Serial	Yes Method/Volume aber of Bottles Sample I.D. k I.D. Sample I.D.	Drum /Units	No

	4)	Well	Conditions
--	----	------	------------

<u> </u>	JUM	
	/	
ОК	X	Not OK

Explain

HC Standards/Field Forms/GVV-VVell ID

HARTCROWSER Groundwater Sampling Data - Well I.D. __PMW-45

	WELL LOCA			· ·			~		
	(e.g., 20' N PROJECT		er of building	- /		DAT			3/18/2020 BL 3/19/2020
	JOB NO.		409-04				E/TIME SAM		1.1-
				DAGEL		_			YES <u>NO K</u>
	PROJECT M						L DEPTH IN		35
~	FIELD REPS	· <u>15</u>	LAILE	TUE		SCR	EENED INTI	ERVAL IN F	EET 23'- 33'
	Purging L	Data/Field		ements: /	All Measurer	ments Relativ	ve to Top of	Casing (TO	C)
	WELL DEPT	н	33'			CAS	ING VOLUM	IE IN GALLO	ons 1.7
	DEPTH TO S	SEDIMENT	(DTS) IN FE	ET 32	.gu	[2	" diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]
	DEPTH TO V	WATER (DT	W) IN FEET	- 22	28'	PUR	GE VOLUME	E IN GALLO	NS 5.1
	(DTS – DTW	')	ŀ	0.52			UAL PURGE		
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct	Diss. Oxygen in <u>rrg/L</u>	NTV Turbidity	ORP	Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
WT	1456	0.1	7.73	15.2	412.6	5.89	35.61	245.5	WITHALY CLEAR, SUL AT S'LVONT-LIKE
1513	-0313 BL	0.5	7.75	15.0	416.4		35.23		CLEAR NS, MODERATE SO LVENT-LIKE
		1.0		14.9	401.7	5.17			CLEAR NS MEDERATE SOLVENT-LIKE
		1.0	7.69	11.1	101.7	5.50	21.07	268.3	000
	1532				1				
sample:	1 * 155 8	1.5 @ 1515	7.69 RODULO PE	15.) MP(1126 (2.117)	406.0 € To SEE 1	4.97 F NON TUR	19.51 2019157 De	244.6	w, v, v
	1 * 155 8	. @ 1515 	ROONLO PE		<u>5</u> ™ 5€ g Rate Do E	F Nor TVA	Bo	ils dry?	Yes No
	1 * 155 8	@ 1515	ROONLO PE	Pumpin	<u>5</u> ™ 5€ g Rate Do E	E Nor TV epth of quip. in Feet	Bo	ills dry?	Yes No
	Comments	. @ 1515 	ROONLO PE	Pumpin	<u>5</u> ™ 5€ g Rate Do E	F Nor TVA	Bo	ills dry? At no. of c	Yes No
sample:	Tr 155 8 Comments Purge	e ، ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5	ROONLO PE	Pumpin	<u>5</u> ™ 5€2 g Rate Do E	E Nor TV epth of quip. in Feet	Bo	ils dry? At no. of c rge Water D DRVM	Yes No casing volumes Disposal Method/Volume EFT on SITE
sample:	Comments Purge Sample	e ، ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5	<i>Л.Сони</i> ри -771_	Pumpin in GPM	<u>5</u> ™ 5€2 g Rate Do E	E Nor TV epth of quip. in Feet	Bo	ils dry? At no. of c rge Water D DRVM	Yes No casing volumes Disposal Method/Volume
sample:	Tr 155 g Comments Purge Sample Sampling	e ، ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5 ، 5	<i>תפטופיט</i> פנ דור iners Anal	Pumpin in GPM	<u>5</u> ™ 5€2 g Rate Do E	epth of quip. in Feet	28191177 De Bo	ils dry? At no. of c rge Water D DRVM L Total no	Yes No casing volumes Disposal Method/Volume EFT on SITE umber of Bottles
sample:	Tr 1558 Comments Purge Sample Sampling Bottle Type V 04 0.5 L And	С 1515 Меthod Рекл 5742	ncould pe	Pumpin in GPM yses Ptl - Gx, 51 Ptl - Dx,	g Rate Di E E E E C C C C C C C C C C C C C C C	F Nor TV epth of quip. in Feet 28 11 Preserv. H C I ND	Bo	ills dry? At no. of c prewater D prom L Total nu Duplica	Yes No casing volumes Disposal Method/Volume EFT ON SITE umber of Bottles te Sample I.D
sample:	Tr 1558 Comments Purge Sample Sampling Bottle Type V 04 0.5L Ant 0.5L Pou	Method Рекл 5742 Data # of Contai 4 4 4 7	<i>п. сооче</i> ре -77 с -77	yses Pt - Dx, MTEA A	E TO SEE	F Nor Trade epth of quip. in Feet 28 11 Preserv. H C1 NO H NO 3	281917 0e Bo Pu Filter No N0 N0	ils dry? At no. of c rge Water D D & M Total nu Duplica Field Bi	Yes No casing volumes Disposal Method/Volume EFT ON SITE umber of Bottles te Sample I.D lank I.D
sample:	Tr 1558 Comments Purge Sample Sampling Bottle Type V 04 0.5 L And	Method Рекл 5742 Data # of Contai 4 4 4 7	<i>п. сооче</i> ре -77 с -77	Pumpin in GPM yses Ptl - Gx, 51 Ptl - Dx,	E TO SEE	F Nor TV epth of quip. in Feet 28 11 Preserv. H C I ND	Filter NO NO	ils dry? At no. of c rge Water D D & M Total nu Duplica Field Bi	Yes No casing volumes Disposal Method/Volume EFT ON SITE umber of Bottles te Sample I.D
sample:	Tr 1558 Comments Purge Sample Sampling Bottle Type V 04 0.5L Ant 0.5L Pou	Method Perel 5742	<i>п. сооче</i> ре -77 с -77	yses Pt - Dx, MTEA A	E TO SEE	Preserv. H CI ND H ND H ND H ND H ND H ND H ND H ND H	2819117 De Bo Pu Filter No NO NO NO NO NO NO NO NO NO NO	ils dry? At no. of c rge Water D D & VM Total no Duplica Field Bi Rinseat	Yes No casing volumes Disposal Method/Volume EFT ON SITE umber of Bottles te Sample I.D lank I.D
sample:	$\frac{1}{1558}$ Comments Comments Sample Sample Sampling Bottle Type V 0A 0.5 L AnE 0.5 L Pot	С 1515 Меthod Ре. С. 15742	<u>Лория</u> ре ————————————————————————————————————	yses Pt - Dx, MTEA A	E TO SEE	F Nor TVA epth of quip. in Feet 28 11 Preserv. H C1 NO H N03 H N03 T	ZBI Ø IFY Ø e Bo Pu Filter No NO NO NO NO NO NO Y65 Ype/Bran	ills dry? At no. of c rge Water D DRVM L Total nu Duplica Field Bi Rinseat	Yes No casing volumes
sample:	T^* 15 5 8 Comments Purge Sample Sample Bottle Type $\sqrt{04}$ $0.5L$ $0.5L$ $0.5L$ Field Equition	Method Perel 57 Perel 57 V V Data # of Contai # of Contai Y I Y I Y I Y I Y I Y I Y I Y I Y I Y I Y I Y I Y I I I J I I I I I I I I I I I I I I I I I I	<u>Лория</u> ре ————————————————————————————————————	yses Pumpin in GPM yses PH-Gx, 61 PH-Dx L MTEA A	E TO SEE	F New TW epth of quip. in Feet 28 11 Preserv. H C1 NO HN03 HN03 T	2819117 De Bo Pu Filter No NO NO NO NO NO NO NO NO NO NO	ils dry? At no. of c rge Water D D & VM L Total nu Field Bi Rinseat d/Serial N C. meter	Yes No casing volumes

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 H_{1}

	Grou	illuva	ner 5	amp	ling Da	ata - V	Vell I.I	D.	DMW-5IA		
	Project			<u>615</u> De	xter			_	Date/Time Sampled	March 18	2020
	Job No.			19409-	04-05			-	Tidally Influenced	Yes	No x
	Project	Manager		M. Dag	el			-	Well Depth in Feet	49.6	
	Field R	eps.		B. Dozi	er/Ø. Lytle) Higgin	s/A. Naka	ahara	Screened Interval in Feet	39.6	i to 49.6
	1) Pui	rging Da	ata/Fie	ld Mea	asureme	ents: Al	ll Meası	ireme	ents Relative to Top of	f Casing (TO	C)
	Well De	epth		49.6				-	Casing Volume in Gallons	s <u> </u>	.9
	Depth c	of Sedime	nt (DTS)) in Feet				-	[2" diameter = x 0.163 g		
	-	of Water (DTW) in	Feet	38.00	1		-	Purge Volume in Gallons		5,7
	(DTS - I	DTW)			11.66'			-	Actual Purge in Gallons		9
	T !	No. of Gallons		Temp in ^o C	Conduct	Diss Oxygen	Turbidity	ORP			
25	Time	Purged	pH		in_mS/cm 380-5	in mg/L	1		Comments: Quality, Recover		een, Accumulated Silt/Sand
-1	1606	0-1	8,77	15.9	280-2	1.53	25.90	130.0	INITIALLY CLEAR, NO	0, NS	
		· · ·									
							-				
										· · ·	×
SMPL							·				<u> </u>
				Purgir	ig Rate in	Dep	th of				
F	Purge	Meth Monyson SS Su	n	-	3PM		nt in Feet	-	Bails dry? At no. of Casing Volumes	Yes 🗶	N₀ 0.5
	Purge ample	monyoo	n	-	SPM	Equipme 44.61				;	
	ample	Markoo 35 Su	n 1B	-	SPM	Equipme 44.61			At no. of Casing Volumes	;	0.5
Si	ample	1707500 55 50 11	n B Data		SPM	Equipme 44.61]	At no. of Casing Volumes Purge Water Disposal Me	;	0.5
Sa	ample 2) Sai tle Type	mpling	Data	An	alyses H-Gx,	Equipme 44.61 14	nt in Feet		At no. of Casing Volumes Purge Water Disposal Me	ethod/Volume	Drum left on site
Bot VO	ample 2) Sar tle Type A L	mpling	Data	An NWTPI BTEX/H	alyses H-Gx, HVOCs	Equipme 44.61 14 Perserv.	nt in Feet Filter NO		At no. of Casing Volumes Purge Water Disposal Me Total Numb	ethod/Volume per of Bottles	Drum left on site
Si Bot VO 0.5 Am	ample 2) Sai tle Type A L ber	mpling	Data ntainers 4	An NWTPI BTEX/I NWTPI Total M	alyses H-Gx, HVOCs H-Dx	Equipme 44.61 K Perserv. HCI no	nt in Feet		At no. of Casing Volumes Purge Water Disposal Me	ethod/Volume per of Bottles	Drum left on site
Si Bot VO 0.5 Am	ample 2) Sar tle Type A L	mpling	Data ntainers 4	An NWTPI BTEX/F NWTPI Total M Metals	alyses H-Gx, HVOCs H-Dx ITCA	Equipme 44.61 14 Perserv.	nt in Feet Filter NO		At no. of Casing Volumes Purge Water Disposal Me Total Numb	ethod/Volume per of Bottles	Drum left on site
Si Bot VO 0.5 Am 0.5	ample 2) Sai tle Type A L ber	mpling	Data ntainers 4 1	An NWTPI BTEX/F NWTPI Total M Metals	alyses H-Gx, HVOCs H-Dx ITCA ed MTCA	Equipme 44.61 IC Perserv. HCI NO HNO3	nt in Feet Filter no no		At no. of Casing Volumes Purge Water Disposal Me Total Numb	ethod/Volume per of Bottles ample I.D.	Drum left on site
Si Bot VO. 0.5 Am	ample 2) Sar tle Type A L ber L poly	mpling	Data ntainers 4 1	An NWTPI BTEX/I NWTPI Total M Metals Dissolv	alyses H-Gx, HVOCs H-Dx ITCA ed MTCA	Equipme 44.61 14 Perserv. HCI no HNO3	nt in Feet Filter no no no		At no. of Casing Volumes Purge Water Disposal Me Total Numb Duplicate S	ethod/Volume per of Bottles ample I.D.	Drum left on site
Si Bot VO 0.5 Am 0.5	ample 2) Sai tle Type A L ber L poly L Poly	mpling	Data Data 1 1 1	An NWTPI BTEX/H NWTPI Total N Metals Dissolv Metals	alyses H-Gx, HVOCs H-Dx ITCA ed MTCA	Equipme 44.61 14 Perserv. HCI no HNO3	nt in Feet Filter no no no		At no. of Casing Volumes Purge Water Disposal Me Total Numb Duplicate S Field Blank	ethod/Volume per of Bottles ample I.D. I.D. ample I.D.	<u>0.5</u> Drum left on site 7
Si Bot VO 0.5 Am 0.5	ample 2) Sai tle Type A L ber L poly L Poly 3) Fie	(')δηγρο 55 Su I (Mo of Co	Data Data I I I I I I I I I I I I I I I I I I	An NWTPI BTEX/H NWTPI Total M Metals Dissolv Metals	alyses H-Gx, H-Dx ITCA red MTCA	Equipme 44.61 14 Perserv. HCI no HNO3	riin Feet Filter no no yes		At no. of Casing Volumes Purge Water Disposal Me Total Numb Duplicate S Field Blank Rinseate Sa Type/Brand/Serial I	ethod/Volume ber of Bottles ample I.D. I.D. ample I.D.	<u>0.5</u> <u>Drum left on site</u> 7 Units
Si Bot VO 0.5 Am 0.5	ample 2) Sai tle Type A L ber L poly L Poly 3) Fie	(^γ) 55 5 1 (mpling h No of Co Co 1 1 Mo of Co 1 1 1 1 1 1 1 1 1 1 1 1 1	Data Data I I I I I I I I I I I I I I I I I I	An NWTPI BTEX/H NWTPI Total M Metals Dissolv Metals	alyses H-Gx, H-Dx ITCA red MTCA	Equipme 44.61 K Perserv. HCI no HNO3 HNO3	riin Feet Filter no no yes		At no. of Casing Volumes Purge Water Disposal Me Total Numb Duplicate S Field Blank Rinseate Sa	ethod/Volume ber of Bottles ample I.D. I.D. ample I.D.	<u>0.5</u> <u>Drum left on site</u> 7 Units
Si Bot VO 0.5 Am 0.5	ample 2) Sar tle Type A L ber L poly L Poly 3) Fie Pump	(^γ) 55 5 1 (mpling l No of Co Co 1 1 Mo of Co 1 1 1 1 1 1 1 1 1 1 1 1 1	Data Data I I I I I I I I I I I I I I I I I I	An NWTPI BTEX/H NWTPI Total M Metals Dissolv Metals	alyses H-Gx, H-Dx ITCA red MTCA	Equipme 44.61 K Perserv. HCI no HNO3 HNO3	riin Feet Filter no no yes		At no. of Casing Volumes Purge Water Disposal Me Total Numb Duplicate S Field Blank Rinseate Sa Type/Brand/Serial I Temp/pH/E.C./D.O	ethod/Volume per of Bottles ample I.D. I.D. ample I.D.	<u>0.5</u> <u>Drum left on site</u> 7 Units

HARTCROWSER Groundwater Sampling Data - Well I.D. DMW-SIA

	ATION DESC IW of E corn	• •	· /		<u>.</u> .				
PROJECT		DEKTER	<i>,</i> , ,		DATI	E/TIME SAM		3/18/2020 3/19/2020	5/14
JOB NO.		09-04-1	5					YES NO X	_ /
PROJECT						L DEPTH IN		49.6	
FIELD REPS		-					-	. 40	_
		B. Lyru							_
Purging l	Data/Field	d Measure	ements: /	All Measuren	nents Relati	ve to Top of	Casing (TOC	2)	ŕ
WELL DEPT	ГН	49.6			CAS	ING VOLUM	E IN GALLC	I.9	
DEPTH TO	SEDIMENT	(DTS) IN FE	ET <u>50</u>	,23	[2	" diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]	
DEPTH TO	WATER (DT	W) IN FEET	- 39	8.71	PUR	GE VOLUME		NS 5.6	
(DTS - DTV	V)	11.5	2		ACT	UAL PURGE	IN GALLON	15 1.5	
	No. of			-			1		_
	No. of Gallons	· · ·	Temp	Conduçt	Diss. Oxygen		ORP	Comments: quality, recovery, c	olor, odo
Time	Purged	pН	in °C	in <u>In Skin</u>		Turbidity	in <u>w</u> V	sheen, accumulate	d silt/san
1158	0.1	8.80	15.7	419.1	2.18	25.13	300.7	INITIALY CLEAR, NO, NS	
1237	1.0	8.96	16,6	421,2	1.66	38.40	200.9	CLEAR NO NS	
1321	1.5	8.92	16.2	427.6	3.95	72,52	122.6		
1900 Comments 84 мь 1' р 4	1.5 5: @ 1200 TM 45.6 '@ 1238	ENED PUMP	AS LOW AS	S TAKEN I DOSSIBLE T T, MUST KE	to Kap Flo	W B UT NOT	ory we	Slightly two 21 O1225 FLOW STOPPOS AN WORLD'S AND TO 46.6. WATCH	LEVER 15
Comments	5: @ 1200 TM	ENED PUMP	NCONSISTENT	possible T , Aust Ke	E LOR FLO THE MILLET epth of	NB UT NOT	ory we	21 CITZS FLOW STOPPED AN	LEVER 15
Comments SUNE 1'p '	s: @ 1209 TM H5.12 '@ 1238 Method	ENED DUMP FLOW IS 1	NCONSISTENT	possible T T, Must v.e ng Rate Do 1 Ec	BLORF FLO MR MUUST epth of quip. in Feel	Bo	- 924 we @1242.co ills dry? At no. of c	<u>الله (۱۲۲۶ ۲۵۵ ۲۹۹۴۵) ۸۸</u> الله ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۰ ۲۷۰۵ Yes <u>No</u> casing volumes <u>No</u>	LEVER 15
Comments ՏԱՌԵ 1 թ հ	5: (2) 1200 TM 15: (2) 12:38 Method 55 5: J&m	ENED DUMP FLOW IS 1	NCONSISTENT	possible T r, Aust Ke ng Rate Do 1 Ec 0. 4	E LOR FLO THE MILLET epth of	Bo	ی کلی میں (1242 میں ills dry? At no. of c irge Water D	United Contract And WALLAND RUNP TO 46.6. WATCH Contract Yes No	Lever 15
Comments SUNE 1'p '	s: @ 1209 TM H5.12 '@ 1238 Method	ENED DUMP FLOW IS 1	NCONSISTENT	possible T r, Aust Ke ng Rate Do 1 Ec 0. 4	B KOR FLO RN ALLUST epth of quip. in Feet 45 47.L	Bo	ی کلی میں (1242 میں ills dry? At no. of c irge Water D	<u>الله (۱۲۲۶ ۲۵۵ ۲۹۹۴۵) ۸۸</u> الله ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۵ ۲۰ ۲۷۰۵ Yes <u>No</u> casing volumes <u>No</u>	Lever 15
Comments 3GIA6 1 p 4 Purge	5: (2) 1200 TM H5.10 (2) 1238 Method 55 5 JBM 55 5 JB	ENED DUMP FLOW IS 1	NCONSISTENT	possible T r, Aust Ke ng Rate Do 1 Ec 0. 4	B KOR FLO RN ALLUST epth of quip. in Feet 45 47.L	Bo	ی کلی میں (1242 میں ills dry? At no. of c irge Water D	United Contract And WALLAND RUNP TO 46.6. WATCH Contract Yes No	Lever 15
Comments 84 мь 1 р Purge Sample	5: (2) 1200 TM H5.10 (2) 1238 Method 55 5 JBM 55 5 JB	ENED DUMP FLOW IS 1	NCONSISTENT	possible T r, Aust Ke ng Rate Do 1 Ec 0. 4	B KOR FLO RN ALLUST epth of quip. in Feet 45 47.L	Bo	BLJ M	United Contract And WALLING AUMP TO 46.6. WATCH Contract Yes No	Lever 15
Comments Ասոե 1-թ Purge Sample Sampling Bottle Type	s: (2) 1200 TM H5.12 (2) 12.38 Method SS SJBM SS SJBM SS SJB g Data e # of Conta	ENED PUMP ELOW IS (MSGEE iners Ana	Norman Stand	possible T , Must V. ng Rate Di 1 Ec 0 \ 4 D \ \	Preserv.	Bo	BLJ M	LEPT ON SITE	LEVER 15
Comments SCI ~6 1'p ' Purge Sample Sampling Bottle Type	s: (2) 1200 TM H5.12 (2) 1238 Method 55 5.18m 55 5.18m 55 5.18m 55 5.18m 6 Data e Conta 4	ENED PUMP ELOW IS (MSGEE iners Ana	Norman Stand	possible T , Must V. ng Rate Di 1 Ec 0 \ 4 D \ \	Preserv. H Cl	Filter	שנא שני (2) זבין בער ils dry? At no. of c ירפפ Water D (אנו אנ	LEPT ON SITE	LEVER 15
Comments GUNG 1 p Purge Sample Sampling Bottle Type VoA 0.5 L AMB	S: (2) 1200 TM H5.12 (2) 1238 Method 55 5.18m 55 5.18 C Data e Conta e Conta 4 er 1	ENED PUMP ELOW IS I MSIBLE iners Ana NWT NWT	Norman States Pumpir in GPM LCO LCO LCO LCO LCO LSS NH-GX, 61 TH-OX	005518LE T r, Must K.@ ng Rate Did 1 Ed 0. 44 D.1 1	Preserv. H CI	Filter	Duplica	U	LEVER 15
Comments SUNE 1 p Purge Sample Sample Bottle Type VoA 0.5 L AMBA	S: (2) 1200 TM H5.10 (2) 12.38 Method SS SJBM SS SJBM SS SJBM PData PData PData H of Conta H GR H I I I I I I I I I I I I I	ENED PUMP ELOW IS I MSIBLE iners Ana NWT NWT	$\frac{15 \text{ LOW } 45}{\text{N} \text{ CONSISTENT}}$ Pumpir in GPM 1 CO 1 CO	POSSIBLE T F, Aust Ke Ing Rate Di EX-HVOL'S IETALS	Preserv. H Cl No H No H No H No H No H No H No H No H	Filter NO NO NO NO	الله من المراجع ال	L. CI225 FLOW STOPPES) AM Weel/No AMP TO 46.6: WATCH Yes No cassing volumes Disposal Method/Volume LEPT ON 5 ITE umber of Bottles 7 te Sample I.D. iank I.D.	Lever 15
Comments SUNG 1'p ' Purge Sample Sampling Bottle Type VoA OSL PD OSL PD OSL P	S: (2) 1200 TM H5.12 (2) 1238 Method 55 5.18 55 5.18	ENED PUMP ELOW IS I MSIBLE iners Ana NWT NWT	$\frac{15 \text{ LOW } 45}{\text{N} \text{ CONSISTENT}}$ Pumpir in GPM 1 CO 1 CO	005518LE T r, Must K.@ ng Rate Did 1 Ed 0. 44 D.1 1	Preserv. H Cl No H No H No H No H No H No H No H No H	Filter NO NO NO NO	الله من المراجع ال	LEPT ON SITE	Lever 15
Comments SUNG 1/p Purge Sample Sampling Bottle Type VoA 0.5 L AMB 0.5 L AMB	S: (2) 1200 TM H5.12 (2) 1238 Method 55 5.18 55 5.18	ENED PUMP ELOW IS I MSIBLE iners Ana NWT NWT	$\frac{15 \text{ LOW } 45}{\text{N} \text{ CONSISTENT}}$ Pumpir in GPM 1 CO 1 CO	POSSIBLE T F, Aust Ke Ing Rate Di EX-HVOL'S IETALS	Preserv. H Cl NO H MO3	В ит мот Mb pmp Bo Pu Filter N0 N0 N0 N0 Vot	DLy WC C1242-CC ils dry? At no. of c rge Water D OLJ M Total nu Duplica Field Bl S	L. CI225 FLOW STOPPES) AM Weel/No AMP TO 46.6: WATCH Yes No cassing volumes Disposal Method/Volume LEPT ON 5 ITE umber of Bottles 7 te Sample I.D. iank I.D.	Lever 15
Comments Curve 1 p 4 Purge Sample Sample Sampling Bottle Type VoA D-S L AMB O-S L P D-S L P Field Equ	S: Q 1200 TM H5.10 Q 12.38 Method SS SJ8M SS SJ8M SS SJ8M PData # of Conta 4 Conta 5 Conta 5 Conta	ENED PUMP ELOW IS (MS)BLE iners Ana NWT NWT DI	Normalization A_{3} Pumpir in GPM $L \ge 0$ $L \ge 0$	POSSIBLE T F, Aust Ke Ing Rate Di EX-HVOL'S IETALS	Preserv. H Cl NO H MO3 H MO3 T	Filter NO NO NO NO NO NO NO NO NO NO NO NO NO	DLy WC C1242-CC ils dry? At no. of c rge Water D OLJ M Total nu Duplica Field Bl S Rinseat d/Serial I	L. CI225 FLOW STOPPES) AM Weel/No PUMP TO 46.6. WATCH CONTINUED Yes No casing volumes Disposal Method/Volume LEPT ON SITE umber of Bottles 7 te Sample I.D. ank I.D. te Sample I.D.	Lever 15
Comments GLING 1 p 4 Purge Sample Sampling Bottle Type VoA 0.5 L AMB 0.5 L P 0.5 L P Field Equ Pump Type		ENED PUMP ELOW IS (MS)BLE iners Ana NWT NWT DI	Normalization A_{3} Pumpir in GPM $L \ge 0$ $L \ge 0$	POSSIBLE T F, Aust Ke Ing Rate Di EX-HVOL'S IETALS	Preserv. H Cl NO H MO3 T	W 8 UT NOT Wb pmp Bo Pu Filter N0 N0 N0 Ype/Bran emp/pH/E.	DLy WC (2)242-CC ils dry? At no. of c irge Water D (AJ M Total nu Duplica Field Bl (Serial N C. meter	L. CI225 FLOW STOPPES) AM Weel/No PUMP TO 46.6. WATCH CONTINUED Yes No casing volumes Disposal Method/Volume LEPT ON SITE umber of Bottles 7 te Sample I.D. ank I.D. te Sample I.D.	LEVER 15
Comments Curve 1 p 4 Purge Sample Sample Sampling Bottle Type VoA D-S L AMB O-S L P D-S L P Field Equ	s: Q 1200 TM H5.10 Q 1238 Method 55 5J8M 55 5J8M 55 5J8M 55 5J8M 55 5J8M 55 5J8M 9 Data 9 Data 9 Data 9 Data 9 Data 1 00-4 1 1 00-4 1 9 1238 9 1238 9 1238 1 238 1 200 TM 1 1238 1 1200 TM 1 1200 TM	ENED PUMP ELOW IS (MS)BLE iners Ana NWT NWT DI	Normalization A_{3} Pumpir in GPM $L \ge 0$ $L \ge 0$	POSSIBLE T F, Aust Ke Ing Rate Di EX-HVOL'S IETALS	Preserv. H Cl NO H MO3 H MO3 V V	Filter NO NO NO NO NO NO NO NO NO NO NO NO NO	DLy WC (2)242-CC ils dry? At no. of c irge Water D (AJ M Total nu Duplica Field Bl (Serial N C. meter	L. CI225 FLOW STOPPES) AM Weel/No PUMP TO 46.6. WATCH CONTINUED Yes No casing volumes Disposal Method/Volume LEPT ON SITE umber of Bottles 7 te Sample I.D. ank I.D. te Sample I.D.	LEVER 15

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Comonts

- @ 1314 TALKED TO MARISSA. LOWERING PUMP 1/2 AND, IF FLOW CAN BE MAINTAINED, WILL SAMPLE W/OUT STABLE PALANCTERS. @ 1340 PAUSING - LEANING PUMP IN WELL (PER MANISSA) AND LOTTING WELL RELADED. WILL SAMPLE DAW-45 IN THE MENNIME.
- (DIF30 MAKE NOTE OF CLOUDINESS AT SAMPLING. USE AN UNFILTERED POLY FOR DISSOURCE METRICS. (PER CALL W/ MARISSA). ACCORDING TO THE LAB, AMBOR BOTTLES NEED 1/2 BOTTLE MINIMUM, POLY BOTTLES ID ML MERTMINIMUM, VOA'S FULL.

	PROJECT JOB NO.			MEGAA	lock - DEX	H-DATE	TIME SAM	PLED	10/14/2020
			194090				LY INFLUE		YES NOK
		ANAGER	M GOODA	AN /M	PALEL	WELL	DEPTH IN	FEET	50'
	FIELD REP	s	B LYTT	E		SCRE	EENED INTE	RVAL IN FE	EET 40-50 ¹
1) Purging i	Data/Field	l Measure	ments:	All Measurem	ents Relativ	e to Top of (Casing (TOC)
	WELL DEP	тн	50			CASI			ons 1.34
	DEPTH TO	SEDIMENT	(DTS) IN FE		al Broc	[2'	diam = x .1		4" diam = x .653 gal/ft]
	DEPTH TO	WATER (DT		41	87 BTOC	PUR		IN GALLO	
	(DTS – DTV	V)	8	1237		ACTI	JAL PURGE	IN GALLON	vs t.o.1.3
		No. of				Diss.			
	Time	Gallons Purged	рН	Temp in °C	Conduct in MS/CM	Oxygen in <u>mg/L</u>	Turbidity		Comments: quality, recovery, color, odo sheen, accumulated silt/san
177AL	1348	0-[7.66	17.2	0.502	2,12	29.32	-10,8	INITIALLY CLEAR, NO, NS
	1423	1.0	7.43	18.1	0.504	1.09	23.04	6.1	CLEAK, NO, NS
	1510-	~1.3							
sample	e:								
									WS. KEPT WATERLINE DOWN WELL
on ther	WMBA Leve	50 pmp	DESMENN), DECREMENTS OF TO 30 NO APTRIL 5 MIN. CONTINUED ON B ACUL
on the	WMBA Leve	Method	DOLSMENN		ng Rate De	epth of quip. in Feet	Bo	oils dry?	Yes X No
in the	WATCAL Leve	Method	BULS 15 LE	Pumpii	ng Rate De 1 Ec	epth of	Bo	ils dry? At no. of t	Yes X No
No ITOR		Method	BUSIBLE	Pumpii in GPN	ng Rate De 1 Ed 0.3 4	epth of quip. in Feet	Bo Pu	ils dry? At no. of t	Yes No casing volumes Disposal Method/Volume
אי איי	Purge Sample	Method 55 Sub A	BUSIBLE	Pumpin in GPN 0.0	ng Rate De 1 Ed 0.3 4	epth of quip. in Feet 5' 810 C	Bo Pu	ils dry? At no. of t irge Water I	Yes No casing volumes Disposal Method/Volume
en trol	Purge	Method 55 Sub A	BUSIBLE	Pumpin in GPN 0.0	ng Rate De 1 Ed 0.3 4	epth of quip. in Feet 5' 810 C	Bo Pu	ils dry? At no. of t irge Water I	Yes No casing volumes Disposal Method/Volume / 1, 3 6A L
N ITOR	Purge Sample	Method 55 SCA g Data # of	BASIBLE	Pumpii in GPN <i>D.C</i>	ng Rate De 1 Ed 0.3 4	epth of guip. in Feet 15' Broc N		nils dry? At no. of f urge Water ⊑ gw - ≲ (T∈	Yes No casing volumes Disposal Method/Volume
N ITOR	Purge Sample	Method 55 SCAA g Data # of Conta	aliners Ana	Pumpii in GPN 0.0 (1	ng Rate De 1 Ec 23 4	epth of quip. in Feet 5' 810 C	Bo Pu	bils dry? At no. of f urge Water I ov - S (T∈ Total n	Yes X No No Casing volumes 1.0 Disposal Method/Volume DAM / 1, 3 GAL
IN ITOR	Purge Sample Samplin Bottle Tyj	Method 55 SCAA g Data # of Conta	aliners Ana	Pumpii in GPN 0.0 (1	ng Rate De 1 Ed 0.3 4	epth of guip. in Feet 15' Broc N		bils dry? At no. of t urge Water I <u>ov - Str</u> ∈ Total n Duplica	Yes No casing volumes Disposal Method/Volume / 1, 3 6A L
IN ITOR	Purge Sample Samplin Bottle Tyj	Method 55 SCAA g Data # of Conta	aliners Ana	Pumpii in GPN 0.0 (1	ng Rate De 1 Ec 23 4	epth of guip. in Feet 15' Broc N		oils dry? At no. of f ווקפ Water I אל - גרב גרב Total n Duplica Field E	Yes X No No Casing volumes 1,0 Disposal Method/Volume Disposal Method/Volume
an trac	Purge Sample Samplin Bottle Tyj	Method 55 SCAA g Data # of Conta	aliners Ana	Pumpii in GPN 0.0 (1	ng Rate De 1 Ec 23 4	epth of guip. in Feet 15' Broc N		oils dry? At no. of f ווקפ Water I אל - גרב גרב Total n Duplica Field E	Yes No casing volumes Disposal Method/Volume / 1, 3 6A L
N ITOR	Purge Sample Samplin Bottle Tyj 0 & AMB	Method 55 SCAA g Data # of Conta	aliners Ana	Pumpii in GPN 0.0 (1	ng Rate De 1 Ec 23 4	Preserv.	Filter	t no. of א At no. of א ער חס. of א ער הייקר איין איין דotal n Duplica Field E Rinsea	Yes X No No Casing volumes 1,0 Disposal Method/Volume Disposal Method/Volume
(2	Purge Sample Samplin Bottle Typ 0.52 AMB	Method 55 Sc. A g Data g Data g Data g Data g Data g Uipment	ainers Ana	Pumpii in GPN 0.c i (lyses M-Dx ()	ng Rate De 1 Ec 23 4	Preserv.	Filter	ills dry? At no. of f سر - کر ترہے Total n Duplica Field E Rinsea	Yes No casing volumes Disposal Method/Volume / 1, 3 6A L number of Bottles ate Sample I.D Blank I.D ate Sample I.D No./Material Units
(2	Purge Sample Samplin Bottle Typ 0.52 AMB	Method 55 Sc. A g Data g Data pe Conta cal 2 guipment pe/Tubing T	ainers Ana	Pumpii in GPN 0.c i (lyses M-Dx ()	ng Rate De 1 Ec 23 4	Preserv.	Filter	At no. of e arge Water I <u>مر - S د T</u> Total n Duplica Field E Rinsea nd/Serial	Yes \underline{X} No casing volumes $\underline{I,0}$ Disposal Method/Volume $\underline{ph.um}$ $\underline{I,3}$ \underline{GaL}

COMENTS

- 1437 WATCH LEVEL RETAILES PUMP AT 45', LOVELWE PUMP 1 PT.
- 1440 WATTA LEVERAT AVMP, LOWGRON TO ~47 FT.
- 1443 VATER AT PUMP, LONDE TO ~ 48', WILL BEFURD TO CONTINUE PURDE, CALUMA MARISSA

1500 WILL CONTINUE & PUMP WELL "COMPLETELY MY", THEN'S PURGE POR TODAT. ACTURN TOMORROW & SAMPLE IMMERIATELY WAITING POR STABLE PARAMETERS POR M GOODMAN/M DATOFL.

1510 WELL WILL NOT PRODUCE EVEN WHEN PUMPING VOLNED IN CARASED

FIELD REPS Purging Data WELL DEPTH DEPTH TO SEDI	1940904 1940904 AGER <u>Молн</u> В. LYTLE A/Field Measure	10				10/15/2020 0844 YES NO X
FIELD REPS Purging Data WELL DEPTH DEPTH TO SEDI	GER <u>M DATE</u> B. LYTLE M Field Measure		uN .			YES NO 🗶
FIELD REPS Purging Data WELL DEPTH DEPTH TO SEDI	B. LYTLE M/Field Measure			WELL DEPTH IN	FEET	50'
WELL DEPTH DEPTH TO SEDI				SCREENED INT	ERVAL IN F	EET 40-50'
DEPTH TO SEDI		ments: All Meas	surements .	Relative to Top of	Casing (TOC	2)
	50'				IE IN GALLC	ons /, 33
DEPTH TO WAT	MENT (DTS) IN FE	ET 50.1'	Bra	[2" diam = x .	163 gal/ft	4" diam = x .653 gal/ft]
	ER (DTW) IN FEET	41.96	BIDC	PURGE VOLUM	E IN GALLO	NS 4.0
(DTS – DTW)	8	.14		ACTUAL PURG		ns o.l
N	o. of		D	iss.	1.	
	allons u rged pH	Temp Conc in °C in	luct Ox	ygen Turbidity	ORP in	Comments: quality, recovery, color, odor sheen, accumulated silt/san
						7
	NO PMAMETE	Pumping Rate		of B	oils dry?	Yes K No
Purge 5	S SUBMBLSIBLE	20.07	451	Р		Disposal Method/Volume
Sample	u	11	- 11		UN SITE	
) Sampling Da						umber of Bottles Z
Bottle Type	Containers Anal	yses		serv. Filter		
0.5 L AMBOR	2 NWN	H-DA SULLAD	a -		Duplica	ate Sample I.D.
					Field B	Blank I.D.
					Rinsea	ate Sample I.D.
) Field Equipr	ment		240	Type/Bra	nd/Serial	No./Material Units
j i iciu Eguipi		1				
Bottle Type		and the state		serv. Filter	Duplica Field B	ate Sample I.D.

	Grou	<i>indwater</i> S	ampling Da	ata - V	Vell I.D.	DMW-6	
	Field Re	Manager eps.				Date/Time Sampled Tidally Influenced Well Depth in Feet Screened Interval in Fe	
	1) Pur	ging Data/Fie	ld Measureme	ents: A	ll Measurem	ents Relative to Top	of Casing (TOC) _0.25
	-	f Sediment (DTS) f Water (DTW) in			<u>~~~</u>	Casing Volume in Gallo [2" diameter = x 0.163 Purge Volume in Gallon Actual Purge in Gallons	3 gal/ft] ns <u>7.77</u>
10913 	БР 091 0926 0933 0933 0941 0947 0956 Сотт	No. of Gallons Purged pH 1.0 6.08 2.0 5.94 3.0 6.00 4.0 6.05 5.0 6.06 6.0 6.04 ents	15.4 426.2 15.5 436.1 15.6 441.9		13.20 22 5.74 15 4.31 13 3.57 12 3.00 12 2.50 15	Comments: Quality, Record 6.5 initially 8.8 clear N 8.0 clear N	- (
	Purge	sub pump	Ool	3-6.		At no. of Casing Volum	es
	Sample	L	1		· · ·	Purge Water Disposal I	Method/Volume Drum left on site
	2) Sar	npling Data					
vo	ottle Type DA	No of Containers	Analyses NWTPH-Gx, BTEX/HVOCs	Perserv. HCl	Filter no	Total Nun	nber of Bottles7
	5 L nber	1	NWTPH-Dx	no	no	Duplicate	Sample I.D.
	5 L poly 5 L Poly	· · · ·	Total MTCA Metals Dissolved MTCA Metals	HNO3 HNO3	no ves	Field Blar	
					yes		
						Rinseate	Sample I.D.
	3) Fie	ld Equipment			ż	Type/Brand/Seria	I No./Material/Units
	Pump Bailer Filter T		pe <u>55 pum</u> 0.45	MM		Temp/pH/E.C./D.O Water Level Probe Other	YSI DSS Weeterline
	4) We	ll Conditions	ÔK	X	Not OK	Explain	HC Standards/Field Forms/GW-Well 1D

HARTCROWSER Groundwater Sampling Data - Well I.D. DMW-7S

	PROJECT		ner of building cer Megab			DÁTI	E/TIME SAM	IPLED	11/2/2020 0956	
	JOB NO.	194	0904			TIDA	LLY INFLUE	INCED	YES NO	X
	PROJECT			gel/M Goo	dman	WEL	L DEPTH IN	FEET		
	FIELD REP	s <u>B</u> L	YTLE			SCR	EENED INTE	ERVAL IN F	eet 28-38	· · · · · · · · · · · · · · · · · · ·
	Purging	Data/Fiel	d Measure	ements: /	All Measuren	nents Relativ	ve to Top of	Casing (TO		
	WELL DEP	гн	38'			CASI	NG VOLUM	E IN GALLC	DNS 1.6	
	DEPTH TO	SEDIMENT	(DTS) IN FE	ET <u>36</u>	1./0	[2	' diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]	
	DEPTH TO	WATER (D	TW) IN FEET	2	8.09	PUR	GE VOLUME	E IN GALLO		
	(DTS – DTV	V)	10.01				JAL PURGE	IN GALLON	1s <u>3,0</u>	
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct in $\mu s/\sigma$	Diss. Oxygen in r 9/L	Turbidity	ORP in M√	Comments: quality, rec	covery, color, odor cumulated silt/sand
MAL	0859	0-1	7.54	16.4	496.9	5.46	62.42	93,7	INITIALLY SLIGHT GAMY ?	VEBIDITY, NO, N.
	0920	1.0	7.13	17,8	499.4	1.66	18.21	-11.5	CLEAK, NO, NS	
	0940	2.0	7.04	18.1	479.0	1.20	15.70	-20.7	N, 11, 11	
sample:	0956	3.0	7.08	18.2	466.6	1-18	24.21	-29.9	By explain	
	Comments	3 :						 		
		Method		Pumpin in GPM		epth of uip. in Feet		ils dry?	Yes	No K
	Purge	55 500	3	8.08	3 .	33	Bu		isposal Method/Volume	
				1(inge water D	e Drum / 3,5 brl	
	Sample	- IV		*1		11		ON SITE	E DIGHE / 3,3 BITC	
2	Sample Sampling	<u> </u>				lı 		ON SITE		
2		<u> </u>				lı 				/
2	Sampling Bottle Type	Data # of Conta		yses		Preserv.	Filter			·
2	Sampling Bottle Type 0.5 L ambe	J Data # of e Conta er 1		yses TPH-Dx	EX	Preserv.		Total nu		· · · · · · · · · · · · · · · · · · ·
2	Sampling Bottle Type	J Data # of e Conta er 1		yses	EX			Total nu Duplica	umber of Bottles4	/
2	Sampling Bottle Type 0.5 L ambe	J Data # of e Conta er 1		yses TPH-Dx	EX	Preserv.		Total nu Duplica Field Bl	umber of Bottles4	
)	Sampling Bottle Type 0.5 L ambe	y Data # of Oconta Pr 1 A 3		yses TPH-Dx	EX	Preserv. HCI	Filter	Total nu Duplica Field Bl Rinseat	umber of Bottles4 te Sample I.D	/
3	Sampling Bottle Type 0.5 L ambe 40 mL VO Field Equ	y Data # of Conta or 1 A 3 ipment		yses TPH-Dx TPH-Gx, BTI	EX	Preserv. HCI	Filter	Total nu Duplica Field Bl Rinseat d/Serial N	umber of Bottles4 te Sample I.D ank I.D e Sample I.D	
3	Sampling Bottle Type 0.5 L ambe 40 mL VO Field Equ	# of P Conta Pr 1 A 3 Impment P/Tubing Tr		yses TPH-Dx TPH-Gx, BTI	EX	Preserv. HCI T	Filter	Total nu Duplica Field Bl Rinseat d/Serial N C. meter	umber of Bottles te Sample I.D ank I.D e Sample I.D No./Material Units	
3	Sampling Bottle Type 0.5 L ambe 40 mL VO Field Equ Pump Type	y Data # of Conta or 1 A 3 		yses TPH-Dx TPH-Gx, BTI	EX	Preserv. HCI 7	Filter Filter	Total nu Duplica Field Bl Rinseat d/Serial N C. meter	umber of Bottles4 te Sample I.D ank I.D e Sample I.D No./Material Units 451 <i>J</i> SS <i>f</i> #0	

HARTCROWSER Groundwater Sampling Data - Well I.D. DMW-8S

WELL LOCATION DE (e.g., 20' NW of E co	SC. (for new wells) SIDEWALK	OF DEXTER AVENUS	E (WEST SID	E JE STREET)
PROJECT Me	rcer Megablock	DATE/TIME SAMPLED	11/2/2020	10:29
JOB NO. 19	40904	TIDALLY INFLUENCED	YES	NO X
PROJECT MANAGER	M Dagel/M Goodman	WELL DEPTH IN FEET	38'	
FIELD REPS	VANDERNAL	SCREENED INTERVAL IN	FEET Z3-	38

1 Purging Data/Field Measurements: All Measurements Relative to Top of Casing (TOC)

WELL DEPTH	38'	18	CASING VOLUME IN GALLONS
DEPTH TO SEDIMENT	(DTS) IN FEET	37.75	[2" diam = x .163 gal/ft 4" diam = x .653 gal/ft]
DEPTH TO WATER (D	TW) IN FEET	28.73	PURGE VOLUME IN GALLONS
(DTS – DTW)	9.02		ACTUAL PURGE IN GALLONS 4.0

		No. of Gallons		Temp	Conduct	Diss. Oxygen		ORP	Comments: quality, recovery, color, odor,
	Time	Purged	pH	in °C	in/s/un	in mal	Turbidity	in <u>m</u>	sheen, accumulated silt/sand
	0356	0.1	7.46	17.1	0.304	5.12	4.13	79.3	
	0916	1	6.96	16.9	0.304	3.55	1.21	45.1	
	0940	2	6.99	17.8	0311	2.95	0.88	3.3	
	1003	3	7.01	18.0	031	2.90	1.35	- 9.6	
sample:	1029	4	6.98	18.2	0.303	2.95	1.21	-15.1	

Comments:

	Method	Pumping Rate in GPM	Depth of Equip. in Feet	Boils dry? Yes No At no. of casing volumes
Purge	SS SUBMERSIBLE	0.04	33	
Sample	11	15	1)	Purge Water Disposal Method/Volume
			I	

²) Sampling Data

Field Equipment

3

	# of			
Bottle Type	Containers	Analyses	Preserv.	Filter
0.5 L amber	1	TPH-Dx		
40 mL VOA 3		TPH-Gx, BTEX	HCI	

Type/Brand/Serial No./Material Units

Total number of Bottles

Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D. 4

Pump Type/Tubing	Type 55 SUB/PE	Temp/pH/E.C. meter	YSI PRODSS	
Bailer Type		Water Level Probe	WATER UNE	
Filter Type		Other		
4 Well Conditions	ОК 🔀 Not ОК	Explain		

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HARTCROWSER Groundwater Sampling Data - Well I.D. DMW-9S

	WELL LOCA (e.g., 20' N	W of E corn	er of buildin	g A)					. (
	PROJECT	·····					DATE/TIME SAMPLED 11/2/2020 1143					
	JOB NO.	· · · · · · · · · · · · · · · · · · ·	0904				LLY INFLUE		YES	NO <u>X</u>		
	PROJECT N			gel/M Goo	odman		WELL DEPTH IN FEET 33					
	FIELD REPS	es <u>Blytle</u>					EENED INTE	ERVAL IN FE	ET 23	-33		
	Purging I	Data/Field		2	All Measuren	nents Relativ	e to Top of	Casing (TOC				
	WELL DEPTH 33					CASING VOLUME IN GALLONS 0.5						
	DEPTH TO :				32, 20 [2" diam = x .163 gal/ft 4" diam = x .653 gal/ft]							
	DEPTH TO		W) IN FEET 3 ,2 (29.00			E IN GALLO		1.5		
	(DTS – DTW	/)	2.20)		ACTU	JAL PURGE	IN GALLON	IS	1.0		
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct	Diss. Oxygen in <u>Ma</u> /L	Turbidity	ORP		quality, recovery, sheen, accumula		
MITTAL	-a-1 112	0.1	7.30	18.6	527	4.49	11.26	32.7		CLEM, NO, N		
in the ne	1134	0.5	6.86	18,0	522	2.83	4.95	46.8		NO NS		
SAMP LE	(143	1.0	6.83	18.1	522	2.75	3,84	47.3		N . 11		
<i></i>		,				200						
_sample:												
	Comments	Method		Pumpin in GPM		epth of Juip. in Feet	Во	ils dry?	Yes	No	×	
	Purge	PERISMI	ΠC	0.04		30			asing volumes			
	Sample	0.0	··· · ·	11		n	Purge Water Disposal Method/Vo					
2	Sampling	Data			1			- ·	Imber of Bottles			
	Bottle Type	e Contai		yses		Preserv.	Filter					
	0.5 L ambe			TPH-Dx	EV	HCI	Duplicate Sample I.D.				Reality of the second s	
	40 1112 007	<u> </u>	i	TPH-Gx, BT	LA	Field Blan		nk I.D.				
								Rinseate	e Sample I.D.			
3	Field Equ	ipment				T	ype/Bran	d/Serial N	lo./Material	Units		
	Pump Type	/Tubing Ty	ype <u>Pa</u>	SMLTIC /	PE	Te	emp/pH/E.(C. meter	751	PSS PRO	<u> </u>	
	Bailer Type	-				W	ater Level	Probe	WATC	ALINE	<u> </u>	
	Filter Type			and the first of the spectrum of the		0	ther			N°		
4	Well Con	ditions	С	к	Not OK	Explain	•					

+



WELL LOCATION DESC. (for new wells)	PARIANY LOT of COPIERS NOT	741,1557
(e.g., 20' NW of E corner of building A)	*	
PROJECT Mercer Megablock	DATE/TIME SAMPLED	11/2/2020 1259
JOB NO1940904 ,	TIDALLY INFLUENCED	YES NO X
PROJECT MANAGER M Dagel/M G	oodman WELL DEPTH IN FEET	55'
	SCREENED INTERVAL IN	FEET 35-55'
FIELD REPS J VANDERDAL	SCREENED INTERVAL IN	
\sim	<i>CREENED</i> INTERVAL IN SCREENED INTERVAL IN	
<u> </u>		DC)
1 Purging Data/Field Measurements	S: All Measurements Relative to Top of Casing (TO	DC)
Purging Data/Field Measurements WELL DEPTH 55' DEPTH TO SEDIMENT (DTS) IN FEET	CASING VOLUME IN GALL	OC) ONS <u>3-63</u> 4" diam = x .653 gal/ft]

	Time	No. of Gallons Purged	pН	Temp in °C	Conduct	Diss. Oxygen in <u>mark</u>	Turbidity	ORP	Comments:	quality, recovery, color, odor, sheen, accumulated silt/sand
	1118	0.1	7.93	16.4	0.469	5.50	495.8	35.1		
	1153	1	7.83	17.0	0.470	1.57	171.2	-49.3		
	1205	2	7.83	17.1	0.463	1.28	584	-76.0		
	1217	3	7.79	17.1	0471	1.16	35.3	-1000		
eample:-	1230	4	7.77	17.2	0.477	<u>,</u> 11	25.2	-117.6		

Comments:

SAMPLE PARAMETERS CONTINUED ON BACK

	Method	Pumping Rate in GPM	Depth of Equip. in Feet
Purge	SS SUBMERSIBLE	0.07	45
Sample	55 SUBMERVRUE	0.07	45

Boils dry?	Yes	No	<u>X</u>
At no. of ca	asing volumes _		
Purge Water Di	sposal Method/\ Dz.v/	-	uans_
		•	

-

2) Sampling Data

Field Equipment

3

	# of			
Bottle Type	Containers	Analyses	Preserv.	Filter
0.5 L amber	1	TPH-Dx		-
40 mL VOA	3	TPH-Gx, BTEX	HCI	-

Type/Brand/Serial No./Material Units

Total number of Bottles

Duplicate Sample I.D. Field Blank I.D.

Rinseate Sample I.D.

Pump Type/Tubing Bailer Type _	Type <u>SSSU</u>	B/PE	Temp/pH/E Water Leve	VSI PRODES WATER LINE	
Filter Type			Other	 	
4 Well Conditions	ок	Not OK Ex	plain	 	

	TIME	No. OF GALLAS PURGED	PH	TEMP IN °C	Conduct in msfers	Diss. Oxygen In Ty/L	TURBDIRY	ORP N NV
	1243	5,	7.79	17.2	0.430	1.09	26.5	-129.6
MPLE	1259	6	7.80	17.3	0.481	1.06	24.3	-140.4
	Ŧ							
				- With the August of August of August of August of Augus				

HARTCROWSER	Groundwater Sampling Data - Well I.D11S
WELL LOCATION DESC. (for new wells)	PARKING LOT OF COPISES NOCTHINGST

(e.g., 20' NW a	of E corner o	f building A)	1		0	1		_
PROJECT	Mercer	Megablock		DATE/TIME SAMPLED	11	12/20	144	52
JOB NO.	194090)4 ,		TIDALLY INFLUENCED	YES	· /	NO	<u> </u>
PROJECT MAN		M Dagel/M Goodman		WELL DEPTH IN FEET		51'		
FIELD REPS	<u> </u>	ANTERWAL		SCREENED INTERVAL IN	FEET	30-	50	

1) Purging Data/Field Measurements: All Measurements Relative to Top of Casing (TOC)

WELL DEPTH 51'	CASING VOLUME IN GALLONS
DEPTH TO SEDIMENT (DTS) IN FEET 50.52	[2" diam = x .163 gal/ft 4" diam = x .653 gal/ft]
DEPTH TO WATER (DTW) IN FEET 32.80	PURGE VOLUME IN GALLONS <u>3.4</u>
(DTS-DTW) 17.72	ACTUAL PURGE IN GALLONS

	Time	No. of Gallons Purged	pН	Temp in °C	Conduct in <u>ms/cm</u>	Diss. Oxygen in <u>ma/L</u>	Turbidity	ORP	Comments:	quality, recovery, color, odor, sheen, accumulated silt/sand
	1400	0.1	7.90	16.8	8.460	658	49.21	51.3	×.	
	1421	1	7:39	17.1	0.464	3.22	61.50	25.2		
	1431	2	7.36	16.9	0.467	2.52	17.83	-15.0		
	1441	3	7.55	17.0	0.437	3.24	10.23	-48.7		
sample:	1452	4	7.70	17.2	0.451	4.19	788	-51.9		

Comments:

		Pumping Rate	Depth of
	Method	in GPM	Equip. in Feet
Purge	SS SUBMERSIBLE	0.1	40
Sample	D	11	17

Boils dry?	Yes	No
At no. of a	casing volumes _	
Purge Water D	Disposal Method/N	Volume 4 GALLONS

4

2 Sampling Data

Field Equipment

3)

	# of			
Bottle Type	Containers	Analyses	Preserv.	Filter
0.5 L amber	1	TPH-Dx	¥	
40 mL VOA	3	TPH-Gx, BTEX	HCI]

Type/Brand/Serial No./Material Units

Total number of Bottles

Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D.

Pump Type/Tubing T Bailer Type Filter Type	ype /	PE	Temp/pH/E.C. meter Water Level Probe Other	VSI PRODSS WATERLINE
4 Well Conditions	ок X	Not OK Ex	plain	

HARTCROWSER Groundwater Sampling Data - Well I.D. DMW-12S

	WELL LOCA (e.g., 20' N PROJECT	N of E corne	C. (for new we ber of building er Megable	A)	-	D/	ATE/TIME SAI	MPLED	11/2/2020	1426	
	JOB NO. 1940904					TIDALLY IN			YES	_ NO _	×
	PROJECT M	ANAGER	M Dag	el/M Goo	odman	W		N FEET	50		
	FIELD REPS	<u> </u>	LYTE			s		FERVAL IN F	EET 30	1-501	
1	Purging [ata/Field	Measure	ments:)	All Measure	ements Rel	ative to Top of	f Casing (TO	C)		
	WELL DEPT	н	5	0'		C/	ASING VOLUN	ME IN GALLO	DNS	2.5	
	DEPTH TO S		DTS) IN FE	ET	49,90		[2" diam = x .	163 gal/ft	4" diam = x .65	i3 gal/ft]	
	DEPTH TO V	VATER (DT	W) IN FEET		34.60	 Pl	JRGE VOLUM	IE IN GALLO	NS	2,5	
	(DTS – DTW)		15.3		AC	CTUAL PURG	E IN GALLOI	vs6	5,0	
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct	1 20			8	sheen, accu	very, color, odor, mulated silt/sand
ITTAL	1305	0.1	7.21	16.2	468.2		598.6	23.5	INITIALLY & AD, SLIDA	T SMANDY W	HITE SHEEN
	1327	1.0	6.90	17.3	468.8		146.31	-34-1	MODERATE GA	AY TABIO	IFY, NO,NS
	1344	2.0	6.99	17.0	479.0	1 1.50	72,51	-51.9	SUBURY 7	NRBID, N	O,NS
	1356	3.0	7,00	17.2	460.1	0.90) 43.80	- 63.6	CLEAR, N		·····
-sample:	1408	4.0	6.89	16.8	463,8	8 0.90	7 43.24	1-60.5		4, N	
	Comments:										
		Method		Pumpir in GPM		Depth of Equip. in Fe		oils dry? At no. of c	Yes		No X
	Purge	55 50	в	0,0	97	40	Р	Purge Water Disposal Method/Volume			
	Sample	u		4		ĸ			ITE DRUM		-L
2	Sampling	Data				100					
	Bottle Type	# of Contai	ners Analy	1000		Preserv	. Filter	Total nu	umber of Bottles		
3	0.5 L ambe			PH-Dx							
	40 mL VOA			PH-Gx, BT	EX	HCI			te Sample I.D.		
						í			ank I.D.		
								Rinseat	te Sample I.D.		

Pump Type/Tubing Type	\$5 543/1	PC	Temp/p	H/E.C. meter	451 DSS PRO	
Bailer Type		n nga nga nga nga nga nga nga nga nga ng	Water L	evel Probe	WATER LINE	
Filter Type			Other			
4 Well Conditions	ок 📈	Not OK	Explain			

J:\Docs\Forms\Field & Lab\Groundwater Sampling Data Form.doc

	TIME	GAL	рН	Т	Cono	00	TURS ONP	COMENT
SAMPLE	1408 14 26	4.0 5.0	6.89 6.93	16.8 17.4	463.8 460.1	0.99 0.45	43.24 -60.5 24.12 -75.1	CLEAR, NO NS

,

HARTCROWSER Groundwater Sampling Data - Well I.D. ______13S

	WELL LOCA	TION DES	C. (for new v	vells)	ALLEY	or Col	ores 1	Joen	116 < 5
			ner of building		· · · · · · · · · · · · · · · · · · ·		ant 1	Print and the	1 /
	PROJECT	Merc	er Megab	lock		DAT	E/TIME SAM	PLED	11/3/2020 1050
	JOB NO.	194	0904			TIDA	LLY INFLUE	NCED	YES NO X
	PROJECT M	IANAGER	M Dag	gel/M Goo	odman	WEL	L DEPTH IN	FEET	501
	FIELD REPS	s J	VANDE	EWAL		SCR		- ERVAL IN FE	EET 30-50
1	Purging I	Data/Fiel	d Measur	ements:	All Measuren	nents Relati	ve to Top of	Casing (TOC	 C)
-	WELL DEPT	гн	50'	_		CAS	ING VOLUM	E IN GALLO	ns <u>1.8</u>
	DEPTH TO	SEDIMENT	(DTS) IN FE	ET	49.02	[2	" diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]
	DEPTH TO	WATER (D	TW) IN FEET		37.71	PUR	GE VOLUME	E IN GALLOI	NS <u>5.5</u>
	(DTS – DTW	/)	11.3	2		ACT	UAL PURGE	IN GALLON	vs <u> </u>
	Time	No. of Gallons Purged	рH	Temp in °C	Conduct	Diss. Oxygen in <u>Mar</u> L	Turbidity	ORP in <u>an</u> U	Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
	1010	0.1	7.31	12.3	0.425	5.09	91.17	27.5	
	1724	}	6.90	165	2.331	4.55	45,05	37.5	· · · · · · · · · · · · · · · · · · ·
	1033	1	6.76	166	037	4.95	21.94	39.8	
	1050	3	6.73	166	0.313	4,79	13.20	91.6	
sample:		~							
	Comments						э		
	Johnnonto	•							
				·					

	Method	Pumping Rate	Depth of Equip. in Feet
Purge	SS SUBMERSIBLE	0.07	43
Sample	1	27 .	71

T

Boils dry? Yes At no. of casing volumes	No
Purge Water Disposal Method/Vo JANSTE DRAM	olume <u>3 GRUDDT</u>
Total number of Bottles	4
Duplicate Sample I.D.	
Field Blank I.D.	
Rinseate Sample I.D.	
	1

²) Sampling Data

of

Bottle Type	Containers	Analyses	Preserv.	Filter
0.5 L amber	1	TPH-Dx		
40 mL VOA	3	TPH-Gx, BTEX	HCI	
			_	

3) Field Equipment

(

Type/Brand/Serial No./Material Units

Pump Type/Tubing Type Bailer Type Filter Type	SS SUB / PE	Temp/pH/E.C. meter Water Level Probe Other	VSI PRODSS LANTER LINE
4 Well Conditions		plain	

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HARTCROWSER Groundwater Sampling Data - Well I.D. DMW-14S

JOB NO. PROJECT M	1940	2004				E/TIME SAN	-	11/3/20	60	234
					TIDA	LLY INFLU	ENCED	YES	NO	<u> </u>
	ANAGER	<u> </u>	gel/M Goo	odman	WEL	L DEPTH IN	FEET	51'		
FIELD REPS	1	. Varios	ETWA		SCR	EENED INT	ERVAL IN FE	EET	41-51	<i>;</i>
) Purging D	ata/Field	l Measuro	ements: ,	All Measurei	ments Relati	ve to Top of	Casing (TOC)		
WELL DEPTI	н	51'			CAS	ING VOLUM	IE IN GALLO	NS	.2	
DEPTH TO S	EDIMENT ((DTS) IN FE	ET C	50.32	[2	." diam = x	163 gal/ft	4" diam = x	.653 gal/ft]	
DEPTH TO V		W) IN FEET	- <u> </u>	13.7K	PUR	GE VOLUM	E IN GALLOI	VS	3.6	
(DTS – DTW))		2.06			UAL PURGE	E IN GALLON	IS	3	
Time	No. of Gallons Purged	pН	Temp in °C	Conduct	Diss. Oxygen in <u>m/L</u>	Turbidity	ORP in <u>~ V</u>	Comments		ecovery, color, o
1140	0.1	7.10	15.5	0.473	6.54	192.2	1.1			
1153	1	6.3%	16-1	0.434	3.71	114.2	-365			
1213	2	6.79	17.4	0.324	1.37	82.2	-873	····		
17.34		6.68	17.3	0353	1.31	14.90	-31.0			
		i								
Purge	Method	SALES 19	in GPM	-	epth of quip. in Feet	:	oils dry? At no. of c urge Water D	Yes		No <u>X</u>
Sample							WSITE I			144023
) Sampling	Data # of							Imber of Bott	()	4
Bottle Type			lyses		Preserv.	Filter				
0.5 L amber 40 mL VOA			TPH-Dx TPH-Gx, BT				Duplicat	te Sample I.I	D	ر
	°		<u> </u>	LA	HCI		Field Bla	ank I.D.		-
	-				+		Rinseat	e Sample I.C		
Field Faul	ipment				7	ype/Bran	nd/Serial N	lo./Materi	al Units	
i riela zqu i				1						
Pump Type	/T I. i.e	<	000	1DE	_	emp/pH/E.	•	1/-	12 -	122

4)Well Conditions

Not OK Explain

οк

		ampling Data - We			12.	
Project		ММВ	Date/	Time Sampled	31 912020 11	1630
Job No.		1940904-04	 Tidal	y Influenced	Yes	No
	Manager	M. Dagel	Well	Depth in Feet	<u> </u>	
Field R	eps. (BD AN JB / BL / JH	Scree	ened Interval in F	eet <u>(80-90')</u>	meg
1) Pul	rging Data/Fie	eld Measurements: All M	easurements I	Relative to Top	o of Casing (TO	Queasurett
Well De	epth	90	Casii	ng Volume in Gal	lons 10	.29
Depth o	of Sediment (DTS) in Feet <u>91, 41</u>		ameter = x 0.16	33 gal/ft]	
Depth o	of Water (DTW) ir	Feet <u>28.29</u>		e Volume in Gallo	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	0.567'
(DTS -	DTW)	63.12	Actua	al Purge in Gallor	is <u>></u>	
	No. of Gallons		rbidity ORP NTU in mV Comr	nonto: Quality Rec	overy Color, Odor, Si	heen, Accumulated Silt/Sand
Time	Purged pH	122 2 (1)			< NIC cla	a sufter-likec
rt 1516				of late of	v ivs, cit	1 10010-1 111 00
154	0.57,50		,28 -292.0	Sulter-II	the oddt, is	ss, clear
1542	1.07.55		1.71-326.	3 SUAUT	-like odd	1,55 Clear
ISSI	1.75 7.25	14,2 580 1.49 2	56 -3201		17	11 1/
1604	2.5 7.10	141 705 1.45 2	10 -27 7.8		N N	S, clear
1610	30 7.11	1417421.42 3	.01-2575	1	115	clean
591	mple 163	0 3.5 7.07 748	1.41 1.991-	-257.4	alf dila	der not as stong
- Gomn	omments :		up wit		mp, resel	1700
	Method	Purging Rate in Depth GPM Equipment		s dry?	Yes	No
Purge	55 pump	20.1 -565	At n	o. of Casing Volu	mes	
Sample			Purç	ge Water Disposa	al Method/Volume	turns on sit
2) Sa	mpling Data	4				
Bottle Type	1	Analyses Perserv. Fi	ter	Total N	umber of Bottles	7
VOA.	2	NWTPH-GX HCI	2			A large start party and the second start of the second
amies		HUCCS + BTEX HCL		Duplica	te Sample I.D.	
Doly		Tot Metals HND3	N		ank I.D.	alticitiere internet fatteret fatteret fatteret andere en
poly	1	Diss. Metals HNO3	Y >May b	enot on CO	C Somela I D	
			<u> </u>	Rinsea	e Sample I.D.	·
3) Fi	eld Equipmer	nt	Ty ,	pe/Brand/Ser	ial No./Materia	I/Units
Pum	o Type/Tubing T	ype 55506 F	E Ter	mp/pH/E.C./D.C	YSE]	55
	r Type			ter Level Probe	1.	
	Туре	0.45 MicT	MS Oth	ner		
	~ .	_			1	1 1 1
4) W	ell Condition	S OK	lot OK 🔀 🛛 E	xplain <u>MI-</u>	SING +	- DOIT

Durite at		M	MD.					Date/Time S	ampled	3/ 10/2	020 //	120	5
Project Job No			40904					Tidally Influe			res,	No	
	Manager		Dage					Well Depth i		64:	54	4	
Field R				/ JB / BL /	 H			Screened In		eet/54.3	-64.3)	
	rging Data					Moasu) nece	retu
1) Pu	rging Data	a/Field	Wed		1 5	WEasu.					4		-0-96,
Well D	•	_	6	7.6				Casing Volu			J.	/	
	of Sediment				<u> </u>			[2" diameter			17	2)	
Depth	of Water (DT	ſW) in Fe		79.25	<u> </u>			Purge Volun			与	$\frac{1}{2}$	
(DTS -	DTW)		36	.24				Actual Purge	e in Gallo	ns			
Time	No. of Gallons Purged		°emp n ⁰C	Conduct in uS/cm	Diss Oxygen in mg/L	Turbidity in NTU	ORP in mV	Comments: C	uality, Red	overy Color,	Odor, She	en, Accumulat	ed Silt/Sand
B 1100				502	197	K1.D2	113.4	clear	NK.	slight	SULFU	-like	odor _
1109			39	503	1.84	44,37	46,5	Th	11	NO			
1120	1 × ×		~ 1	503	1.50		9.6	11 L	11	<u>, </u>			
									11	1)			
1207	2.57	-,0617	2.4	000	2.77	16,21	45.						
					1 5-1	11100				<u> </u>			
14WS 1275	<u> 3,0 </u>	.06 1	3,0	497,1	1.58	14,95	0.7	clear,	1001	<u>5</u>			
Comr	nents F	Jow	12	opped	3,40	Jc	tu	med	AU	hif	low	conti	Mer
		to D	im	since	1145	120	07		STEC	hairge			
				10			1			0	F		
			•	g Rate in		oth of		Bails dry?			Yes .	N	Mag
	Metho	bd		BPM	<u> </u>	ent in Feet	1	Dalls ury:	5/00	red	rate		
Purge	655Ubp	mp	20	01	59.	174		At no. of Ca	, asing Volu	imes		٥ <u> </u>	_
- uigo			1		11		1					1- 10-	
Sample	n							Purge Wate	er Dispos	al Method/\	/olume	drum.	<u>s on si</u>
2) S	ampling D)ata											
	T				Democrat	Files] .		Total N	umber of I	Bottles	7	
Bottle Typ	e No of Con			alyses	Perserv.	Filter	-		TURIN		201100		
It in bes			JWT	PA-DX	no	N	1		Duplica	te Sample	e I.D.		
VOA	2		NOC	+BIEX	HCI	<u>q</u>	4			lank I.D.			
poly				<u>netals</u> Metals	HNO2 HNO2	N Y		ybe not a		Idlik I.D.			
Polý	<u> </u>		1000	1.10.1415	TIME	1	- "	yoe in c	Rinsea	te Sample	I.D.		
]						
					<u> </u>								
3) F	ield Equip	oment						Type/Br	and/Sei	rial No./N	laterial/	Units	
					.~					110		<	
Dum		ning Type	е	65am	DIFE			Temp/pH	/E.C./D.() YS	L 12	>	
	p Type/Tub er Type	oing Typ	е	<u>55pm</u>	PITE		-	Temp/pH Water Le			t ps	ne	

nument Ŵ 4) Well Conditions NO OK Not OK PULL UP ALUCEA, PUL back @ 1305 F HC Standards/Field Forms/GW-Well ID

	Gro	undwa	ater S	Samp	ling Da	ata - V	Vell I.	D.	HMW-15
	Projec Job No Projec Field F). t Manager	r	<u>MMB</u> 194090 <u>M. Dag</u> BD/ At		нг (-	Date/Time Sampled 3/1/2020 // 1/15 Tidally Influenced Yes No Well Depth in Feet 20 // Screened Interval in Feet 20 //
	1) Pu	rging D	ata/Fie	9			ll Meası	- ıreme	ents Relative to Top of Casing $(TOC)^{2} - 0.46^{4}$
	Well D Depth	epth of Sedime of Water (ent (DTS	(20^{1}) in Feet) 27.71 24.49	1		- - -	Casing Volume in Gallons 0.52 [2" diameter = x 0.163 gal/ft]Purge Volume in GallonsActual Purge in Gallons
	Time	No. of Gallons Purged	рН	Temp in ^o C	Conduct in uS/cm	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand
START	1004	0.1	6,51	10.3	634	4.41	10.82	74.1	NO, NS, CLEAR : INITIALLY
7	102.5	1.0	6.57	12,1	644	1.69	93.41	- 12.4	INCLORSUL GRAY TURBLOITY
ſ	1056	2.0	6,60	11.9	635	1.68	94.04	-40.4	NO, NS, VALVALE WAN THE.
1		200							
SME	1115	2.5	6.61	11.9	620	1.68	47,78	-435	SLIGHT SHOON, GRAT TURBIDITY, NO
	Comm	ents 5	pulle	Lin	>tub	ing.	179	H.A	HR BUBLES @ 1035 MOVED BALL DOWN 1 PT
			·			0	-		
1 PU	mp wark	<u> </u>							
r	ĸ	Met	hod		g Rate in PM	Dep Equipme			Bails dry? Yes No
	Purge	PORISTA	inc			~26			At no. of Casing Volumes
1	Sample								Purge Water Disposal Method/Volume DRvms on 51125
L									
	2) Sai	npling	Data	AND H	VOL'S+BTE	×			
	ttle Type	No of Co			<u> </u>		Filter		Total Number of Bottles
	AMBER		7	NWTPH-6		HCI	N		Duplicate Sample I.D.
	<u>oly</u> Dly	1		TOT. M Dis. 1		HN03	N Y	(BL
				015.1	- CONTES	HNOZ	_¥	(1411)	E Narow CocField Blank I.D.
~									Rinseate Sample I.D.
	3) Fie	ld Equi	pment						Type/Brand/Serial No./Material/Units
	Pump	Type/Tul	bing Tvr	be	PORIST A	AT11. 1	PE		Temp/pH/E.C./D.O Y5\
	Bailer	•••	U - Jr	-					Water Level Probe WATERLINE
	Filter T			-	0.45	MM			Other
	4) We	ll Cond	itions	-	ок [K	Not OK		Explain <u>Replaced</u> Joelt 3/10/20 HC Standards/Field Forms/GW-Well ID

ΗС	Standards/Field	Forms/GW-Well ID

Sec. and		a - Well I.D.	HMW-2IB	
Project	Broad Block		Date/Time Sampled March	2 2020 /1337
Job No.	19409-04-05		Tidally Influenced Yes	Nox
Project Manager	M. Dagel		Well Depth in Feet 62.8 (bgs)	
Field Reps.	B. Dozier/B. Lytle/J.	Higgins A. Nakahara		2.8 to 62.8 (bgs)
1) Purging Data/Fi	eld Measurement	s: All Measurem	ents Relative to Top of Casing (T	OC)
Well Depth	62.8 (bgs)		Casing Volume in Gallons	1.23
Depth of Sediment (DT	6) in Feet 62.10	1	[2" diameter = x 0.163 gal/ft]	
Depth of Water (DTW)	n Feet 36.15	-1	Purge Volume in Gallons	2.69
(DTS - DTW)	25.95		Actual Purge in Gallons	7,0
No. of Gallons Time Purged pH	Temp Conduct Ox	Diss aygen Turbidity ORP		TI PETTE
1146 O.1 6.31	in °C in \$\$/cm in 14.1752	0-1 011 00 10 10	Comments: Quality, Recovery Color, Odor, S	Sheen, Accumulated Silt/Sand
1.00 1		9794.00 86.3		n), slight odor, No
2010	14.5 756 1.	57 54,72-6.6	Clearer slight	odor NS
1201 20 8.29		50 35.06 -63	Clear 11	NS
1301 3.0 8.18		107 661.57 1B	1.3 dardy off, C	15. Pumpines tak
1310 4.0 8.30	14.5 737 1.	S8 201.36 -87		
1318 5.0 8.29	14.7 753 1.	48 3664 8.2	N / / c	
Comments Pulle	d up Xduker (19/51 - 10/02)	Didnot collect Dig	1 and a stap
- Pur	Purging Rate in	Depth of	lot be restarted	
Method (Gevtech) Purge SVA PMP			Bails dry? Yes	No
Purge SVA Mint	0.12 5	7.0	At no. of Casing Volumes	
Sample (/	11 [56.8	Purge Water Disposal Method/Volume	Drum left on site
2) Sampling Data				
ottle Type No of Containers	Analyses Perse	erv. Filter	Total Number of Bottles	*6
DA 4	NWTPH-Gx, BTEX/HVOCs HCI	no		
5 L nber 1	NWTPH-Dx no		D	
	NWTPH-Dx no Total MTCA Metals HNO	no 13 no	Duplicate Sample I.D.	
	Dissolved MTCA Metals HNC		Field Blank I.D.	
			Rinseate Sample I.D.	
			Type/Brand/Serial No./Material/U	Units
3) Field Equipment				
	Subpumpl	PE	amp/pH/EC/DO KSINS	5
Pump Type/Tubing Typ	e Subpump		emp/pH/E.C./D.O YSIDS	5
	D.45.4M	N	Temp/pH/E.C./D.O VSI DSS Vater Level Probe Wederline	5

HC	Standards/	Field	Forms/GW-Well ID

Proje Job I	-u-			ling D				12 11.01
- JOD I			Broad 19409-				_	Date/Time Sampled March 2 2020 / 10/2
	ect Manage	r	M. Dag				-	Tidally Influenced Yes No x
-	Reps.	4		ier/B. Lytle	e/ L Higgi	ns/A Nak	ahara	Well Depth in Feet 90 (bgs) Screened Interval in Feet 80 to 90 (bas)
							-	(-3.)
1) P	urging L	Jata/FI	ela Me	asurem	ents: A	Measu	ıreme	ents Relative to Top of Casing (TOC)
Well	Depth		90 (bgs				_	Casing Volume in Gallons <u>– 7.69</u>
	h of Sedim				231		-	[2" diameter = x 0.163 gal/ft]
	h of Water	(DTW) i	n Feet	35.9	41		-	Purge Volume in Gallons <u>16.06</u>
	- DTW)			2.21			-	Actual Purge in Gallons
Time	No. of Gallons e Purged	рН	Temp in ^o C	Conduct in mS/cm	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand
1093	0.0	7.59	13.6	508.3	6.67	37.31	-46.9	Clear, NS, petroleum-like (sulfar?)
09.39	110	7.82	14.4	309.1	1.59	29.34	-Y6	1 11 11 II bucketappears dork
947	2.3	7.86	14.5	308.8	1.50	33.06	-4%	b it is in the
095	34.0	7.85	14.7	30X. ().	1.44	25.98	-48.1	
1000	0.30	7.83	143	3051	148	70.72	-45	li alatta a standarda
1000	6.0	7.87	143	307.3	1.46	29.57	-44	c il participation dalla
005		DILA	1 .00	VLVQ	- 200	K 11	11	- CULATI BUEULT OPPEars
Com	ments	<u>fure</u>	aup	AONCE	1 010	0-11 C	11,	Dissolved poly only silled half-may
		-6/2	- Pun	ng shi	4049	<u></u>		
	Met	hod		g Rate in PM		oth of ent in Feet		Bails dry? Yes No
urge	Sub		đ	5.0.7	8.	<u></u>		At no. of Casing Volumes
amole	4			ι.	8	S	1	Purge Water Disposal Method/Volume Drum left on site
ampie	ampling	Data	0					
2) Sa	Т	ntainers	Ana		Perserv.	Filter		Total Number of Bottles 7
2) Sa le Type	Т		Ana NWTPH BTEX/H	l-Gx,		Filter no		Total Number of Bottles7
2) Sa tle Type A L	Т	4	NWTPH BTEX/H	l-Gx, VOCs	HCI	no		
2) Sa tle Type A L ber	e No of Co	4	NWTPH BTEX/H NWTPH Total MT	I-Gx, VOCs I-Dx TCA	HCI no			Total Number of Bottles 7 Duplicate Sample I.D.
ample 2) Sa tle Type A L ber L poly	e No of Co	4	NWTPH BTEX/H NWTPH Total MT Metals	I-Gx, VOCs I-Dx TCA	HCI no	no		
2) Sa le Type A L Der L poly	e No of Co	4	NWTPH BTEX/H NWTPH Total MT Metals	I-Gx, VOCs I-Dx ICA ed MTCA	HCI no HNO3	no no		
2) Sa le Type A L Der L poly	e No of Co	4	NWTPH BTEX/H' NWTPH Total MT Metals Dissolve	I-Gx, VOCs I-Dx ICA ed MTCA	HCI no HNO3	no no no		Duplicate Sample I.D. Field Blank I.D.
2) Sa tle Type A L ber L poly	e No of Co	4 1 1 1	NWTPH BTEX/H' NWTPH Total MT Metals Dissolve	I-Gx, VOCs I-Dx ICA ed MTCA	HCI no HNO3	no no no		Duplicate Sample I.D.
2) Sa the Type A L Der L poly L Poly 3) Fig	e No of Co	4 1 1 0 0 0 0 0 0 0 0 1	NWTPH BTEX/H NWTPH Total MT Metals Dissolve Metals	I-Gx, VOCs I-Dx ICA ed MTCA	HCI no HNO3	no no no		Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D. Type/Brand/Serial No./Material/Units
2) Sa the Type A L ber L poly L Poly 3) Fie	e No of Co	4 1 1 0 0 0 0 0 0 0 0 1	NWTPH BTEX/H NWTPH Total MT Metals Dissolve Metals	I-Gx, VOCs I-Dx ICA ed MTCA	HCI no HNO3	no no no	1	Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D. Type/Brand/Serial No./Material/Units Temp/pH/E.C./D.O
2) Sa tle Type A L ber L poly L Poly 3) Fie	e No of Co	4 1 1 0 0 0 0 0 0 0 0 1	NWTPH BTEX/H NWTPH Total MT Metals Dissolve Metals	I-Gx, VOCs I-Dx ICA ed MTCA	HCI no HNO3 HNO3	no no no	ר v	Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D. Type/Brand/Serial No./Material/Units

	Gro	undw	ater S	Samp	ling D	ata - I	Nell I.	D.	HMW-2IA			
	Project	1		Broad	Block				Date/Time Sampled	March	2020	13 27
	Job No).		19409-	04-05			-	Tidally Influenced	Ye		Nox
	Project	Manage	r	M. Dag	el			-	Well Depth in Feet	44.8 (bgs)		
	Field R	leps.		B. Doz	ier/B. Lytle). Higgir	ns/A. Nak	ahara	Screened Interval in Fe		34.8 to 44.8	(bgs)
	1) Pu	rging D	ata/Fie	eld Me	asurem	ents: A	ll Measu	ıreme	ents Relative to Top	of Casina	(TOC)	
	Well D			44. 8 (b							n 40	
		of Sedime	ont (DTS			291			Casing Volume in Gallo		2.17	
		of Water			27.1			-	[2" diameter = x 0.163 Purge Volume in Gallor	• •	4 99	
	(DTS -		(2)"		6.3	í –		-	Actual Purge in Gallons		AZISE	D 10.5
	·	No. of			ms/cm BL		1	-		· ····	1000	0.5
	Time	Gallons Purged	рН	Temp in °C	Conduct	Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recov	very Color, Oc	lor, Sheen, Acc	umulated Silt/Sand
x	1215	0.1	7.66	14.6	0.534	2.85	79.13		INMALLY ELIGHT GRAY TURO			
	1224	1.0	7.42	14.6	0.557	0.76	37.11		NS, SLIGHT FISHY POOR, 6			
	1230	2.0	7.36	14.6	0.585	0.36	11.96	- 88.6		1	/	
	1235	3.0	7.38	14.5	0,603	0.22	5.93	-95.9				
ι.	1241	4.0	7.39	14.6	0.609	0.16	4.35	-99.8	NS, NO ODOR CLEAR			*)
SMPL	1247	5,0	7.40	14.6	0.619	0.11	3.22	-103,0	E-Child			
				Purgin	AL GD (C)	1412. Dep	oth of		ISTE BAMELS @ THE	C		
			100		BPM	39.8 '	nt in Feet		Bails dry?	Ye	s]	No
F	Purge	SSEURP		0.1	3				At no. of Casing Volume	es	<u> </u>	· · · · · · · · · · · · · · · · · · ·
S	ample	55 PUM	Q	0.0	8	39.8	١		Purge Water Disposal N	/ethod∕Volu	me Drum	left on site
	2) Sai	mpling	Data						- -			
Bot	tle Type	No of Co	ontainers		alyses	Perserv.	Filter		Total Num	ber of Bott	les	7
10	A		4	NWTPH BTEX/H		нсі	no					· · ·
).5										•		
-\(11	Dei		1	NWTPI Total M		no	no		Duplicate	Sample I.D)	
0.5	L poly		1	Metals		HNO3	no					
).5	L Poly		1	Metals	ed MTCA	HNO3	yes		Field Blan	k I.D.		
									Rinseate S	Sample I.D		
	3) Fie	ld Equi	pment		e.			2	Type/Brand/Serial			
	Pump	Type/Tu	bina Tvi	0e	55	PE			Temp/pH/E.C./D.O			
	Bailer								Water Level Probe		LLINE	
	Filter T	••			0 J G	, µm					<u>сс"в</u>	
		300			0,40	nm.			Other			

4) Well C	onditions
-----------	-----------

OK

Х

Not OK

Explain

HC Stand	arde/biolo	hormo(//	VAT MUCHINE
HC Standa		r Funns/G	AA-AAGU IP

	-103,0	3,22	0.1(0.619	14.6	7,40	5.0	1247
NOTES	orto . MV	WNJ NN	00 mg/2	cano m5/cm	T °C	pН	GALLONS	TIME
NS, NO, CLOOR				0.624			6.0	1251
NS, SLIGHT FISTLY ODDA, CLENN				0.626				1257
11 11 11				0.629				1303
NS, NO, LUBAN, FLOW RATE OFFREASOD	presentil LAUY BATTONY? -107-1	2.65	0.05	0.633	14.5	7.43	9,0	1310
NS, NO, CLORAL.				0.634				
	-109.2	2.50	0.02	0.637	14,8	7.42	10.5	1327 SMPL

x-

8

D ·	Martin P	and the second se		Ū	ald -	Well I.	.	HMW-2			
Projec			Broad				_ Da	ate/Time Sampled	March	12	2020 /1337
Job N			Barris Contraction of the local distance of the	-04-05			Tie	ally Influenced	١	′es	Nox
	ct Manage	ər	M. Dag				and the state of the	ell Depth in Feet	62.8 (bg	s)	
Field						ins A. Nal	-	reened Interval in	Charles and the second		62.8 (bgs)
1) Pi	urging l	Data/Fi	ield Me	asurem	ents: /	All Meas	irement	Relative to To	p of Casin	g (TOC)	
Well [Depth		62.8 (b	ogs)			Ca	sing Volume in Ga	llons	Ц.	23
	of Sedim		A	t_62.	10'		[2"	diameter = $x 0.1$	63 gal/ft]	-	
	of Water	(DTW) i	n Feet	36	15	<i>t</i>	. Pu	rge Volume in Gal	lons	12.	.69
(DTS -	- DTW)			25.94	5		Ac	tual Purge in Gallo	ns	.7,	0
Time	No. of Gallons Purged		Temp in °C	Conduct in S/cm				nments: Quality, Red	covery Color)dor Sheen	, Accumulated Silt/Sand
1146	0.1	631	14.1	752	1.97	94,00	86.7 i	nitially to	Thid h		Slight odor, N
1153	[.0	8.28	14.5	756	1.57	54.72	-6.6	Clearer	Clic	ht od	ALC ALC
1201	2.0	8.29	145	758	1.50	35.06	-63	Clear	- <u>j - ()</u>	11	NC
1301	3.0	8.18	14,2	724	2.02	661.57	164.3	3 dayly	ola	, NS	Pimpines tak
1310	4.0	8.30	14.5	737	1.58	201.36	871	dearor	1 odr	as	Ontanddea
1318	5.0	8.19	14.7	753	1.48	35.64	8.2	. \	do	NS	Gallacased
Comm	nents	Pulle	dup	Xdure	F (190	51-15	5	Didnotto	llert	07.1	depty
		DIAN	nosh	h. h. a.f	1 1	ad las	11 hos	F Ge CO	1001	PISSOL	~~~ 6/ r.
			T	· · ·	<u> </u>	MACOL	W		started		
				g Rate in SPM		oth of					
	Met	noa	G			ni in Feet	Bai	s dry?	Ve		
ourge	Gented Sub Pi	3	O.	12	57.	ent in Feet		s dry? o. of Casing Volur	Ye	es	No
ourge	Geoted	mp	0. 11	12	57.	A	At r	o. of Casing Volur	nes		
18	Geoted SUD P	mp	0.	12	57.	A	At r	u ∧u Networ ● (***)	nes		No
ample	Geoted SUD P	mp	0.	12	57.	A	At r	o. of Casing Volur	nes		
ample 2) Sai	Geoted SUD P	Data	O. It	12 Ilyses	57.	A	At r	o. of Casing Volur ge Water Disposal	nes Method/Volu		
ample 2) Sar	Geoted SUA P	Data ntainers	O. It Ana NWTPH	IZ Ilyses I-Gx,	57. 56. Perserv.	Filter	At r	o. of Casing Volur ge Water Disposal	nes		
ample 2) Sai le Type A L	Geoted SUA P	Data ntainers 4	Ana NWTPH BTEX/H	llyses I-Gx, VOCs	57.	8	At r	o. of Casing Volur ge Water Disposal	nes Method/Volu		
ample 2) Sai tle Type A L	Geoted SUA P	Data ntainers 4	Ana NWTPH BTEX/H	l/Z l-Gx, VOCs l-Dx	57. 56. Perserv.	Filter	At r	o. of Casing Volur ge Water Disposal Total Nu	nes Method/Volu		
ample 2) Sar de Type A L per	Geoted SUA P	mp Data ntainers 4 1	Ana NWTPH BTEX/H NWTPH Total MT Metals	IZ I-GX, VOCs I-DX TCA	57. 56. Perserv. HCI	Filter no	At r	o. of Casing Volur ge Water Disposal Total Nu	nes Method/Volu mber of Bot		
ample 2) Sai le Type A L per L poly	Geoted SUA P	mp Data ntainers 4 1	Ana NWTPH BTEX/H NWTPH Total MT Metals Dissolve	IZ I-GX, VOCs I-DX ICA ad MTCA	57. 56. Perserv. HCI no HNO3	Filter no no no	At r	o. of Casing Volur ge Water Disposal Total Nu Duplicate	nes Method/Volu mber of Bot		
ample 2) Sai le Type A L per L poly	Geoted SUA P	mp Data ntainers 4 1	Ana NWTPH BTEX/H NWTPH Total MT Metals	IZ I-GX, VOCs I-DX ICA ad MTCA	57. 56. Perserv. HCI no	Filter no no	At r	o. of Casing Volur ge Water Disposal Total Nu	nes Method/Volu mber of Bot		
ample 2) Sai le Type A L per L poly	Geoted SUA P	mp Data ntainers 4 1	Ana NWTPH BTEX/H NWTPH Total MT Metals Dissolve	IZ I-GX, VOCs I-DX ICA ad MTCA	57. 56. Perserv. HCI no HNO3	Filter no no no	At r	o. of Casing Volur ge Water Disposal Total Nu Duplicate Field Bla	nes Method/Volu mber of Bot	ume <u>D</u> tles	
ample 2) Sai le Type A L Der L poly L Poly	Geoted SUA P	Data Data 1 1 1	Ana NWTPH BTEX/H NWTPH Total MT Metals Dissolve	IZ I-GX, VOCs I-DX ICA ad MTCA	57. 56. Perserv. HCI no HNO3	Filter no no no	At r	o. of Casing Volur ge Water Disposal Total Nu Duplicate Field Bla	nes Method/Volu mber of Bot Sample I.E nk I.D. Sample I.D	ume <u>D</u> tles)	erum left on site
ample 2) Sai de Type A L poly L Poly L Poly 3) Fiel	Geoted SJA P I mpling No of Co	Data Data I I I Doment	Ana NWTPH BTEX/H NWTPH Total MT Metals Dissolve Metals	IZ I-GX, VOCs I-DX ICA ad MTCA	57. 56. Perserv. HCI no HNO3	Filter no no no	At r Pur Typ	o. of Casing Volur ge Water Disposal Total Nu Duplicate Field Bla Rinseate	nes Method/Volu mber of Bot Sample I.E nk I.D. Sample I.D	ume <u>D</u> tles)	erum left on site
ample 2) Sai de Type A L Der L poly L Poly 3) Fiel Pump	Geoted SUA P I Mo of Co	Data Data I I I Doment	Ana NWTPH BTEX/H NWTPH Total MT Metals Dissolve Metals	IZ I-GX, VOCs I-DX ICA ad MTCA	57. 56. Perserv. HCI no HNO3	Filter no no no	At r Pur Tyr Tem	o. of Casing Volur ge Water Disposal Total Nu Duplicate Field Bla Rinseate pe/Brand/Seria	nes Method/Volu mber of Bot Sample I.E nk I.D. Sample I.D	ume <u>D</u> tles)	erum left on site
ample 2) Sai le Type A L poly L Poly L Poly 3) Fiel	Geoted SJA P I Mo of Co I I d Equip Type/Tub	Data Data I I I Doment	Ana NWTPH BTEX/H NWTPH Total MT Metals Dissolve Metals	IZ IJyses I-Gx, VOCs I-Dx TCA Ed MTCA Ed MTCA	57. 56. Perserv. HCI no HNO3	Filter no no no	At r Pur Tyr Tem	o. of Casing Volur ge Water Disposal Total Nu Duplicate Field Bla Rinseate pe/Brand/Seria	nes Method/Volu mber of Bot Sample I.E nk I.D. Sample I.D	ume <u>D</u> tles)	erum left on site

HC Standards/Field	Forms/GW-Well ID
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time 9allors 1327 6.0 1332 6.5 1337 7.0	PH TO 8.29 IV; 8.29 IV; 8.29 IV; 8.29 IV;	7 752 1.44	17.04-46.8 2 15.98-66.2	NS, SO, Clear

	Gro	undwa	ater S	Samp	ling D	ata - V	Vell I.I	D.	HMW-2S	
	Project			Broad	Block				Date/Time Sampled	March 12 2020 1033
	Job No			19409-	04-05			-	Tidally Influenced	Yes No x
		Project Manager M. Dagel Field Reps. B. Dozier/B. Lytle/J. Higgins/A. Nakaha		_	Well Depth in Feet	29.5				
	Field R			ahara	Screened Interval in Fe	et 19.5 to 29.5				
	1) Pu	rgi <mark>ng</mark> D	ata/Fie	d Me	asurem	ents: A	ll Meası	ureme	ents Relative to Top	of Casing (TOC)
	Well D	•		29.5				_	Casing Volume in Gallo	ons 0.79
		of Sedime						_	[2" diameter = x 0.163	•
	-	of Water (DTW) in	Feet	24.7	+*	· .	-	Purge Volume in Gallor	
	(DTS -				4.84			-	Actual Purge in Gallons	-3-5-BD 2.0
		No. of Gallons		Temp	Conduct	Diss Oxygen	Turbidity	ORP		
	Time	Purged	pH	in °Ć	in mS/cm	in mg/L	in NTU	in mV	Comments: Quality, Recov	very Color, Odor, Sheen, Accumulated Silt/Sand
START	1002	0.1	7.01	13.3	0.584	4.81	6.22	124,6	IN MALLY CLEAR, NO, NS	
	1010	0.5	6.70	13,5	0.574	2.38	4.99	124.8	CLEAR, NS, NO	
	1018	1.0	6.67	13.6	0,563	1.78	5,83	122.4	clear, NS, ND	
	1027	1.5	6.67	13,5	0.566	1.62	12,06	124.9	И И м	
_	1033	2.0	6.67-	13.5						
SMPL	1033	2.0	6.67	13.5	0.567	1.62	15,71	127.8	w 11	
			-	Purgin	g Rate in	Dep	th of	40 	E	
—		Met	nod		SPM	Equipme	nt in Feet		Bails dry?	YesNo_X
F	urge	PORISMUTI		0.0	ь <u>с</u>	26			At no. of Casing Volume	es
Sa	ample	PERISTALT	٦Ļ	0.0	065	261			Purge Water Disposal N	/lethod/Volume Drum left on site
	2) Sar	npling	Data							
Bot	tle Type	No of Co	ntainers	An	alyses	Perserv.	Filter		Total Num	ber of Bottles 7
vo	Α		4	NWTPH BTEX/H	H-Gx,	НСІ	no		27	
0.5 Am				NWTPH		no	no		Dunlicate	Sample I.D.
	L poly			Total M Metals		HNO3	no		Duplicate	
	L Poly				ed MTCA	HNO3	yes		Field Blan	k I.D.
									Rinseate S	Sample I.D.
	3) Fie	ld Equi	pment							No./Material/Units
						nc / pf	:		Temp/pH/E.C./D.O	YSL DSS
	Pump	Type/Tul	oing Typ)e	Peristant	nu je				131 033
	Pump ⁺ Bailer ⁻		oing Typ)e	Perlistan				Water Level Probe	
		Туре	ping Typ)e	Peristan 0.45					WATERLINE

Eye.

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HC S	tandards	s/Field	Forms/	GW-Well	1C

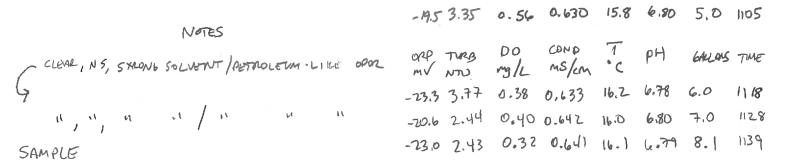
Grou	undwater _. S	ampling D	ata - W	ell I.D.	HMW-3D)		
Field R	o. Manager eps. (Broad Block 19409-04-05 M. Dagel B. Dozier/B. Lytle			Date/Time Sampled Tidally Influenced Well Depth in Feet Screened Interval in Fe		3 2020 80 to 90 (bgs	No X No X)-7 sacys 82-92
Well Depth of	epth of Sediment (DTS) of Water (DTW) in	90 (bgs)) in Feet			Casing Volume in Gallo [2" diameter = x 0.163 Purge Volume in Gallor Actual Purge in Gallons	ons 3 gal/ft] ns	7.92 23.76 6.0	,
Time 1057 1057 1106 1125 1141 1207 Comm	No. of Gallons Purged pH 1.07.93 2.07.14 3.07.15 4.07.21 5.07.22 6.07.22 6.07.21 ments py (we rea pi Method	15.8 579 13.6 592 15.0 588 14.9 585 14.7 583	in mg/L 2.165 1.65 1.57 1.43 1.41 1.41	39.11 6.6 31.96 -49 56.29-190 26.91 -21 2.01 -23 7.03 -23	1 turbid, 105,	jil (brou islights , petro. 55, NO	n)Astight heen, pe -like ad	petro-likeador tro-likeador
Purge Sample	sub pump	10.05	11	+ 84,	At no. of Casing Volume		e Drum I	eft on site
2) Sar Bottle Type VOA 0.5 L Amber		Analyses NWTPH-Gx, BTEX/HVOCs NWTPH-Dx Total MTCA	HCI n	ilter 10		nber of Bottle Sample I.D.	9S	7
0.5 L poly 0.5 L Poly		Metals Dissolved MTCA Metals		io	Field Blan Rinseate S	ik I.D. Sample I.D.		
3) Fie	ld Equipment				Type/Brand/Serial	No./Mater	ial/Units	
Pump Bailer ⁻ Filter T			ump/ 1 ump/ 1	PE	Temp/pH/E.C./D.O Water Level Probe Other	YSE D water	ss line	
4) We	ell Conditions	ОК	N	Not OK	Explain Monum	HC Standar	ds/Field Forms	GVV-VVell ID

	Groundwater Sampling Data - Well I.D.						Vell I.I	D.	HMW-3IA			
	Project Job No.			Broad I 19409-				-	Date/Time Sampled	THEIR OFF	3 2020	
		Manager		M. Dag				-	Tidally Influenced	Yes		Nox
	Field R				er/B. Lytle			• abara	Well Depth in Feet Screened Interval in Fe	44.8 (bgs)	24.9 to 44.0	(h +)
		-			$\mathbf{\Sigma}$				ents Relative to Top		34.8 to 44.8	(bgs)
						ans. A	I MEASL	<i>ii ei ii</i> e		-	2.67	
	Well De	pun If Sedime		44.8 (b		o'		-	Casing Volume in Gallo		6.01	
	-	f Water (29.29			•	[2" diameter = $x = 0.163$		8.01	
	(DTS - I		0100)11	i eet	10.39			-	Purge Volume in Gallon			
					10001				Actual Purge in Gallons		<u> 8-10</u>	
	Time	No. of Gallons Purged	pН	Temp in °C	Conduct in mS/cm	Diss Oxygen in mg/L	Turbidity in NTU	ORP in mV	Comments: Quality, Recov	verv Color. Odr	or Sheen Acc	mulated Silt/Sand
NAT	1003	0.1	6.86	14.0	0.629	4.41	14.60	111.7	IN MALLY CLOAR, NS, NO			
	1017	1.0	6.39	15.8	0.653	0.41	7.36	5.4	CLEAR NS NO			· · · · · · · · · · · · ·
	1030	2.0	6.72	15.9	0,629	0.47	4.63		CLEAR NS, STRONG SOL	inst Dr. An		000
	1043	3.0	6.77	16.0	0,620	0.58	4.41	-21.6		VENT / PERIO	I EVM CONCE	UITAL
	1054	4.0	6.80	15.9	0.623	0.71	4.33	-16.4		UNA TLOO	-20-11/F	00.94
	1105	5,0	6.80	15.8	0.630	0.56	3.35	- 19,2		N / 11	() ()	
(P)	L						·	i	J J WING	/	CONTINI	TEN ON BACK
	Comm	ents TRA P	SOUDS	r out	VEWEU	E0915.	-1240	<u> </u>				
							_					
								1				
		Met	hod	-	g Rate in PM		th of int in Feet		Bails dry?	Yes		NoX
	Purge	SS BUGN	10151AUE	0.	1	39.8	ł 		At no. of Casing Volume	es	_	
s	ample	ss subr	ion sidue	0.	• {	39.8)		Purge Water Disposal N	/lethod/Volun	ne <u>Drum</u>	left on site
	2) Sar	npling	Data									
								1	— (),),			_
Во	ttle Type	No of Co	intainers	An: NWTPI	alyses I-Gx,	Perserv.	Filter		I otal Num	ber of Bottle	es	7
VC			4	BTEX/H	IVOCs	HCI	по					
0.5 An	ber		1	NWTP		no	no		Duplicate	Sample I.D.		
0.5	L poly	×	1	Total M Metals		HNO3	no			-		
	L Poly				ed MTCA	HNO3	yes		Field Blan	k I.D.		
					·				Rinseate	Sample I.D.		

3) Field Equipment

Pump Type/Tubing Type Bailer Type Filter Type	<u>55 / PE</u> 0.45 µm	Temp/pH/E.C./D.O Water Level Probe Other	VSS DSI WATER LINE
4) Well Conditions] Explain <u>Flooren</u>	MONNAGNT HC Standards/Field Forms/GW-Well ID

Type/Brand/Serial No./Material/Units



	Groundwater Sampling Data - Well I.D.						HMW-4IA		
Project	Project Broad Block						Date/Time Sampled March 10 2020 1730		
Job No).		19409-	04-05			-	Tidally Influenced Yes No x	
Project	Project Manager M. Dagel Field Reps. B. Dozie K. Lytle J. Higgins/A. Nakahara						-	Well Depth in Feet 59.75	
Field F					J. Higgir	ns/A. Naka			
1) Pu	rging D	ata/Fie	\sim					ents Relative to Top of Casing (TOC)	
								2 97	
Well D	•		<u>59.75</u>	57.	271	Ctro al	Bonga		
	of Sedime of Water (72 0	841	[Sel. 25	NETUR	[2" diameter = x 0.163 gal/ft]	
(DTS -		0100)11	reel	23.	13'		-	Purge volume in Gallons	
$(\rho)^{-1}$	-			270			-	Actual Purge in Gallons <u>3.15</u>	
	No. of Gallons		Temp	Conduct	Diss Oxygen	Turbidity	ORP	initially	
Time	Purged	рН	in °C	in S/cm	in mg/L	in NTU	in m∨	Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sa	
KHEO2	1.5	8.A	14.3	555	2,01	79.00	140.1	TURBIP, PULLOD PUMP UP 2', GNAY TURBIDITY, NO, NS	
1700	2.5 BV	8.20	16.6.	55 S	1.58	31.14	98.9	NO, NS, CLEAR	
1715	3.0	8.17	16.3	556	1.52	15.02	78.3		
1730	3.75	8,18	16.8	556	1.48	12.06	59,2		
SIMPL									
1			<u>.</u>			[
Comm	ients								
ook a	+ ~ 1.	3/ // e		12	*17				
	<u>n nai</u>	ma_	153	3-1-	010		1		
	Met	hod		g Rate in SPM		Equipment Feet		Bails dry? Yes No	
	Bung	,	DoC)3	54	1 52.4	1		
Purge	point					·T 53.5*	BL	At no. of Casing Volumes	
Sample	1	×	(I		52	.4		Purgo Water Disposed Method/Volume	
Campio	I						I	Purge Water Disposal Method/Volume Drum left on site	
2) Sa	mpling	Data							
Bottle Type	No of Co	ntainers		alyses	Perserv.	Filter		Total Number of Bottles8	
/OA		4	NWTPH BTEX/H		НСІ	no			
).5 L	1		NWTP					_	
Amber		2	PAHs Total M	TCA	no	no		Duplicate Sample I.D.	
).5 L poly		1	Metals	-	HNO3	no			
).5 L Poly		1	Dissolv Metals	ed MTCA	HNO3	VAS		Field Blank I.D.	
			Media	*		yes			
	[Rinseate Sample I.D.	
	<u>l</u>								
3) Fie	ld Equi	pment						Type/Brand/Serial No./Material/Units	
				66 o	1015	75			
Pump	Type/Tul			55 p.M	nplf	26		Temp/pH/E.C./D.O	
	Type/Tul Type			55 pm	nel f	26			

	nanator o	ampiing Da	nta - Well I.E	D. HMW-5IB
Project		Broad Block		Date/Time Sampled March 17 2020 / 1333
Job No.	-	19409-04-05		Tidally Influenced Yes No x
Project I	- Manager	M. Dagel		Well Depth in Feet 62.2
Field Re		the second se	J. Higgins/A. Naka	hara Screened Interval in Feet 52.2 to 62.2
				rements Relative to Top of Casing $(TOC) = 2.49^{\circ}$
Well De	pth	62.2		Casing Volume in Gallons 4.67
	f Sediment (DTS)	in Feet 63.0	191	[2" diameter = x 0.163 gal/ft]
	f Water (DTW) in		51	Purge Volume in Gallons 14,00
(DTS - [28.641		Actual Purge in Gallons
	No. of		Diss	
T !	Gallons Purged pH	Temp Conduct in °C in ##S/cm	Oxygen Turbidity in mg/L in NTU	ORP in mV Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/San
+ 1117	0-1 6.72	14.6 555	1.56 17,71	minary clear, NO, NS
1121	1.0 7.15			52.B clear, NO, NS
1133	2.0 7.34	14.9 556	0.24 4,88	-2017 clear, NO, NS
1145	3.0 7.35	15.0 555	0.16 3.38	-40.9 clear, NO, NS
2 1156	4.0 7.35	15.1 553	0.18 4.16	-48,0 clear, NO, NS
207	50736	15.2552	0.13495	-54.6 cleart, NO.N.S
	620	- TENET		
Comm	ents <u>A</u>	-10001	\sim	12
			-	
	Method	Purging Rate in GPM	Depth of Equipment in Feet	Bails dry? Yes No X
	Monsoon	OI	54.7	
	55500 pmp			At no. of Casing Volumes
Purge	21.70 0 1-1			
Purge Sample	11	1 (54,71	Purge Water Disposal Method/Volume Drum left on site
Sample			54,71	Purge Water Disposal Method/Volume Drum left on site
Sample 2) Sai	. lx	۱ (Analyses	54,71 Perserv. Filter	Purge Water Disposal Method/Volume Drum left on site Total Number of Bottles 8
Sample 2) Sar Bottle Type	npling Data	۱ (Analyses NWTPH-Gx,	Perserv. Filter]
Sample 2) Sar Bottle Type VOA	npling Data	۱ (Analyses NWTPH-Gx, BTEX/HVOCs]
Sample 2) Sai Bottle Type VOA D.5 L	ا م m pling Data No of Containers 4	Analyses NWTPH-Gx, BTEX/HVOCs NWTPH-Dx, PAHs	Perserv. Filter]
Sample 2) San Bottle Type VOA 0.5 L Amber	ار م m pling Data No of Containers 4 2	Analyses NWTPH-Gx, BTEX/HVOCs NWTPH-Dx, PAHs Total MTCA	Perserv. Filter HCI no no no	Total Number of Bottles 8
Sample 2) Sai Bottle Type VOA 0.5 L Amber	ار م m pling Data No of Containers 4 2	Analyses NWTPH-Gx, BTEX/HVOCs NWTPH-Dx, PAHs Total MTCA Metals	Perserv. Filter HCI no	Total Number of Bottles 8
Sample 2) San Bottle Type VOA 0.5 L Amber 0.5 L poly	No of Containers	Analyses NWTPH-Gx, BTEX/HVOCs NWTPH-Dx, PAHs Total MTCA	Perserv. Filter HCI no no no	Total Number of Bottles 8
Sample 2) San Bottle Type VOA 0.5 L Amber 0.5 L poly	No of Containers	Analyses NWTPH-Gx, BTEX/HVOCs NWTPH-Dx, PAHs Total MTCA Metals Dissolved MTCA	Perserv. Filter HCI no no no HNO3 no	Total Number of Bottles 8 Duplicate Sample I.D.
Sample 2) Sau Bottle Type VOA 0.5 L Amber 0.5 L poly 0.5 L Poly	No of Containers	Analyses NWTPH-GX, BTEX/HVOCs NWTPH-DX, PAHs Total MTCA Metals Dissolved MTCA Metals	Perserv. Filter HCI no no no HNO3 no	Total Number of Bottles 8 Duplicate Sample I.D.
Sample 2) San Bottle Type VOA 0.5 L Amber 0.5 L poly 0.5 L Poly	No of Containers	Analyses NWTPH-GX, BTEX/HVOCs NWTPH-DX, PAHs Total MTCA Metals Dissolved MTCA Metals	Perserv. Filter HCI no no no HNO3 no HNO3 yes	Total Number of Bottles 8 Duplicate Sample I.D.
Sample 2) Sau Bottle Type VOA 0.5 L Amber 0.5 L poly 0.5 L Poly 0.5 L Poly	No of Containers	Analyses NWTPH-Gx, BTEX/HVOCs NWTPH-Dx, PAHs Total MTCA Metals Dissolved MTCA Metals	Perserv. Filter HCI no no no HNO3 no HNO3 yes	Total Number of Bottles 8 Duplicate Sample I.D.

4) Well Conditions

Contraction of the second seco	Water Level P
0.45 um	Other
OK Not OK	Explain

HC Stan	dards/Field	Forms	GVV-V	Vell IL

	Time	#6el Purged	PH	Temp	Lond Lestom	DO MglL	TUTO	OBP	Comments
	1217	6.0	7.36	15.2	551	0.11	3,65	1-59.1	clear, NO, NS
	1227	7.0	7.37	15.2	551	0.10	3.20	-62,5	clear, NO, NS
ĺ	1236	8.0	7.36	15.3	550	0.06	2.96		clear, NO, NS
	1245	9.0	7.37	15,1	550	0.04	2.79	-60.7	
	1257	16.0	7.37	15.4	549	0.04	2,73	-71.3	ti h li
	1305	11.0	7,36	15.6	549	0.02	2.87	-72.6	te te le
ľ	1313	12.0	7.37	15.6	54-8	0.06	2.51	-73.2	er er el
	1323	the second se	7.37	15,6	544	0.03		-75.4	li li y
SMPL	1332	14,0	7.37	15.6	549	0.01	2.64	-77.3	le ce le

	Gro	undwa	ater S	amp	ling Da	ata - V	Vell I.I) .	HMW-6D		
	Project	:		Broad E	Block				Date/Time Sampled March 16 2020 1040		
	Job No) <u>.</u>		19409-	04-05			•	Tidally Influenced Yes No x		
	Project	Manager							Well Depth in Feet 92.4		
	Field R	eps.		B. Dozi	er/B. Lytie	Q. Higgin	s/A. Naka	hara	Screened Interval in Feet 82.4 to 92.4		
	1) Pu	rging D	ata/Fie	ld Mea	asureme	nts: Al	l Measu	reme	ents Relative to Top of Casing (TOC) $\pi_0 c = 3.21' = 0.32' = 2.88'$ Abs		
	Well De	epth		92.4					Casing Volume in Gallons 7.81		
	Depth of	of Sedime	ent (DTS)	in Feet	95.3	3'			[2" diameter = x 0.163 gal/ft]		
	Depth o	of Water (DTW) in						Purge Volume in Gallons 23.7		
	(DTS -	DTW)			48.42'				Actual Purge in Gallons 5,0		
	Time	No. of Gallons Purged	pН	Temp in °C	Conduct	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand		
STAR+	0956	0,1	8.05	14,5	642	2.88			INT DALLY SLILM FORAT JURSI DIMY, NS, ALD		
	1007	1.0	8.36	15.0	641	1.61			MILO 6041 TURBIDITY , NS, SLIGHT SOLVENT -LIKE MOR		
	1018	2.0	8.43	15.8	628	1.43	35.7b	-465,6	CUERL, NO, NS		
	1025	3.0	8.51	K.8	626	1.40	17.29	-474.1			
Ļ	1032	4.0	8.47	16.0	629	1.36	14.41	-528.	8 M M M		
SMPL	1040	5.0	8.44	15.8	628	1.36	16.47	- 534.5	the second se		
	Comm	ents	TOL.	15~2	.88 AD	we known	10 SINCALE				

Bails dry?

At no. of Casing Volumes

Purge Water Disposal Method/Volume

Total Number of Bottles

Duplicate Sample I.D.

Rinseate Sample I.D.

	Method	Purging Rate in GPM	Depth of Equipment in Feet
Purge	55 Sutmessions	0.1	87.4'BLS 90.3'STOC
Sample	SS SUGMERES BLE	0.1	87,4'515 20,3'673C

2) Sampling Data

Bottle Type	No of Containers	Analyses	Perserv.	Filter
		NWTPH-Gx,		
VOA	4	BTEX/HVOCs	нсі	no
0.5 L		NWTPH-Dx,		
Amber	2	PAHs	no	no
		Total MTCA		
0.5 L poly	1	Metals	HNO3	no
		Dissolved MTCA		
0.5 L Poly	1	Metals	HNO3	yes

3) Field Equipment

Pump Type/Tubing Type	_55
Bailer Type	
Filter Type	
4) Well Conditions	C

55 51	lmorsiter	/PE
0.4	5 hm	
OK	, X	Not OK

Type/Brand/Serial No./Material/Units

Field Blank I.D.

Temp/pH/E.C./D.O	<u>Y9</u> 055	
Water Level Probe	WATERLINE	
Other		
Explain		

Yes

Drum left on site

8

	Grou	unawa		amp	ling D	ata - V	Vell I.I	D.	HMW-6IA				
	Project			Broad	Block		5 Dr. 8.0 W	8	Date/Time Sampled	March	13	2020	11545
	Job No			19409-04-05								Nox	
	Project	Manager		M. Dag	el			_	Well Depth in Feet	50.	25		
	Field R	eps.		B. Dozi	ier/B. Lytle	/J. Higgir	ns/A. Naka	ahara	Screened Interval in Fee	et	40.25	5 to 50.2	5
	1) Pu	rging D	ata/Fie	ld Me	asureme	ents: A	ll Meası	ırem	ents Relative to Top	of Casing			1.68'Stor
	Well De	epth		_50.25	· · · · · · · · · · · · · · · · · · ·			_	Casing Volume in Gallo	ns	2.	86	0
	Depth o	of Sedime	ent (DTS) in Feet	51.55			_	[2" diameter = x 0.163	gal/ft]			
	Depth o	of Water (DTW) in	Feet	33.99			_	Purge Volume in Gallons 1.59 Actual Purge in Gallons 4.0				
	(DTS -	DTW)			.56			-					
	Time	No. of Gallons Purged	pН	Temp in °C	Conduct in mS/cm	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recov	erv Color, C)dor She	en Accu	mulated Silt/Sand
glast	1519	Oal	6.59	14.7	691	2.79	56,33			110	,NS		
7	1523	1.0	10.09	15.0	759	2.01	11,19	126-	O clear, NO,	NS			
('	1532	200	9.92	15.4	706	2.12	4,77	105	B chear NO,	NS			
	1539	3.0	9.36	15.4	674	2.14	4,01	102.	D clear, NS,	64			
رب ا													
SMPL	1545	4.0	9.09	15.5	672	2.14	3:69	97.5	clear, NO,	NS			· · · · · · · · · · · · · · · · · · ·
$\overline{\ }$	Comm	ents _ '	Slow	ed p	MP	rate	-		, , ,				
				(

	Method	Purging Rate in GPM	Equipme	oth of ent in Feet	
Purge	55 500 pmp		44	'STOM	At no. of Casing Volumes
Sample	Ц	1.0	l	(Purge Water Disposal Method/Volume Drum left on site
2) Sai	mpling Data				
Bottle Type	No of Containers	Analyses	Perserv.	Filter	Total Number of Bottles 8
VOA	4	NWTPH-Gx, BTEX/HVOCs	нсі	no	6
0.5 L		NWTPH-Dx,			1
Amber	2	PAHs	no	no	Duplicate Sample I.D.
0.5 L poly	1	Total MTCA Metals	HNO3	no.	
0.5 L Poly	1	Dissolved MTCA Metals	HNO3	yes	Field Blank I.D.
					Rinseate Sample I.D.
3) Fie	ld Equipment				Type/Brand/Serial No./Material/Units
Pump	Type/Tubing Ty	pe <u>55500</u>	pm	PIPE	Temp/pH/E.C./D.O YST DSS
Bailer	Туре		at		Water Level Probe water line
Filter 1	уре	0.45.	um		Other

Filter Type

4) Well Conditions

OK	$\Box X$	Not OK

Explain

	Gro	undwa	ater S	amp	ling Da	ata - V	Vell I.I	D.	HMW-6IB				
	Project			Broad I	Block				Date/Time Sampled March 13 2020 1635				
	Job No							-	Tidally Influenced Yes No x				
	Project	Manager		M. Dag	el				Well Depth in Feet 63				
	Field R	eps.		B. Dozi	er/B. Lytle	J. Higgin	s/A. Naka	ahara	Screened Interval in Feet 53 to 63				
	1) Pu	rgi <mark>ng</mark> D	ata/Fie	ld Mea	asureme	ents: Al	ll Measu	ireme	ents Relative to Top of Casing (TOC) = 2.98^{1} AGS				
	Well D	epth		63		,			Casing Volume in Gallons 4.80				
	Depth o	of Sedime	ent (DTS)) in Feet	34	64.58		•	[2" diameter = x 0.163 gal/ft]				
	Depth o	of Water ((DTW) in		35.1	5			Purge Volume in Gallons 14.40				
	(DTS -	DTW)		20	9.43'				Actual Purge in Gallons				
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct in mS/cm	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand				
STIMT	1518	0	7.77	10.9	0.625	1.89		208,4	IN ITALLY CLEAN, NO, MS, BETS GRAY TURBID				
	1529	1.0	8.61	14.7	0,622	0.54	211.43	156.8	GAMY TUAGID ITY, NO, NS				
	1544	2.0	817	14.5	0.629	0.25	20.06	133.0	CLEAR, NO. NS				
	1554	3.0	8.63	15.9	0.628	0.12	11.13	117.3	u u				
ţ.	1559	4.0	8.71	15.6	0.624	0.09	9.38	106.7					
SMPL	1605	5.0	8.68	15.6	0.629	0.06	5.65	92.7					
	Comm	ents	•				<i>I</i>		BACK				
	oomin												
									%				
_		Met	hod		ig Rate in SPM		th of nt in Feet		Bails dry? Yes No X				
	⁻ urge	55 SUB	pump	0.	18	58'66	5 (61'BTOL)		At no. of Casing Volumes				
s	ample	55 501	pump	0.	18	58 l	61'BTOL)		Purge Water Disposal Method/Volume Drum left on site				

2) Sampling Data

Bottle Type	No of Containers	Analyses	Perserv.	Filter
VOA	4	NWTPH-Gx, BTEX/HVOCs	нсі	no
0.5 L	· · ·	NWTPH-Dx,	1101	
Amber	2	PAHs	no	no
		Total MTCA		
0.5 L poly	1	Metals	HNO3	no
0.5 L Poly	1	Dissolved MTCA Metals	HNO3	yes
	,			

3) Field Equipment

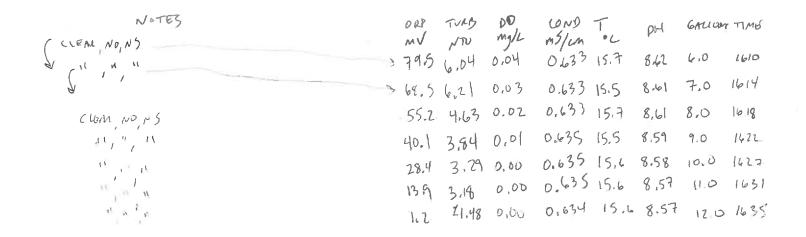
Pump Type/Tubing Type Bailer Type	SS SUGMARSIDLE PE	Temp/pH/ Water Lev
Filter Type	0.45 Mm	Other
4) Well Conditions	OK 💢 Not OK	Explain

Purge Water Disposal Method/Volume	Drum left on site
Total Number of Bottles	
Duplicate Sample I.D.	
Field Blank I.D.	
Rinseate Sample I.D.	a and the second s
Type/Prand/Savial No. /Matavial/	Inite

Type/Brand/Serial No./Material/Units

Temp/pH/E.C./D.O	451 055
Water Level Probe	WATERLINE
Other	<u> </u>

4) Well 2.96+10- 0:34=2.98



Gro	Groundwater Sampling Data - Well I.D.						- HMW-7IB					
Project			Broad E	Block			Date/Time Sampled March 12 2020 1638					
Job No		-	19409-0				Tidally Influenced Yes No x					
	Manager	•	M. Dag	· · · ·			Well Depth in Feet 62.45					
Field R				er/B. Lytle/	J. Higgin	s/A. Naka						
							urements Relative to Top of Casing (TOC)					
						, , , , , , , , , , , , , , , , , , , ,	11 6 9					
Well D	•		62.45	63.9	21							
-	of Sedime			35.1			_ [2" diameter = x 0.163 gal/ft] Purge Volume in Gallons					
Deptn (DTS -	of Water (UTVV) IN	reet	28.13	04		Purge Volume in Gallons 15.46 Actual Purge in Gallons 14.0					
(013-				20-12								
	No. of Gallons		Temp	Conduct	Diss Oxygen	Turbidity						
Time	Purged	pH	in °C	in mS/cm	in mg/L		in mV Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sa					
T 1530	0.2	8.19	14.7	0.657	2.10	370.86	-76.8 INITIMUY SLIGHT GRAY TURO 101 My .NS					
1537	1.0	7.73	16.2	0.644	0.47	126.83						
1 5 44 ⁶¹	2.0	7,71	16.2	0.623	0,25	34,80	-149.1 CLOAR, NS, SLIGHT OPOR					
1550	3.0	7.70	16.1	0.678	0.18	15,75	-161.6 " NS, NO					
JI 1551 ,	4.0	7.70	16-1	0.623	0.13	M.01	-170.7 11 , 11 , 11					
							CONTINUED ON BACK					
		thod		ng Rate In GPM		oth of ent in Feet						
Purge	55 pur	<u>\</u>				1	At no. of Casing Volumes					
Sample	55 N	mp	0.	$\mathcal{V}_{}$	57.15	5	Purge Water Disposal Method/Volume Drum left on site					
2) Sa	mpling	Data										
Bottle Type	No of C	ontainers	An	alyses	Perserv.	Filter	Total Number of Bottles 8					
			NWTP	H-Gx,								
VOA 0.5 L		4	BTEX/I		HCI	no						
Amber		2	PAHs		no	no	Duplicate Sample I.D.					
0.5 L poly		1	Total M Metals		НNO3	no						
0.5 L Poly	,	1	Dissolv Metals	ved MTCA	ниоз	yes	Field Blank I.D.					
							Rinseate Sample I.D.					
2) 5			ـــــــــــــــــــــــــــــــــــــ		1							
3) FI	eld Equ	pinem	L				Type/Brand/Serial No./Material/Units					
	o Type/Ti	ubing Ty	ре	_55 1	PE		Temp/pH/E.C./D.O YSI DSS					
Pum	Bailer Type					Water Level Probe WATER LINE						
	r Type						Water Level Probe WATEL LIPE					
Baile	r Type Type			0.44	5 µm		Other					

1

Explain	STILL UPS ARE GREAT	
	HC Standards/Field Forms/GW-We	al ID

CLEAR, NO, NS									
NOTES		-1702	11.01	0.13	0.623	16.1	7.70	4,0	155)
		ORP	TUAB N TV	po mg/L	COND mS/cm	Т 'С	рH	GALLONS	TIME
CLODE, NO, NS		-175.4	8.82	0.09	0.619	16.1	7.69	5,0	1600
		-177.6	7,79	0.07	0.617	16.)	7.69	6.0	1605
N . A . N		-180.9	10.38	0.05	0.615	16.0	7.69	7,0	1610
it, is fit		-183.3	7.82	0,03	0.611	16.0	7.68	8.0	1615
11, 11 / 1× .	FLOW RATE IN CREASED IN ITS OWN	-184.5	6.60	0.02	0.609	16.0	7.68	9.0	1620
N N / N		- 185.9	4.81	0.02	0,608	15,9	7.68	1010	1623
u u u		- 186.9	4.31	0.0)	0.607	15.9	7.67	11.0	1627
ι (μ (μ		- 187.2 - 187.3 - 187,4	5.76	0.00 -0,00 0,00	0,605	15,9	7.67		1630 1634 1638

SMPL

	Grou	ndwa	ater S	ampl	ling Da	ita - V	Vell İ.L) .	HMW-8IB				
	Project			Broad E	Block				Date/Time Sampled	March	2020	1642	
	Job No.			19409-0				•	Tidally Influenced	Yes		Nox	
	Project I	lanador		M. Dag				•	Well Depth in Feet	63.15			
	Field Re		-	<u> </u>		J. Hiaain	s/A. Naka	•	Screened Interval in Fee		15 to 63.1	5	
					\sim	-		•	nts Relative to Top				
				63.15					Casing Volume in Gallo		4.16		
	Well De	-	ent (DTS)		62.50	1	-	•	[2" diameter = $x 0.163$				
			(DTW) in		36.95		······	-	Purge Volume in Gallon		12.50		
	(DTS - [Dittyiii		25.55'	· · · ·		-	Actual Purge in Gallons		5-0-1	060	
	(= · · · ·	No. of				Diss		- 					
		Gallons		Temp	Conduct	Oxygen	Turbidity						
	Time	Purged	pH_	in °C	in #S/cm	in mg/L	1	-	Comments: Quality, Recov		heen, Accu	1	
start	1513	40.1	957	6 15.1	697	2.97	160.72	-62.4	Initially sli	ight odd	r, NS	, Clearte	Britz
	1533	1.50	9.51	15.4	636	1.48	303.FC	-301	3 slight (salte	12)0001,	NS, +	urbid(bioun)
	1543	5.0	9.29	15,4	611	1.43	601-20	-361	1.9 toro: 71.06(haved param	tirb.	Topped), si	ight E
	1600	3.D	9.08	15.8	593	1.36	61.15	-370.9	SLIGHT ODOR, NS, SL	•		5.	ight E
L.	1615	4.0	9,00	15.7	585	1.33	39.60	-3835	NS, NO, S LIL HTLY TVR	2310			Nachy
-Talas	1630	5.0	8.85	15,7	578	1.32	28.02	-391.2	SLIGHT WHITE SHEEN, SLI	IGHT ODDL, CLEAN	-		T.
ľ	Comm	onte	60	e	PRAN	175	e .	50	5 Mores	Darreh	ote	25	ş
	Comm	CIILO	-10			- 10		10	VILL.	Tolog			sheen
									· · · · · · · · · · · · · · · · · · ·				
		Me	thod		ng Rate in GPM		oth of ant in Feet		Bails dry?	Yes		No	ושרותי זע גשוע
	Purge	5 PU	mp	6	Del	5-6	.5		At no. of Casing Volum	es		<u> </u>	וע גרטי
Γ			ત		11	i	(]	Rurse Weter Disposel	Mothod//olumo	Drum	left on site	ť
Ŀ	Sample			<u> </u>				1	Purge Water Disposal		Druin		
	2) Sai	mpling	Data										
						Perserv.]	Total Nur	nber of Bottles		8	
B	ottle Type		ontainers	NWTP		Feiserv.	Filter	-	l otar Nur				
	0A 5 L		4	BTEX/		HCI	no	-					
	mber		2	PAHs		no	no		Duplicate	Sample I.D.			
	5 L poly		1	Total Metals		HNO3	no .						
				Dissoi	ved MTCA			1					
0.	5 L Poly		1	Metals	<u> </u>	HNO3	yes _	-	Field Blar	nk I.D.			<u></u>
									Rinseate	Sample I.D.			
	3) Fie	eld Equ	lipmen	t_					Type/Brand/Seria	l No./Materia	l/Units		
	Pump	Type/T	ubing Ty	/pe	SS	PE			Temp/pH/E.C./D.O	YSI DSS			
	Bailer					_		_	Water Level Probe	VMER LIN	Æ		
	Filter				0.45	Tum		_	Other			1.1	
			ditions		OK			-	Explain			- 0	
	-1/ 1/4		annona	•	UN	L_/_				HC Standards	Field Form	s/GW-Well ID	

62P AV	NTU	DO mg/L	COND MS/CM	T °C	PH	VOL GAL	TIME SMA
-392,2	28.24	1-31	577	15.8	8.87	6.0	1642

۲

NO, NS, LLEM

Jo Pre Fie	oject b No. oject N			Broad E	Block				Date/Time Sampled	March 17	2020 1359	
Pro Fie									Date/Time Sampleu			
Fie	oject N			19409-0	04-05				Tidally Influenced	Yes	No x (14	104 HU 90
		Manager		M. Dage	el				Well Depth in Feet	92.63		
1)	eld Re	ps.		B. Dozi	er/B. Lytle/	D Higgin	s/A. Naka	hara	Screened Interval in Fee	t 82.63	to 92.63	
) Purg	ging Da	ata/Fie	ld Mea	sureme	nts: Al	l Measu	reme	nts Relative to Top o	f Casing (TOC)) 0.35+2.82-0.25=	2.92'
W	eli De	pth		92.63		3	* 1		Casing Volume in Gallon	s	8.3	
De	epth of	f Sedime	nt (DTS)	in Feet					[2" diameter = x 0.163	gal/ft]		
De	epth of	f Water (I	DTW) in	Feet	43.	401			Purge Volume in Gallons	2	5.0	
(D	DTS - E	OT₩)			51.21				Actual Purge in Gallons	<u> </u>	7.0	
	Гime	No. of Gallons Purged	рН	Temp in °C	Conduct	Diss Oxygen in mg/L		ORP in mV	Comments: Quality, Recove	ery Color, Odor, Shee	en, Accumulated Silt/San	nd
RT +	131	0.2	9.00	13.9	508	2.43	700.64	27,7	VERY TURBID, GRAY NO	.NS		
	29	1.0	9.00	14.9	508	1.60	323.19	-159	8 MODERATION GAY TURBI		Y UDOR NIC	
	140	2.0	\$.99	15.8	501	1.43	100.73		F. (1	, NO	NS	
11	48	3.0	8.99	15.9	501	1.37	95.62	-508	4 "	, it , it		\neg
1	133	4.0	8.97	14.8	485.7	1.65	1549.9	-231.4	STEADLY GRAY MEBID	NS NO	· · · · · · ·	
	-44	5,0	9.00	14.8	484.3	1.50	376.04	-5439	Cut	GRAY MABID, N	ONG	
	omme	onte (Q/IZD 4	Sindly	NURBASIN	15 ELOW	RADI. 14A	le a m	KEEP CONSISTENT. O			
	omme								SLOWNELTED FLOM PUP			
Ô122	7 Rest	ARTING P	ump. @	1235	PLOW IS	HILHLY	VARIABL	5. 1	LONTING ON BALK			300
μ.		Met	hod	-	g Rate in PM	Equipme	th of nt in Feet		Bails dry?	Yes	No X	
D		SS SUBA	ANGOLE	0.1	4		63 865					
Pur	rge	35 30 -91-			0	90.6	'BTQ		At no. of Casing Volume	S		
Sam	nple	LY.		11			"(Purge Water Disposal M	ethod/Volume	Drum left on site	
2)) San	npling	Data									
Bottle	Туре	No of Co	ntainers	An	alyses	Perserv.	Filter	Ì	Total Numl	ber of Bottles	14	
VOA				NWTP	I-Gx,			1				
0.5 L			0	BTEX/H	10005	HCI	no	240				
Ambe	er		2	NWTP		no	no	1.1		Sample I.D.	HMW-900D	
0.5 L	poly		2	Total M Metals	TCA	HNO3	no		SAMPLE	TIME @ 1400	4	
				Dissolv	ed MTCA				4			
0.5 L	Poly		2	Metals		HNO3	yes		Field Blank	(I.D.		
									Rinseate S	ample I.D.		
3) Fiel	ld Equi	pment				10		Type/Brand/Serial	No./Material/U	Inits	
P	ump -	Type/Tu	bing Tv	pe	SS SUB	/ PE			Temp/pH/E.C./D.O	45I DSS		
1.			0.1					-	Water Level Probe	WATERLINE		
	Bailer 7									AND LEVE TIME.		

4) Well Conditions

X Not OK	
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OK

Explain

HC Standards/Field Forms/GW-Well ID

COMMENTS: FLOW STILL VALIABLE @ 1252. @ 1300 FLOW VARIAGLE, KEEP IN (REASING VOLINTOE. @ 1305 FLOW VARIAGLE, KEEP IN LUCHSWI VOLINTOE. @ 1316 MOUGO DSS PROBE & TURBIDITY SHOT UP TO 125 MM. @ 1322. 451 DSS TIPDED, REPOSITIONED IT & TURBIDITY IN LAGNISED TO N 50 NTV. @1331 TURBIDITY HIGHLY VARIABLE (50-250) FLOW STILL VARIABLE. @ 1341 FLOW DEREASING ON ITS OWN. @1350 WANT TO MALLE SURE TURBIDITY STAYS & 25 MM. SINCE ITS SPIKED SEVERAL TMES, 1430 OVERAL DIPFICULT TO KEEP FLOW AT VERY LOW RATES.

NOTES	ORP	NN	ngIL	COND MS/cm	pH	T °C	6AL	TIME
MOREATELY GRAY TULEID, NS, NO	-524.5	376.04	1.50	484.3	9.00	14.8	5,0	1244
11 , 15 , 15	-527.6	110.31	1.42	480.3	9.01	14.9	6.0	1253
NO, MOD: GRAYTMASIO, SLIGHT WHITE BLOCKY	SHEW- 526.4	65.27	1.41	475.6	8.98	15.0	7.0	1302
NO, DEPORTING WHITE SHEEN, MUDERATELY TURBIND	- 539,5			473.	8,98	15, (8,0	1309
NO, NS, MOD. TURSID, GDAY	- 558.0	57.91	1.35	477.0	8.99	15.3	91.0	1314
CLEAR, NO, NS	-563.7	36.20	1.35	473.9	8.92	15.Z	10.0	1319
SUIGHTLY TOR BID, ND,NS	-552.1	84.81	1.35	470.1	8.87	15.2	11,0	1324
MODBATTE BRAY NRBID, NO, NS	- 550.4	251.8	4 1.34	470,9	8.86	15,1	12.0	1329
CLEAR, NO, NS	-555,8	24.09	1.35	471,4	8.87	15+	13,0	1335
	- 551.4	30.02			8.86	15.1	14.0	1341
	-555.7	22.43	1.34	471.6	8.86	15.1	15,0	1347
	- 559,4	24.40	1.3	3 473,0	8,84		16,0	1354
SMPL ", ", "	- 527,6	17,0	3 1.33		8.85	15,0	17.0	1359 SMPL

Grou	Indwater S	ampling Da	ata - Well I.	D. HMW-9IA
Project		Broad Block		Date/Time Sampled March 9 2020/1651
Job No.		19409-04-05	\bigcirc	Tidally Influenced Yes No x
Project I	Manager	M. Dagel		Well Depth in Feet 49.63
Field Re	eps.	B. Dozier/B. Lytle	J. Higgin¢/A. Nak	ahara Screened Interval in Feet 39.63 to 49.63
1) Pur	ging Data/Fie	ld Measureme	nts: All Measu	urements Relative to Top of Casing (TOC) 33+ 2
Well De	pth	49.63		Casing Volume in Gallons 2.78
Depth o	f Sediment (DTS)		8	[2" diameter = x 0.163 gal/ft]
	f Water (DTW) in			_ Purge Volume in Gallons ⊮ <u>3</u> <u>8, 3</u> <u>9</u>
(DTS - [OTW)	t.U	10	Actual Purge in Gallons
	No. of Gallons	Temp Conduct	Diss Oxygen Turbidity	ORP
Time	Purged pH	in °C in mS/cm	in mg/L in NTU	in mV Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand
6B0	1 9.78	16.1 584	2.15 68.25	25.0 NO, NS, Cloudy
636	2 7.41	6.0582	0.65 17.4	8.9 NO, NS, CLEAR
641	3 7.23	16.0 582	0.36 10,21	-las NO, NS, Clear
1040	4 7.16	15.9 582	0.24 6.72	Ha? NO, NS, Clear
1051	5 7.12	15.9581	0,174,01	-216 NO,NS, Clear
0 1001	J " Z	1201	0/114/0	all his, clair
Comm	ents		<u>.</u> .	
	a 7			
		Purging Rate in	Depth of	
	Method monsoon 55	GPM	Equipment in Feet	Bails dry? Yes No 1
Purge	SUDPUMP	0.2	14TU	At no. of Casing Volumes
Sample	V		V.	Purge Water Disposal Method/Volume Drum left on site
2) Sar	mpling Data	±	-	
Bottle Type	No of Containers	Analyses NWTPH-Gx,	Perserv. Filter	Total Number of Bottles7
/OA	4	BTEX/HVOCs	HCI no	
.5 L mber	1	NWTPH-Dx	no no	Duplicate Sample I.D.
).5 L poly	1	Total MTCA Metals	HNO3 no	
		Dissolved MTCA		
).5 L Poly	1	Metals	HNO3 yes	Field Blank I.D.
				Rinseate Sample I.D.
3) Fie	ld Equipment	ť		Type/Brand/Serial No./Material/Units
Pump	Type/Tubing Ty	vpe SSS	Ubipumple	Temp/pH/E.C./D.O YSI DSS
Bailer			A frankly	Water Level Probe Water Level Probe
Juno		DI	<u>.</u>	Other
Filter 7	Гуре	0.4	nom	Other
Filter 7	Гуре ell Conditions			

4)	Well	Conditions
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plain	

			ata - V		HMW-9IB	·	
Project		Broad Block			Date/Time Sampled	March 19	2020 1322
Job No.					Tidally Influenced	Yes	No x
Project I	Manager	M. Dagel			Well Depth in Feet	69.45	
Field Re	eps.	B. Dozier/B. Lytle	J. Higgin	s/A. Nakah	ara Screened Interval in Fe	et 59.45	to 69.45
1) Pur	ging Data/Fie	eld Measureme	ents: Al	l Measur	ements Relative to Top	of Casing (TOC	0.32+2.9380 +2.4580
Well De	pth	69.45			Casing Volume in Gallo	ons 5.6	60
	f Sediment (DTS) in Feet 70.	89		[2" diameter = x 0.16	3 gal/ft]	2
Depth of	f Water (DTW) ir	Feet 36.54	{		Purge Volume in Gallor	ns <u>16.</u>	80
(DTS - D	OTW)	34.35			Actual Purge in Gallons	₹ <u></u>	.5
Time	No. of Gallons Purged pH	Temp Conduct in °C in mS/cm	Diss Oxygen in mg/L	Turbidity C	DRP n mV Comments: Quality, Reco	verv Color. Odor. She	en, Accumulated Silt/Sand
1034	1.5 799	15.0 (012	1107	1565-	42.2 Clear, NO, 1	VS	
AUI	2.5 815	15.3 619	0.42	4142-	ISIB CLEAR, NON	IS	<u></u>
	25 021	2110	0.12	0155		JOINS	<u>_</u>
410	$\begin{array}{c c} 0, 0 & 0, 0 \\ 1 & 0, 0 \\ 1 & 0, 0 \\ 1 & 0 \\ 1$	10 0 10	10.00			50/105	
LDL	1.5 B.LI	15.3 648	0.17		173.0 clear, N	O,NS	
1202	5.5 8.19	5.4 669	0.13	9.57	He clear,	NO,NS	
3212	6.5 8.15	15.2 691	008	4.25	-1817 clear, No	ZNC	
132Z	7.5 8.14	15.5 700	0.05	12.15	1812 Clear, NO	ZNIC	· · · · · · · · · · · · · · · · · · ·
,y, Comm							
-					<u></u>		
	Method	Purging Rate in GPM	Equipme	oth of ent in Feet	Bails dry?	Yes	No
Purge	Method Monsoon 35 SUB PUMP		Equipme	nt in Feet	66.9		No
Purge Sample	Monsoon 55	GPM	Equipme	ent in Feet	Bails dry? 6.9 At no. of Casing Volum Purge Water Disposal	nes	No X
Sample	Monsoon 55	GPM	Equipme	ent in Feet	ل At no. of Casing Volum	nes	No Drum left on site
Sample 2) Sar	Monsoon 65 SUB pump	GPM 0.1 V Analyses	Equipme	ent in Feet	ନ୍ତି ମ At no. of Casing Volum Purge Water Disposal	nes	No No
Sample 2) Sar	Mon soon 35 SUB PUMP	GPM 0.1 Analyses NWTPH-Gx,		mt in Feet	ନ୍ତି ମ At no. of Casing Volum Purge Water Disposal	nes Method/Volume	
Sample 2) Sar Bottle Type /OA 0.5 L	Mon soon 35 SUB PUMP	GPM 0.1 Analyses NWTPH-Gx, 4 BTEX/HVOCs	Equipme	Filter	ନ୍ତି ମ At no. of Casing Volum Purge Water Disposal Total Nur	nes Method/Volume mber of Bottles	
Sample 2) Sar Bottle Type /OA 0.5 L	Mon soon 35 SUB PUMP	GPM 0.1 Analyses NWTPH-Gx, 4 BTEX/HVOCs 1 NWTPH-Dx	Equipme	Filter	ନ୍ତି ମ At no. of Casing Volum Purge Water Disposal Total Nur	nes Method/Volume	
Sample 2) San Bottle Type VOA 0.5 L Amber	Mon soon 35 SUB pump	GPM 0.1 Analyses NWTPH-Gx, 4 BTEX/HVOCs 1 NWTPH-Dx Total MTCA 1 Metals	Equipme (6) Perserv. HCI no HNO3	Filter	ନ୍ତି ମ At no. of Casing Volum Purge Water Disposal Total Nur	nes Method/Volume mber of Bottles	
Sample 2) San Bottle Type VOA 0.5 L Amber 0.5 L poly	Mon soon 35 SUB PUMP	GPM 0.1 Analyses NWTPH-Gx, 4 BTEX/HVOCs 1 NWTPH-Dx Total MTCA	Equipme (6) Perserv. HCI no HNO3	Filter no	ନ୍ତି ମ At no. of Casing Volum Purge Water Disposal Total Nur	nes Method/Volume mber of Bottles Sample I.D.	
Sample	Mon soon 35 SUB PUMP	GPM O.1 Analyses NWTPH-Gx, 4 BTEX/HVOCs 1 NWTPH-Dx Total MTCA 1 Metals Dissolved MTCA	Equipme (66) Perserv. HCI no HNO3	Filter no no	لائے ؟ At no. of Casing Volum Purge Water Disposal Total Nur Duplicate Field Bla	nes Method/Volume mber of Bottles Sample I.D.	
Sample 2) San Bottle Type VOA 0.5 L Amber 0.5 L poly 0.5 L Poly	Mon soon 35 SUB PUMP	GPM O.1 Analyses NWTPH-Gx, 4 BTEX/HVOCs 1 NWTPH-Dx Total MTCA 1 Metals Dissolved MTCA 1 Metals	Equipme (66) Perserv. HCI no HNO3	Filter no no	لائے ؟ At no. of Casing Volum Purge Water Disposal Total Nur Duplicate Field Bla	nes Method/Volume mber of Bottles e Sample I.D. nk I.D. Sample I.D.	7
Sample 2) Sart Bottle Type VOA 0.5 L Amber 0.5 L poly 0.5 L Poly 0.5 L Poly 0.5 L Poly	Mon soon 65 SUB PUMP	Analyses NWTPH-Gx, 4 BTEX/HVOCs 1 NWTPH-Dx Total MTCA 1 Metals Dissolved MTCA 1 Metals	Equipme (6() Perserv. HCI no HNO3 HNO3	Filter no no	دوج ۹ At no. of Casing Volum Purge Water Disposal Total Nur Duplicate Field Bla Rinseate	nes Method/Volume mber of Bottles e Sample I.D. nk I.D. Sample I.D.	7
Sample 2) Sart Bottle Type VOA 0.5 L Amber 0.5 L poly 0.5 L Poly 0.5 L Poly 0.5 L Poly	Mon 5000 65 50 pump 1 mpling Data No of Containers 1 d Equipment Type/Tubing T	Analyses NWTPH-Gx, 4 BTEX/HVOCs 1 NWTPH-Dx Total MTCA 1 Metals Dissolved MTCA 1 Metals 1 Metals	Equipme (6() Perserv. HCI no HNO3 HNO3	Filter no no	دوج ۹ At no. of Casing Volum Purge Water Disposal Total Nur Duplicate Field Bla Rinseate Type/Brand/Seria	nes Method/Volume mber of Bottles e Sample I.D. nk I.D. Sample I.D.	7

Not OK Explain

ок [

4) Well Conditions

	Groundwater Sampling Data - Well I.D.						Vell I.I	D.	HMW-9S		
	Project Broad Block							-	Date/Time Sampled March (7 2020 0959		
	Job No.19409-04-05Project ManagerM. Dagel						_	Tidally Influenced Yes No x			
							_	Well Depth in Feet38.12			
	Field Reps. B. Do			B. Dozi	B. Dozier/B. LytleyJ. Higgins/A. Nakaha				Screened Interval in Feet 28.12 to 38.12		
	1) Pui	rging D	ata/Fie	ld Me	asureme	ents: Al	ll Measu	ireme	ents Relative to Top of Casing (TOC) 3,07+035 -0.28=3.1		
	Well De	epth		38.12				-	Casing Volume in Gallons		
	Depth c	of Sedime	ent (DTS)	in Feet				_	[2" diameter = x 0.163 gal/ft]		
	Depth c	of Water ((DTW) in	Feet	33.1	51		_	Purge Volume in Gallons 2.58		
	(DTS - I	DTW)			5.27'			-	Actual Purge in Gallons 2.5		
	Time	No. of Gallons Purged	рН	Temp in ⁰C	MS/M Conduct i n-mS/cm	Diss Oxygen in mg/L		ORP in mV	Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand		
TART	0931	0.1	7.12	14,9	477.8	3,35	31.92	197.7	INITIANY CLEAR NO NS		
	0940	1.0	7.27	<i>[5.2</i>	525	2.57	37.41	168.8	SUPPET GRAM TURBIDITY NO, NS		
1	0945	1.5	7,25	15.3	548	2.35	11.90	16.7			
	0951	2.0	7.26	15.0	549	2.35	9.10	160.8	CLEAR, NS, SLIGHT SWEET/SOLVENT-LIKE DOOR		
ي									IL, NO, NS BL		
SMPL	0959	2.5	7.24	15.(557	2,29	6.41	160.6	CLEAR, NO, NS		

Comments PUMP SET 1' BELOW WATTH. @ 0941 DELACASED FLOW RATE TO REDUCE TURB. @ 0954 FLOW RATE DELACASED on 175 OW.

	Method	Purging Rate in GPM		Equipment Feet	Bails dry? Yes No X
Purge	ss submensiols	0.07	34.3	8+5 34	At no. of Casing Volumes
Sample	et	0.07	8-11	34.15	Purge Water Disposal Method/Volume Drum left on site
2) Sar	npling Data				
Bottle Type	No of Containers	Analyses	Perserv.	Filter	Total Number of Bottles 7
VOA	4	NWTPH-Gx, BTEX/HVOCs	HCI	no	
0.5 L Amber	1	NWTPH-Dx	no	no	Duplicate Sample I.D.
0.5 L poly	1	Total MTCA Metals	HNO3	no	
0.5 L Poly	1	Dissolved MTCA Metals	НNO3	yes	Field Blank I.D.
					Rinseate Sample I.D.
3) Fie	ld Equipment				Type/Brand/Serial No./Material/Units
Pump	Type/Tubing Ty	ре 555ивм	BLSIGLE	/PE	Temp/pH/E.C./D.O 155 ∅5 \
Bailer Type					Water Level Probe WATELINE
Filter Type 0.45 km					Other

4) Well Conditions

OK X Not OK Explain

HC Standards/Field Forms/GW-Well ID

Groundwater Sampling Data - Well I.D.

HMW-10D

	Project			Broad E	Block				Date/Time Sampled March 16 2020 1627
	Job No.			19409-	04-05		. =		Tidally influenced Yes No x
	Project	Ma <mark>nage</mark> r		M. Dag	el				Well Depth in Feet91.95
	Field Re	eps.		B. Dozi	er/B. Lytig	J. Higgin	s/A. Naka	hara	Screened Interval in Feet 81.95 to 91.95
	1) Pur	rging Da	ata/Fie	ld Mea	asureme	ents: Al	l Measu	ireme	ents Relative to Top of Casing (TOC) $\pi c = 0.25' + 2.80' - 0.14' = (2.91')$
	Well De	pth		91.95					Casing Volume in Gallons 8.74
	Depth c	of Sedime	nt (DTS)	in Feet	93.4	4'			[2" diameter = x 0.163 gal/ft]
		of Water (39.87	2 '		•	Purge Volume in Gallons 26.2
	(DTS -		,		53.62'				Actual Purge in Gallons
	Time	No. of Gallons Purged	pН	Temp in °C	M/m Conduct in mS/c m	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand
STACT	1518	0.1	7.70	14,4	400.1	2.73	739,13	- 119,3	IN ITIALLY VERY GRAY TURBID, NO, NS
	1526	1.0	7.92	ાય. પ	396.8	1.61			MODELATTE GOAY - BROWN TURBIDITY NO, NS
	1532	2.0	7.94	14.5	393,8	1.49	88.71	-504.3	
	1538	3.0	7.96	14.5	397.3	1.46	100.70	-503.8	SHOHT TURBID, NO, NS
Ļ	1543	4.0	7.95	14.5	400.9	1.45	121.50	- 497,	N N N
SMPL	1548	5,0	7.94	14.4	400.5	1.45	277.63	-493.0	MODENTIE LAND TARBID, NO, NS.
1	Comm	د ents	UST ENOU	GH TUBI	ve to wor	×. @	1542 P	MISED	PUMP 1'. @ 1550 DELAEASED FLOW RATE.

Bails dry?

At no. of Casing Volumes

Purge Water Disposal Method/Volume

Total Number of Bottles

Duplicate Sample I.D.

Rinseate Sample I.D.

Type/Brand/Serial No./Material/Units

Field Blank I.D.

Yes

Drum left on site

7

	Method	Purging Rate in GPM	Depth of Equipment in Feet
Purge	SS SUGMERISIBLE	0.08	86.95' 865 (89.86' Broc)
Sample	14	0.08	11

2) Sampling Data

Bottle Type		Analyses	Perserv.	Filter
		NWTPH-Gx,		
VOA	4	BTEX/HVOCs	HCI	no .
0.5 L				
Amber	1	NWTPH-Dx	no	no
		Total MTCA		
0.5 L poly	1	Metals	HNO3	no
		Dissolved MTCA		
0.5 L Poly	1	Metals	HNO3	yes
	-			

3) Field Equipment

				10
Pump Type/Tubing Type	55 50B / PE.	Temp/pH/E.C./D.O	451 055	
Bailer Type		Water Level Probe	WATERLINE	
Filter Type	0.45 pm	_ Other		
4) Well Conditions	OK X Not OK	Explain		
			HC Standards/Field Forms/GW-Well ID	

NOTES	of P MV	NRS	nglL	COND MS/cm	T°C	pН	6AL	The
MED. GEAT TURBID, NO, NS	-493.0	277,63	1.45	400.5	14.4	7.94	5.0	1548
SUGFITY TURBIO, NO, NS	-468.3	156,04	1.46	402.9	14.3	7.93	6.0	1602
CLEAR, NO, NS. HAD + ASK BELLA RE: CASING VOLUME &	-477.1	13.32	1.43	407.9	14,4	7,92	7.0	1616
(i i i i j j j j j j	- 480.	2/18,50	1.42	. 409.1	14,5	7.93	8.0	1627

.

Groundwater Sampling Data - Well I.D.

HMW-10S

	Project			Broad E	Block				Date/Time Sampled	March	Ve	2020	142	00 T
	Job No.		-	19409-0	04-05				Tidally Influenced	٢	′es		Nox	
	Project	Manager	-	M. Dage	el				Well Depth in Feet	37	.56			
	Field Re	eps.		B. Dozi	er/B. Lytle/	J. Higgin	s/A. Naka	hara	Screened Interval in Fe	et	27.56	6 to 37.56		
	1) Pur	rging D	ata/Fie	ld Mea	asureme	nts: Al	l Measu	reme	nts Relative to Top	of Casin 84 + 0.24	g (TOC	2.9	65	
	Well De	pth		37.56					Casing Volume in Gallo			2.0		
	Depth c	of Sedime	ent (DTS)	in Feet	38.62	1			[2" diameter = x 0.163	3 gal/ft]				
	Depth c	of Water (DTW) in	Feet	26.31	1			Purge Volume in Gallor	IS		6.0		
	(DTS -	DTW)			38.62	12.	31'		Actual Purge in Gallons	;		3.5		
	Time	No. of Gallons Purged	pН	Temp in °C	MS/CM Conduct in mS/cm	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recov	very Color,	Odor, She	en, Accum	ulated Si	lt/Sand
SMAL	1349	0.1	7.58	14.8	507	2.29	88.41	49,0	IN ITMLY CLOAR, NO, A	15				
	1355	1.0	7.54	14.5	508	1.65	62,13	-1424	GRAY TURBIOITY,	NS, NO	, where	D FLOW	AME DO	N.
	1412	2.0	7,40	14.8	513	1.62	10.07	-317.	L CLEAR, NO, NS				-	
	1415	2.5	7.36	14.7	510	1.59	5.77	-374	S " , " , " . Oez.	reased pu	DATE DN SLIL	FIFLY.		
	1417	3.0	7.36	14.6	509	1.62	5.33	-319,0	11 , 15 M					
SMPL	1420	3.5	7.33	14.6	50%	1.62	4.21	-312,	M H IV					
	Comm	ents	TOL	15 ~2		e Georma	SUFALE	. @	412 HADP INCREASE PA	MP RATE T	o këtëp p	tow.		
		Met	thod		ig Rate in		oth of		Bails dry?		Yes		NOX]

	Method	GPM	Equipment in Feet
Purge	55 SUBMONSIBLE	0-1	32.56' B65 (35.46 BTOL)
Sample	55 SUB MENSION	~0.1	A second

2) Sampling Data

Bottle Type	No of Containers	Analyses	Perserv.	Filter
VOA	4	NWTPH-Gx, BTEX/HVOCs	нсі	no
0.5 L Amber	1	NWTPH-Dx	no	no
0.5 L poly	1	Total MTCA Metals	HNO3	no
0.5 L Poly	1	Dissolved MTCA Metals	HNO3	yes

3) Field Equipment

Pump Type/Tubing Type Bailer Type Filter Type	0.45 p.m	Temp/pH/E.C./D.O Water Level Probe Other	YSI DSS WATERLINE
4) Well Conditions	OK Not OK	Explain	HC Standards/Field Forms/GW-Well ID

Bails dry?	Yes	
At no. of Casing Volumes		
Purge Water Disposal Me	thod/Volume	Drum left on site
Total Numb	er of Bottles	7
Duplicate S	ample I.D.	
Field Blank	I.D.	
Rinseate Sa	ample I.D.	
Type/Brand/Serial I	No./Material/U	Inits
Temp/pH/E.C./D.O	45I DSS	

Grou	indwater	Sampling Da	ata - V	vell I.L	D. HMW-11IB
Project		Broad Block			Date/Time Sampled March 16 2020 / 11/2
Job No.		19409-04-05			Tidally Influenced Yes No X
	Manager	M. Dagel			Well Depth in Feet 57.47
Field Re	-			s/A. Naka	ahara Screened Interval in Feet 47.47 to 57.47
					urements Relative to Top of Casing (TOC), 2.00 com
-				modod	
Well De		57.47	a		Casing Volume in Gallons <u>7.27</u>
(* <u>)</u>	of Sediment (D⊤		<u> </u>		_ [2" diameter = x 0.163 gal/ft]
Depth o	f Water (DTW)	in Feet 53	5+		Purge Volume in Gallons
(DTS - [DTW)	_ <u>a</u> G.01'			Actual Purge in Gallons
	No. of Gallons	Temp Conduct	Diss Oxygen	Turbidity	ORP
Time	Purged pH	in °C in mS/cm	in mg/L		in mV Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sar
1040	1.0 G.TC	2 14.6 470.3	1.11	26,20	DIG VINC AND IN
			1011 N 02		
1046	2.0 6.6		0.92		126.ª NO, NS, CLEART
11054	3.0 6.56	, 14.3 465.3	0.569	5.93	111.3 NO, NS, Clear
1103	4.0 6.5	1 14.5 463.6	0.90	3.70	96.1 NO, NS, clear
	1.0		,-	///-	
		14.6		<u> </u>	
MS 1112	5.0 6.5	3 +6-6, 463,7	0.89	3,85	822 NO, NS, Cleer
Comm	ents Gai	ed pump.	rate	- a lit	the bit.
r					-111
	Method	Purging Rate in GPM		oth of ent in Feet	Bails dry? Yes No
	Monsoon s	5 0.1	49.5	i' bela	207 de
Purge	sup pump				At no. of Casing Volumes
Sample	71	0.1	(C	Purge Water Disposal Method/Volume Drum left on site
2) Sar	mpling Data				
,					7
Bottle Type	No of Container		Perserv.	Filter	Total Number of Bottles14
VOA	ļ	NWTPH-Gx, 8 BTEX/HVOCs	нсі	no	
0.5 L					4
Amber		2 NWTPH-Dx	no	no	Duplicate Sample I.D. HMW-1100IB
		Total MTCA			
0.5 L poly		2 Metals Dissolved MTCA	HNO3	no	4
0.5 L Poly		2 Metals	HNO3	yes	Field Blank I.D.
	<u> </u>			1 ^{,00}	

Type/Brand/Serial No./Material/Units

Rinseate Sample I.D.

3) Field Equipment Pump Type/Tubing Type Temp/pH/E.C./D.O <u>558</u> Water Level Probe Lipp Bailer Type ine 45 Filter Type 0 ur Other 4) Well Conditions Not OK OK Explain HC Standards/Field Forms/GW-Well ID

F	Project			Broad E	Block			1 7	Date/Time Sampled March 2020 / 1420
J	lob No.	•		19409-	04-05	-		_	Tidally Influenced Yes No x
F	Project	Manager		M. Dag	el	-			Well Depth in Feet 38.2
F	ield Re	eps.		B. Dozi	er/B. Lytle	/J. Higgir	ns/A. Nak	ahara	Screened Interval in Feet 28.2 to 38.2
1	1) Pur	rging D	ata/Fie	eld Mea	asureme	ents: A	ll Measu	ureme	ents Relative to Top of Casing (TOC)
	Vell De	2		38.2			14	- 	Casing Volume in Gallons 1.52950.530
C	Depth o	of Sedime	ent (DTS) in Feet	38.40			-	[2" diameter = x 0.163 gal/ft]
		of Water	(DTW) in	Feet	35.15	*		<u>_</u>	Purge Volume in Gallons
(DTS - I	DTW)			3.25				Actual Purge in Gallons
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct in mS/cm	Diss Oxygen in mg/L	Turbidity in NTU		Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand
1	140	0.5	749	14.1	1494	2.43	304.8	13	initially turbid, aren sitt
F	HSS		7.5	12.5	1:273	2.09	90.75	874	
,	1213	1.5	7.05	12.1	1194	1.99	26.01	103-	> shaped frow. Turned off owner to recharge *
30	E.		110	1011				10	> original robes larger of handlergerending
							10 (N		
	11.1	1 1.	0 00		Contraction of the Contraction of the				
-	Comm	ents	7.08 * chec UPII	13.9 Led fil Contic	iow on +	00	2	10-014	> couldn't get flow through files. submit untilled pdy , no flow still. Unfiltered poly looked V clear are pump convectivity issues to and of sampling Q1
(Comm	ents	* chec URII	Contic Contic Purgin	g Rate in	either Der	nin day	10-014	are pump connectivity issues to and of sampling QI
(IY20 Comme		thod	Contic Contic Purgin		either Der	ninday	10-014	, no plan still. Unfiltered poly looked v clear
()		ents	t <u>₩</u> chiec <u>₩</u> PII hod	Contic Contic Purgin	g Rate in SPM r flow	either Dep Equipme	Min day oth of ent in Feet	10-014	Bails dry? Yes Yes No
	ırge mple	ents Met SS pun	thod	Purgin Contic Purgin C 344" 0 0.5/10m	g Rate in SPM r flow	either Der Equipme 36	Min day oth of ent in Feet	10-014	Bails dry? Yes No
	ırge mple	ents Met SS pun SS pun	thod Data	Purgin Contro Purgin C '24" o 0.5/10m 1/20	g Rate in SPM 도 위에	either Der Equipme 36	Min day oth of ent in Feet	10-014	Bails dry? Yes No
	urge mple 2) San	ents మెల్లా కెస్ గ్రాగం దాpling	thod Data	Purgin Contro Purgin C 244" o 0.5/10m 1/20 An: NWTPH	g Rate in SPM r flow alyses 1-Gx,	either Der Equipme 36°	nun day oth of ent in Feet	10-014	Image: Still Image: Still Image: Still and I sampling (D) ave pump connectivity issues to and if sampling (D) Bails dry? Yes No At no. of Casing Volumes Image: Connectivity issues Image: Connectivity issues Purge Water Disposal Method/Volume Drum left on site
	urge mple 2) San	ents మెల్లా కెస్ గ్రాగం దాpling	thod Data Data 4	Purgin Contro Purgin C 244 0 0.5/10m	g Rate in SPM F flow Allow alyses H-Gx, IVOCs	Perserv.	Min day oth of ent in Feet	10-014	Image: Still Image: Still <th< td=""></th<>
	urge mple 2) San	ents మెల్లా కెస్ గ్రాగం దాpling	thod ↓JRII thod ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Purgin Purgin 0 144 0 0.5/10m 1/20 An: NWTPH BTEX/H NWTPH Total M Metals	g Rate in SPM F flow alyses I-Gx, IVOCs I-Dx TCA	Perserv.	Filter no no	10-014	Internet flow skill. Vunkillered poly looked V clear. ave pump connechaty issues to and of sampling (2) Bails dry? Yes At no. of Casing Volumes
	urge mple 2) Sari e Type er	ents మెల్లా కెస్ గ్రాగం దాpling	thod ↓JRII thod ↓ Data Data <u>Matainers</u> 4 1 1	Purgin Purgin 0 144 0 0.5/10m 1/20 An: NWTPH BTEX/H NWTPH Total M Metals	g Rate in SPM F flow Allow alyses H-Gx, IVOCs	Perserv.	Filter no	10-014	Internet flow skill. Vinfillered poly looked V (Lec. ave pump connectivity issues to and isampling (2) Bails dry? Yes At no. of Casing Volumes
	urge mple 2) Sari e Type er _ poly	ents మెల్లా కెస్ గ్రాగం దాpling	thod ↓JRII thod ↓ Data Data <u>Matainers</u> 4 1 1	Ana NWTPH Total M Metals Dissolv	g Rate in SPM F flow alyses I-Gx, IVOCs I-Dx TCA	Perserv. HCI NO3	Filter no no	10-014	At no. of Casing Volumes Image: Construction of the second of the se
C (Pu Pu Pu Pu Pu Pu Pu Pu Pu Pu	urge mple 2) San e Type er er poly	ents మెల్లా కెస్ గ్రాగం దాpling	thod thod Data Data Market	Ana NWTPH Total M Metals	g Rate in SPM F flow alyses I-Gx, IVOCs I-Dx TCA	Perserv. HCI NO3	Filter no no	10-014	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles 7 Duplicate Sample I.D.
	urge mple 2) San e Type er poly Poly Poly 3) Fiel	ents	thod ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	An: NWTPH Dissolv Metals	g Rate in SPM F flow alyses I-Gx, IVOCs I-Dx TCA	Perserv. HCI NO3	Filter no no	10-014	How Skill Aur pump Connechulty issues fill and issanding (2) Bails dry? Yes No At no. of Casing Volumes Purge Water Disposal Method/Volume Drum left on site Total Number of Bottles 7 Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D. Type/Brand/Serial No./Material/Units
	urge mple 2) San e Type er poly Poly Poly 3) Fiel	ents هوالع کې موال موال موال موال موال موال موال موال	thod ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	An: NWTPH Dissolv Metals	g Rate in SPM F flow alyses I-Gx, IVOCs I-Dx TCA	Perserv. HCI NO3	Filter no no	10-014	Image: State Multitiest plu looked V deer ave pump convectuity issues to and isomptime Somptime Bails dry? Yes No At no. of Casing Volumes Purge Water Disposal Method/Volume Drum left on site Total Number of Bottles Duplicate Sample I.D.

4) Well Conditions

_			
	OK	X	Not OK

Explain

HC Standards/Field Forms/GVV-VVell ID

HARTCROWSER Groundwater Sampling Data - Well I.D. Hnw-12D

F	PROJECT	M	MB			DATE	TIME SAM	PLED	9/1/2020	1123		
	JOB NO.		10904			TIDA	LLY INFLUE	NCED	YES	NO	X	
1		ANAGER	MO	ABEL		WELL	DEPTH IN	FEET	92			
1	FIELD REPS	S	B Lyne	¢		SCRE		ERVAL IN F	EET 82.	-92		
	Purging I	Data/Field	l Measur	ements:	All Measurem	ents Relativ	e to Top of	Casing (TO	C)			
	WELL DEP	ГН	92		<u>`</u>	CASI	NG VOLU M	E IN GALLO	ons 10.	8		
1	DEPTH TO	SEDIMENT	(DTS) IN FI	EET 9	7.70	[2"	' diam = x .1	63 gal/ft	4" diam = x .6	53 gal/ft]		
	DEPTH TO	WATER (DT	W) IN FEE	1 27	.54	PURC		IN GALLO	NS 32			
	(DTS – DTV	V)	66.	16		ACTL						
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct	Diss. Oxygen	T	ORP			overy, color, o	
92	loid	0.1	8.15	15,9	0.674	in <u>mall</u> 1,97	Turbidity 60.89	170.2	INITIONLY CK		umulated silt/s	ano
	102 1	0.5	6.71	16.0	0-821	0.58	6.17	25.9	SUGAT GRAM T	RBIDITY,	NO, NS	
	1028	1.0	4.51	16.0	0.828	0.57	34.70	-26.6	CLEAL, NO,			
	1044.	2.0	6.43	15.8	0.830	0.35	5.55	-59.4	", ",	1		
imple:	1107	4.0	6.50	16-1	0.843	0.31	3.78	-73.4	",",	u ce	NTINUED O	2
	Comments	s: CITY Re	p chrife to	put New	LOCK ON	AT GALL	N 350	I MISSED	READINES,			

+1.8-88-8

87

SIXX	νP	1.8	f

0.09

0.00	11		DRUM ON SITE, 6.0 GAL	
SACK UP 1.81			· · · · · · · · · · · · · · · · · · ·	
			Total number of Bottles	
Analyses	Preserv.	Filter		_
GRO/VOC'S	HCI			
DRO/ CPAH'S		·	Duplicate Sample I.D.	-
TOTAL METALS.	HND3		Field Blank I.D.	_
DISSOLVED METALS	HNOZ	0.45 ju	Rinseate Sample I.D.	
	7	Type/Brai	nd/Serial No./Material Units	
55 54B / PE		ſemp/pH/E	.C. meter YS1 12 55 PK3	
	v	Nater Leve	Probe WATCH LING	

Purge Water Disposal Method/Volume

Pump Type/Tubing	Type <u>55 548 / PE</u>	Temp/pH/E.C. meter	YSI DSS PRO
Bailer Type		Water Level Probe	WATERLINE
Filter Type	0.45 µm	Other	
4 Well Conditions	OK Not OK Ex	plain	

J:\Docs\Forms\Field & Lab\Groundwater Sampling Data Form.doc

55 SUBMONASBLE

*

Containers

3/3

1/1

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of

Purge

Sample

Sampling Data

Bottle Type

40mL VOA

500ml ANB ERL

250ml POLY

250 nc Pay

Field Equipment

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TIME	GALLONS	H	T°G	COND	00	TULB	OFP	Comments
								CIERR, NO, N S
SAMPLE 1123	5.0	6.62	16.0	0.846	0.29	3.18	-82.0	1^{N} , α , α



	(e.g., 20' N PROJECT		er of building	A)		DATE	TIME SAM	PLED	9/10/2020	1545		
	JOB NO.	۱۹	140904			TIDAL						
	PROJECT N	ANAGER	MO	AGEL		WELL	DEPTH IN	FEET	99			
	FIELD REPS	3 <u>B</u>	Lyrie			SCRE		RVAL IN FI	EET <u>89</u> -9	9		
	Purging l	Data/Field	l Measure	ments: /	All Mea suren	nents R elati v	e to Top of (Casing (TOC)			
	WELL DEPT	н				CASI		E IN GALLC	NS 10.0)		
	DEPTH TO	SEDIMENT	(DTS) IN FEI	ET 0	18.8	[2"	diam = x .1	63 gal/ft	4" diam = x .653 g	al/ft]		
	DEPTH TO	WATER (DT	W) IN FEET	3:	7.12	PURG	SE VOLUME	IN GALLO	NS <u>30</u>	0.0		
	(DTS - DTV	/)	61.71			ACTL	IAL PURGE	IN GALLON	15 <u>7</u> ,1	0		
	Time	No. of Gallons Purged	рН	Temp in °C		Diss. Oxygen in <u>ry/L</u>	Turbidity	ORP in m√		lity, recovery, color, odor, en, accumulated silt/sand		
AL	1335	0.1	8-11	15.6	0.328	0.88	2300	211.1		6fry- GROWN WEBIDIN		
	1358	1.0	7.97	16.1	0.339	1.29	384.21	208.6	SMONG GART-BA	own purbidity		
	1410	2.0	7.34	16.5	0.355	0.42	162.91	190.4	NO, NO, NS	-BROWN TURBIDITY,		
	1424	3.0	元16	16.0	0.379	0.32	107.09	124.0	1, n, N			
npl e:												
		: COURD GOT							MOD 1357 AR B			
		Method		in GPM	-	epth of quip. in Feet	Bo	ils dry?	Yes	No K		
	Durre	55 50	emonsible	0.05	5	94	- Du		casing volumes Disposal Method/Vo	lumo		
	Purge				-			iye water L	. ,			
	Sample		JA	0.0	5	47		ON SITE	DRUM /	~ 8,0 6M		
2			<u>1</u>	0.0	5	11		ON SITE	skum / i			
2	Sample	g Data # of			5	1			umber of Bottles	10		
2	Sample) Sampling Bottle Typ	y Data # of Conta	ainers Anal	yses		Preserv.	Filter	Total n	umber of Bottles			
2	Sample	y Data # of Conta 3/3	ainers Anal	yses KO/VO	<u> </u>	1		Total n	umber of Bottles			
2	Sample) Sampling Bottle Typ	y Data # of Conta 3/3 1364 1/1	ainers Anal G DA	yses KO/VO LO/CPA STAL M	८`5 म`इ	Preserv.		Total n Duplica Field B	umber of Bottles			

Pump Type/Tubing	Type	Temp	/pH/E.C. meter	101 100 100
Bailer Type		Water	Level Probe	WATER LINE
Filter Type	0.45 µm	Other		
4 Well Conditions	OK 💉 Not O	K Explain	ومعارضه والمحافظ والم	and an and a set of the

TIME	6AL	pH	TEMP	COND	DO	TURB	orp	COMONTS
1424	3.0	7.16	16,0	0.379	0.32	107,09	124.0	MODERATE WARY-BROWN MABIDITY, NO, NS
1434	4.0	7.14	16.2	0.374	0.31	88.80	86.4	11, 11, 11, REDUCED FURN RATES.
1450	5.0	7.19	16.8	0.358	0.34	180-51	38.8	1, ", 11. TALGIDITY SPIKED UP TO 250 NTU JUST BEFORE TYNCHING READINGS.
1520	6.0	7.21	17.2	0.376	0.33	58.92	-17.3	CLEAR NO, NS. DECREASED FLOW ARE _
1545	7.0	7.20	17.4	0, 382	0.31	24.15	-27,5	CLEAR, NO, NS

HARTCROWSER Groundwater Sampling Data - Well I.D. HAW- IND

PROJECT	NW of E corn		(~)		DATE	TIME SAM	PLED	9/16/2020	0 090	06
JOB NO.	194	0904			TIDA	LY INFLUE		YES	NO	×
PROJECT	MANAGER	M DA	HOEL		WELL	DEPTH IN	FEET	80)	
FIELD RE	PS	B LYT	LE		SCRE	EENED INTE	ERVAL IN FE	EET 7C	-80	
1) Purging	Data/Field	l Measure	ements: /	All Measuren	ients Relativ	e to Top of	Casing (TOC	C)		
WELL DE	РТН	80'			CASI	NG VOLUM	E IN GALLO	NS	6.7	
DEPTH TO	O SEDIMENT	(DTS) IN FE	ET 7	9.70	[2'	' diam = x .1	63 gal/ft	4" diam = x .	653 gal/ft]	
DEPTH TO	D WATER (DT	W) IN FEET	· .	38.40		GE VOLUME	E IN GALLOI	NS	20:2	Ē.
(DŤS – DT	「W)		41.3	0		JAL PURGE	IN GALLON	1S	4.0	
•			_		Diss.					
	No. of					1	1			
Time	No. of Gallons Purged	pН	Temp in °C	Conduct in <u>m5/cm</u>	Oxygen in <u>ry/L</u>	Turbidity	ORP in <u>m√</u>	Comments:		covery, color, odor cumulated silt/san

INITIA

	Time	No. of Gallons Purged	pН	Temp in °C	Conduct in <u>m5/cm</u>	Diss. Oxygen in <u>ry/L</u>	Turbidity	ORP in_ rr√	Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
NITIAL	0817	0.1	7.87	15.D	0.392	1.06	54.91	278.2	SLIGHTLY GRAM PURBIDITY, NO, NS
	0833	1.0	6.95	15.0	0.381	0.54	31.32	248.5	CLEAR, NO, NS
	૦ક્રમ્પ	2.0	6.84	15.2	0.395	0.39	10.02	187.8	26 × 5 5 5
	0856	3.0	6.88	15.2	0.422	0.35	6.02	134.8	ll, u. u.
samplé:	0906	4.D	6.89	15.3	0.44D	0.33	4.96	98.2	(r) - r - r - r - r - r - r - r - r - r -

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Cont BACK

Yes

K

No

Comments:

	Method	Pumping Rate in GPM	Depth of Equip. in Feet
Purge	55 SUBMERSUBLE	0.08	75
Sample	4	11	LI

Analyses

GRO /VOCS

DRO/ CPAH

TOTAL MANUS

OISSOLVED MORTHLS

	At no. of casing volumes	
	e Water Disposal Method/	
L	/	
Filter	Total number of Bottles	10
	Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D.	

24	JOnl	Pay	
3) Fiel			

Sampling Data

Bottle Type

40ml VOA

500 m L Amber

250 ML POLY

of

31

Containers

3

ţ.

L /1

Type/Brand/Serial No./Material Units

Boils dry?

Pump Type/Tubing	Type <u>SSSUB</u>	°C	Temp/pH/E.C. meter	YSL OSS PRO
Bailer Type			Water Level Probe	WHICE LINE
Filter Type	0.45 pm		Other	
4 Well Conditions	ок 🗶	Not OK E	xplain	

Preserv.

HCI

HN03

HN03

HARTCROWSER Groundwater Sampling Data - Well I.D. HAW-15TB

(e.g., 20' NV PROJECT		nb NB	A)			E/TIME SAM		9/16/2020	BL	
		-					-		-1101-	
JOB NO.	194		Ato						NO X	<u> </u>
PROJECT M		M.D				L DEPTH IN	-	73		
FIELD REPS		B LYT	ι€		SCRI	EENED INTE	RVAL IN FI	eet <u>63-7</u>	3	
) Purging D		d Measure २२	ments: /	All Measuren						
WELL DEPT				7.0		ING VOLUM				
DEPTH TO S		. ,		72.05			•	4" diam = x .653 g	gal/ft]	
DEPTH TO V	WATER (DT	W) IN FEET	·	1.04	PUR	GE VOLU ME	IN GALLO			
(DTS – DTW	")	31.	0			UAL PURGE	IN GALLON	NS <u>3.0</u>	- 7.0 B	
	No. of Gallons		Temp	Conduct	Diss. Oxygen		ORP	Comments: qua		
Time	Purged	pH		in <u>mS/cm</u>		Turbidity	in <u>m</u> V		en, accumula	
1025	0.1	7.96	16.8	0.597	0.95	122.18	-96.3	SLIGHTLY SALTY		
1040	1.0	7.73	16.7	0.602	0.60	76.31	-28.2	11, 11, 1	1	
1052	2.0	7.77	17.1	0.595	0.34	18.47	-)19.7	SUBATLY SALTY NC SUBATLY SALTY	opor, too	- cuera,
80	20	7.79	1	0.596	0.35	17.85	-134.4	SLIGHTLY SACT	1 ODOR, CLEA	R.NS
101	3.0	7.1-1	17.2	0.276	0.55	11.00				
Comments	4,0	7.91 SAMPLING, P	17.2 WMP DAWPO	0.598 0 ~ 2FT	0.42 1 WATER	136,73 BEZAME VIN	-71.9	1), 5064	on BACLL PLING, MOU	310 ity, N
Comments:	4,0 , p.R.r.6 autil's para Method	7.91 SAMPLING, 1 MOTEL READIN	17.2 NUMP DALOPPE NOS (PERC	0.598 0 ~ 2FT CATLL W/ M ng Rate D 1 E	0.42 1 WATEN . 600MAN repth of guip. in Feet	136,73 BEZ AME VIN). DIS (ALOI BO	-71,9 14 -74 BIC MG SAMPL(ills dry? At no. of (1), SUSH CONTINUED D, STOPPERSMI ES INTO IDW, T Yes casing volumes	T GRAY NRG ON BACLL PLING, MOU AKING NEW NO	310 17-9, ~ EN PLOTP . (ANBEL
III8 Comments: D 68 ^t , REST Purge	4,0 , p.R.r.6 autil's para Method	7.91 SAMPLING, P	17.2 WMP DACAPH NGS (PERC PUMPIT IN GPM	$\begin{array}{c c} 0.598\\ \hline 0.598\\ \hline 0 & 2FT\\ \hline CT(L W/M)\\ \hline M \\ \hline \hline \hline M \\ \hline \hline M \\ \hline \hline \hline M \\ \hline \hline \hline \hline$	0.42 1 WATEN . 600 MARN repth of	136,73 BEZAME VEN). DIS (ALOI BO BO	-71,9 14 M BIC MG SAMPL(ils dry? At no. of (arge Water E	1), Suba Continued), Stolded smi 25 IMO IDW, T Yes Casing volumes Disposal Method/Volumes	T GRAY NRG ON BACL PLING, MOU AKING NEW NO	310177, N 100 PMP . (ANBBL
1118 Comments: 19 68', Rest	4,0	7.91 SAMPLING, 1 MOTEL READIN	17.2 NUMP DAUPPE NGS (PER-L Pumpir in GPM O.C	$\begin{array}{c c} 0.598\\ \hline 0.598\\ \hline 0 & 2FT\\ \hline CT(L W/M)\\ \hline M \\ \hline \hline \hline M \\ \hline \hline M \\ \hline \hline \hline M \\ \hline \hline \hline \hline$	0.42 1 WATEN . 600 MARN epth of quip. in Feet	136,73 BEZAME VEN). DIS (ALOI BO BO	-71,9 14 -74 BIC MG SAMPL(ills dry? At no. of (1), Suba Continued), Stolded smi 25 IMO IDW, T Yes Casing volumes Disposal Method/Volumes	T GRAY NRG ON BACL PLING, MOU AKING NEW NO	310 179, ~ EV pomp . (Anber
Lin 8 Comments:	Ц,0	7.91 SAMPLING, O METER READIN	17.2 UMP DAUPP 155 (Pear Pumpir in GPM 0.0 U	$\begin{array}{c c} 0.598\\ \hline 0.598\\ \hline 0 & 2FT\\ \hline CTU & W/M\\ \hline mg Rate & D\\ 1 & E\\ \hline 08 & ($	C.42 <i>I WATEN</i> <i>600 MARN</i> repth of guip. in Feet <i>68</i> 11	136,73 BEZ RANE VIN), D'S (AR O) BO BO	-71,9 M M BIC NG SAMPL(ills dry? At no. of c arge Water E \$0 6AL	1), Suba Continued , Stoldelssmi S IMO IDW, T Yes Casing volumes Disposal Method/Ve / ω SITE P	T GRAY NRG ON BACL PLING, MOU AKING NEW NO	310,179, ~ EV porp . (Anber 1
In 8 Comments: No 68 ^t , <i>legs</i> Purge Sample	H, D H, D ALTING Method SS JU Method SS JU H Data # of Conta	7.91 SAMPLING, O METER READIN MERCI READIN	17.2 UMP DAUPP INS (PEA-D PUMPIN IN GPM O.C U	0.598 e0 ~ 2FT CATL w/ M ng Rate D 1 E Dg (C.42 <i>I WATEN</i> <i>I WATEN</i> <i>I COMMAN</i> Pepth of guip. in Feet <i>G</i> 8 11 Preserv.	136,73 BEZAME VEN). DIS (ALOI BO BO	-71,9 M M BIC NG SAMPL(ills dry? At no. of c arge Water E \$0 6AL	1), Suby CONTINUED), Stolded smil FS IMO IDW, T Yes Casing volumes Disposal Method/Vo / ow SITE P	N GRAY NRG ON BACL PLING, MOU AKING NEW NO	310,179, ~ EV porp . (Anber 1
1118 Comments: For 68', 4554 Purge Sampling Bottle Type 40-1 VOP	H, D H, D ALTING Method SS SUR JI Method SS SUR JI SS SUR	Angline, p Moter readin Moter readin Moter readin Moter reading Moter re	17.2 UMP DAUPP In GPM O.C U U yses P / VOCS	0.598 e0 ~ 2FT cril w/ M ng Rate D 1 E Dg (C.42 <i>I WATEN</i> <i>600 MARN</i> repth of guip. in Feet <i>68</i> 11	136,73 BEZ RANE VIN), D'S (AR O) BO BO	-71,9 M M BIC M SAMPL(ills dry? At no. of (irge Water E \$0 6AL Total n	1), Suby CONTINUED), Stolded smil FS IMO IDW, T Yes Casing volumes Disposal Method/Vo / ow SITE P	N GRAY NRG ON BACL PLING, MOU AKING NEW NO	310 179, ~ EV pomp . (Anber
III 8 Comments: IN 68', etgin Purge Sample Sampling Bottle Type	H, D H, D Autrit ¹⁶ - PARA Method SS SUR H Data # of Conta 3 3 / MGett 1	Angline, p Moter readin Moter readin Moter readin Moter reading Moter re	17.2 UMP DAUPP ISS (PEAL PUMPIN IN GPM 0.0 U U U Sees D / VOCG D / C PAI	0.598 0.598 $0 \sim 2FT$ CATL W/M Dg Rate D $1 = EDg ($	O.42 I WATEM . 600 MARN repth of guip. In Feet 68 11 Preserv. HC1	136,73 BEZ RANE VIN), D'S (AR O) BO BO	-71,9 MG SAMPLI ills dry? At no. of for arge Water D 50 6AL Total n Duplica	1), Substance Continued Continued Stoldel smile FS INPO IDW, The Yes Cassing volumes Disposal Method/Volume / ow SITE umber of Bottles	N GRAY NRG ON BACL PLING, MOU AKING NEW NO	310 17-9, ~ EN PLOTP . (ANBEL
1118 Comments: Purge Sample Sampling Bottle Type 40-L VOA 500 ml AA	Ц,0 → D-Rir6 Autrit'6-рид Method SS SUR µ y Data # of Conte 3 3 / mBen 1 / ELY 1	Angline, p MOTEL READIN MOTEL READIN MORSIBLE almers Anal 3 GR 1 DR	yses b) / VOCS b) / CDA	0.598 e0 ~ 2FT CATL w/ M ng Rate D 1 E D8 (C.42 I WATEN 600MAAN Pepth of guip. in Feet 68 11 Preserv. HC1 HN03	136,73 <u>BEZ AME VIN</u>), DIS (ALO) BO PU 1 Filter	-71,9 14 M. BIG MG SAMPL(ills dry? At no. of (irge Water E 50 6AL Total n Duplica Field B	1), S CIGH CONTINUED CONTINUED A STORDED SMIL FS IMO IDW, T Yes casing volumes Disposal Method/Vo Image: Image of Bottles umber of Bottles ate Sample I.D.	N GRAY NRG ON BACL PLING, MOU AKING NEW NO	310 17-9, ~ EN PLOTP . (ANBEL
1118 Comments: 0.68 ¹ , essimilar Purge Sample Sampling Bottle Type 40-L VOP 500 - L AP 2.50 - L R	H, D H, D AUTIVE - PHAN Method SS SUR H Data Mof Conta A 3/ MGen 1/ L L MU	Angline, p MOTEL READIN MOTEL READIN MORSIBLE almers Anal 3 GR 1 DR	yses b) / VOCS b) / CDA	0.598 0.598 $0 \sim 2FT$ CATL W/M Dg Rate D $1 = EDg ($	C.42 I WATEN 600MAAN Pepth of guip. in Feet 68 11 Preserv. HC1 HN03 HN03	136,73 <u>всгале van</u>). Dis (41.0) Во Ри 1 Гііter 	-71,9 14 M. BIG NG SAMPL(ills dry? At no. of 0 irge Water E So 6AL Total n Duplica Field B M Rinsea	1), Subsp. (CONTINUED), STORDER SMILL 3, STORDER SMILL FS INPO IDW, T Yes Cassing volumes Disposal Method/Vol / ωω SITE P umber of Bottles ate Sample I.D. lank I.D.	т блач Ила от Васки релье, мож актов New No Dume 10	310,179, ~ EV porp . (Anber 1
Purge Sampling Bottle Type 40-L VOP 500-ML AP 250-ML RI 250-ML RI 250-ML RI 250-ML RI	4,0 ++,0 	Angline, p MOTEL READIN MOTEL READIN MORSIBLE almers Anal 3 GR 1 DR	17.2 WMP DAUPP In GPM Pumpir in GPM O.C U U yses p/VOCS to / CDA1 to TAL 21 SSOC UPS	0.598 e0 ~ 2FT CATLL W/M ng Rate D 1 E D8 (1 1 1 5 METHLS 0 METHLS	C.42 I WATEN I WATEN I GOOMAAN Pepth of quip. in Feet (8 II Preserv. HCI HND3 HND3 HNO3	136,73 <u>всгале van</u>). Dis (41.0) Во Ри 1 Гііter 	-71,9 17 THE BIC MG SAMPLY ills dry? At no. of the rige Water D So 6AL Total n Duplica Field B Rinsea ad/Serial fill	1), Subj CONTINUED CONTINUED CONTINUED Stoldel smile FS IND IDW, T Yes casing volumes Disposal Method/Vo / ow SITE umber of Bottles ate Sample I.D. Hank I.D. te Sample I.D.	IT GRAY NRG	310 179, ~ EV pomp . (Anber
In 8 Comments: The 68', 255 Purge Sample Sampling Bottle Type Hort VOP 500 mi Av 250 mL Ri 250 mL Ri 250 mL Ri 250 mL Ri	H, D H, D H, D Hethod SS Ju Method SS SJR H Method SS Ju Ju Ju Ju Ju Ju Ju Ju Ju Ju	Anglines Anal 3 GR	17.2 WMP DAUPP In GPM Pumpir in GPM O.C U U yses p/VOCS to / CDA1 to TAL 21 SSOC UPS	0.598 e0 ~ 2FT CATLL W/M ng Rate D 1 E D8 (1 1 1 5 METHLS 0 METHLS	$\begin{array}{c} 0.42 \\ 1 \text{ WATEN} \\ .600 \text{MARN} \\ \end{array}$ epth of quip. in Feet (8 11) $\begin{array}{c} 0.42 \\ .600 \text{MARN} \\ \end{array}$	136,73 <u>BEZ BANE VEN</u>), DIS (40.01) Bo Pu 1 Pu 2 	-71,9 17 M. BIG M. SAMPLO ills dry? At no. of 0 rige Water I So 6AL Total n Duplica Field B M. Rinsea od/Serial for C. meter	1), ≤ closs CONTINUED 0, Stoldel smill F5 IMO IDW, T Yes casing volumes Disposal Method/Vo / ω SITE P umber of Bottles ate Sample I.D. iank I.D. te Sample I.D. Mo./Material U Y51 DS	IT GRAY NRG	310 17-9, N EV Pront (Antiber

RESTANTED PALAMETERS :

TIME	6AL	pH	TEMP	COND	00	TYAB	OPP	CAMMENTS	
118	4.0	7.91	17.2	0.598	0.4-2	136.73	-71.9	SCIGHTLY SALTY OBJC, SLIGHT GRAN THEBIDITY	NS
1132	5,0	7.88	17.8	0.601	0,35	39.53	-135.4	it, clear, NS	
1143	6.0	7.88	17.9	0.601	0.33	33.49	- 150.3	clenk, NO, NS	
1155	7.0	7.88	17,9	0.603	0.33	16.71	- 158.4	12 H KA 1 1 1	

*	PER	CONVOLSATION W/ M. PAGEL: PUR	OF 0.5-1.0 GALLON TO	REAU E E INITIALLY	filbrian majoing.
рат.		THEN, SAMPLE WIT	OUT WAITING FOR PARAMET.	BUT 23 22 224BILIZE	TO ENSURE ENOUGH
		volume produced to	SET BOTTLES FILLED.		
		HARTCROWSER	Groundwater Sam	pling Data - We	11 1.D. HMW-16IB
		WELL LOCATION DESC. (for new wells) (e.g., 20' NW of E corner of building A)	39		

PROJECT	M	1B	 DATE/TIME SAMPLED	9/1	8/2020	ÛK	50
JOB NO.	19	40904	TIDALLY INFLUENCED	YES		NO	K
PROJECT MA	NAGER	M. DAGEL	WELL DEPTH IN FEET		65		
FIELD REPS		B. Lyne	SCREENED INTERVAL II	N FEET	55-6-	5	

1) Purging Data/Field Measurements: All Measurements Relative to Top of Casing (TOC)

WELL DEPTH 65		CASING VOLUME IN GALLONS
DEPTH TO SEDIMENT (DTS) IN FEET	63.92	[2" diam = x .163 gal/ft 4" diam = x .653 gal/ft]
DEPTH TO WATER (DTW) IN FEET	39.18	PURGE VOLUME IN GALLONS 12, 0
(DTS-DTW) 24.77	· · · · · · · · · · · · · · · · · · ·	ACTUAL PURGE IN GALLONS

	Time	No. of Gallons Purged	pН	Temp in °C	Conduct in <u>mS/c</u> M	Diss. Oxygen in <u>mp/L</u>	Turbidity		Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
IN MAL	0827	0.1	6.98	18.1	1.173	1.39	40,50	93.0	CLEAR, SUGAR SUFFUR-LIKE OBOK, NS
	0838	0.5	6,94	17.9	1.177	0.52	55,30	-92.3	CLEAR, SMUTS SULFUR-LUCE SDER, NS
SAMPLE	0850	1.0	7.18	18.0	1.178	0.45	28.47	-141.5	
sampl e:									

Comments:

	Method	Pumping Rate in GPM	Depth of Equip. in Feet
Purge	55 SUBMERISIBLE	0.04	60
Sample	И	11	ţ١

Boils dry?	Yes	N	• <u> × </u>	
At no. of	casing volumes			
Purge Water [Disposal Method	Volume		

9

ON SITE DRUM / 1.5 GAL

Total number of Bottles

Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D.

²) Sampling Data

Bottle Type	# o Co	f ntainers	Analyses	Preserv.	Filter
40 ml VOA	3	3	GRO/VOLS	HCI	
500 AL AMBER		1	CPAHS		~··
250 ml Poly		1	TOTAL METALS	+1103	Contraction of the local division
250 ml Pari		L	Dissolved Metmis	HWOS	0.45 m

3) Field Equipment

Type/Brand/Serial No./Material Units

	Pump Type/Tubing	Type <u>5, 5vb/</u> PE	Temp/pH/E.C. meter	451 055 PRO
	Bailer Type	La analan an a	Water Level Probe	water line
	Filter Type	0.45 m	Other	
4	Well Conditions	OK 🖌 Not OK	Explain	

NO SAMPLES TAKEN 9/16/2020

RTCROWSER Groundwater Sampling Data - Well I.D. HAW-161B

WELL LOCATIO	ON DESC. (for new wells)	
(e.g., 20' NW	of E corner of building A)	
PROJECT	MMB	DATE/TIME SAMPLED 916 20
JOB NO.	1940904	
PROJECT MAN	NAGER M DAGEL	WELL DEPTH IN FEET (65
FIELD REPS	BLANE	SCREENED INTERVAL IN FEET 55-65
1) Purging Da	ta/Field Measurements: All Mea	surements Relative to Top of Casing (TOC)
WELL DEPTH	65	CASING VOLUME IN GALLONS

DEPTH TO SEDIMENT (DTS) IN FEET	63.95	[2" diam = x .163 gal/ft 4" diam = x .653 gal/ft]	
DEPTH TO WATER (DTW) IN FEET	39.18	PURGE VOLUME IN GALLONS 12.0	_
(DTS-DTW) 24.77			

	Time	No. of Gallons Purged	pН	Temp in °C	Conduct in <u>wS [ct^</u>	Diss. Oxygen in <u>ma//</u>	Turbidity	ORP in_mV	Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
INMAL	1320	0.1	7.92	18.0	1,210	0.61	520.76	74.6	SHON'S SULFULELIKEODOK, STEANL DALK ORAM TOKEIDITY, NS
	1339	1.0	7,39	18.1	1188	0.38	74.91	-194.3	SHONG SULFUL- DIKE ODDA, SLIDIT SRAY WABIDITY, NS
	1350	2.0	7.37	18.4	1189	0.27	36.86	-215.4	CLEAR, STRONG SULFUR-LILLS
	13.57	3,0	7.36	18.6	1191	0.27	3 3,50	- 220.2	CLEAN, MODERATE SULFUR-LIKE DECE,
-sample:	1414	4.0	7.44	20.2	1188	0.25	35.51	-224.6	4×, 11 / 11
								7	CONTINUED ON BALK

Comments:	WITIALLY	VERY TURBID	CLEMED	CONSIDERADLY	AFTER ~	0.25 - 0.5	GAL.	TURBIDITY	5 PI KEYO	TO	70 NN
	1215 2										

>. OEURBASED FLOW RATE. JULT ATTER 3 GALLON

	Method	Pumping Rate in GPM	Depth of Equip. in Feet
Purge	55 SUDMENSIBLE	0.08	60.0
Sample	11	ly .	e t

Boils dry?	Yes _	<u> X </u>	No	
At no. of	casing volu	mes	1	
Purge Water I				
ON SITE	ORUM	15.00	ORL	

Total number of Bottles _____10

²) Sampling Data

	# of				
Bottle Type	Con	tainers	Analyses	Preserv.	Filter
40ml VOA	3	3	GRO/VOLS	HCI	-
500 ml Ambaa	. 1	1	DEO/CPATIS	-	
250 ML POLY	1		TOTAL METALS	HW03	
250ml Poly			DISSOLUED METELS	HND 3	0.45 m

Field Equipment 3

Type/Brand/Serial No./Material Units

Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D.

Pump Type/Tubing Ty	pe <u>ss sub/p</u>	3	Temp/pl	I/E.C. meter	YSI DSS PRO
Bailer Type			Water Le	evel Probe	WATER LINE
Filter Type	0.45 µm		Other		andali 4 (Sakalamanga, <u>ang ang ang ang ang ang ang ang ang ang </u>
4 Well Conditions	ок 🔀	Not OK Exp	lain	۵۵ ماند. ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰	

Com ENTS

- 1420 FLOW STOPPED. WATCH LEVEL IS ~ IFT ABOVE PUMP. LOWELOW TO 61 PT, STATING DUMP AVAN. TURGIDITY SPILLED TO EVER 900 NTO.
- 1435 WEBIDITY REP^T INCREMSING EVEN WIM VERT LOW FLOW PATE. CALLOD MELISSA, SHE SUBJESTS WATENE IT OUT WITH POMULAON. STOPPING FLOW, WATENE FOR RECOVERY, BUT LIKERY STOPPING UNTIL PMULAON,
- 1525 RESTANTED PUMP. WATER CARE OUT AT 1500 + NTV & LEVEL DROPADO QUILLLY. MARISSA ELION ENOS WATTING 24 FRS, TUYING ADATIN, BUT SAMPLING RIGHT ANOUND & GALLENS EVEN IF TURBIDITY > BONTO AS BEST - CASE SCIENANIO IF TURBIDITY SPILLES SO MUCH AFTER PURGING WELL VOLUME.

TIME	GAL	pH	Temp	COND	Do	TURB	OR-P	Comments
1414	4.0	7.44	20.2	1188	0.25	35.51	-224.6	CLEAN, MUDBRATTE SULFUR-LINE UDON, NS

* 1 SAMPLE TO BE SUBMITTED FOR ANALYSIS

F

HARTCROWSER Groundwater Sampling Data - Well I.D. HAW-1618

	WELL LOCA (e.g., 20' N	TION DESC W of E corn	•	·						<u> </u>		
	PROJECT	MM	B			DATI	E/TIME SAM		9/17/2020	1040		
	JOB NO.	194	09 04			TIDA		NCED Y	/ES	NO	×	
	PROJECT N	IANAGER	M	2+6 EL		WEL	WELL DEPTH IN FEET 65					
	FIELD REPS	s	BU	4TL 6		SCR		ERVAL IN FE	ET 55-0	• 5		
1	Purging I	Data/Field	l Measur	ements: A	All Measure	ments Relati	ve to Top of	Casing (TOC)			
	WELL DEPT	н	6	5		CAS	ING VOLUM	E IN GALLO	NS 4.0)		
	DEPTH TO	SEDIMENT	(DTS) IN FE	EET <u>6</u>	3,95	[2	" diam = x .1	63 gal/ft	4" diam = x .65	i3 gal/ft]		
	DEPTH TO	WATER (DT	W) IN FEET	т <u>39</u>	1.21	PUR			ns ta	2. 0		
	(DTS - DTW	/)	24	1.74			UAL PURGE	IN GALLON	is <u>2,5</u>	·		
		No. of		1		Diss.		r			· · ·	
V (600C)	Time	Gallons Purged	рН	Temp in °C	Conduct in <u>MS/cr</u>	Oxygen	Turbidity	ORP		quality, recover sheen, accumu	• • • • •	
11.5 [NITIAL -	0930	0.1	7.61	17.7	1.184	0.84	95.49	94.6	INITIALLY SULE	HTY WASID,	Monb N <	
43.9	0957	1.0	7.35	18.1	1.189	0.51	41.02	-139.7		ATTE SULFUR-		
16.1	1013	1.5	7.40	18.7	1.190	0.38	24.93	-162.1	CLEAR, NO,	NS		
47.75	1029	2,0	7.42	18,9	1-185	0.35	20.47	-17109	<i>u</i> , 11	1, 11		
49.85 sample:	1040	2.5	7.43	19.0	1.183	0.35	21.31	- 178,3	11, 11,	ų		
12		Method	PER M	PAGE Pumpin in GPM 0,04	g Rate E	Depth of Equip. in Fee 60, 0	t Вс	oils dry? At no. of c	Yes Yes casing volumes visposal Method	N		
2) Sampling	ONLY SU	BM ITTING	1 AMB	en to l	LAB DUE	n tre	פיר וסוש				
	Bottle Typ	# of e Conta		alyses		Preserv.	Filter	Total nu	umber of Bottles	s <u>+0</u> _	TAKEN	
	40 ML VOA			RD / VOCS		HCI						
· 4	500 mi A	neen 1/		No/ CPA			· · · · ·	•	ite Sample I.D.			
	250 mL	Poly 1		TAL ME		H NO3			lank I.D.			
	250 ml	Pory	D	15 SOLV KO /M	etal s	HN03	0.45,	Rinseat	te Sample I.D.			
3) Field Eq	uipment				-	Type/Brar	nd/Serial I	No./Material	Units		
	Pump Typ	e/Tubing T	ype 🗧	55 500 /	PE	-	Temp/pH/E	.C. meter	Ч	151 pss (MO	
	Bailer Typ	е	~				Nater Leve	l Probe	WATZ	LLINE		
	Filter Type		0.45 L	m			Other					
4	Well Co	nditions		ок 🔬	Not OK	Explai	n					
45' 100 46' 10 47' 107 48 103 48 103 50	に ここと いた いた いた いた いた いた いた いた いた いた いた いた いた	s\Field & Lab\	Groundwater :	Sampling Data	Form.doc							

* 1 SAMPLE TO BE SUBMITTED FOR ANALYSIS

F

HARTCROWSER Groundwater Sampling Data - Well I.D. HAW-1618

	WELL LOCA (e.g., 20' N	TION DESC W of E corn	•	·						<u> </u>		
	PROJECT	MM	B			DATI	E/TIME SAM		9/17/2020	1040		
	JOB NO.	194	09 04			TIDA		NCED Y	/ES	NO	×	
	PROJECT N	IANAGER	M	2+6 EL		WEL	WELL DEPTH IN FEET 65					
	FIELD REPS	s	BU	4TL 6		SCR		ERVAL IN FE	ET 55-0	• 5		
1	Purging I	Data/Field	l Measur	ements: A	All Measure	ments Relati	ve to Top of	Casing (TOC)			
	WELL DEPT	н	6	5		CAS	ING VOLUM	E IN GALLO	NS 4.0)		
	DEPTH TO	SEDIMENT	(DTS) IN FE	EET <u>6</u>	3,95	[2	" diam = x .1	63 gal/ft	4" diam = x .65	i3 gal/ft]		
	DEPTH TO	WATER (DT	W) IN FEET	т <u>39</u>	1.21	PUR			ns ta	2. 0		
	(DTS - DTW	/)	24	1.74			UAL PURGE	IN GALLON	is <u>2,5</u>	·		
		No. of		1		Diss.		r			· · ·	
V (600C)	Time	Gallons Purged	рН	Temp in °C	Conduct in <u>MS/cr</u>	Oxygen	Turbidity	ORP		quality, recover sheen, accumu	• • • • •	
11.5 [NITIAL -	0930	0.1	7.61	17.7	1.184	0.84	95.49	94.6	INITIALLY SULE	HTY WASID,	Monb N <	
43.9	0957	1.0	7.35	18.1	1.189	0.51	41.02	-139.7		ATTE SULFUR-		
16.1	1013	1.5	7.40	18.7	1.190	0.38	24.93	-162.1	CLEAR, NO,	NS		
47.75	1029	2,0	7.42	18,9	1-185	0.35	20.47	-17109	<i>u</i> , 1	1, 11		
49.85 sample:	1040	2.5	7.43	19.0	1.183	0.35	21.31	- 178,3	11, 11,	ų		
12		Method	PER M	PAGE Pumpin in GPM 0,04	g Rate E	Depth of Equip. in Fee	t Вс	oils dry? At no. of c	Yes Yes casing volumes visposal Method	N		
2) Sampling	ONLY SU	BM ITTING	1 AMB	en to l	LAB DUE	n tre	פיר וסוש				
	Bottle Typ	# of e Conta		alyses		Preserv.	Filter	Total nu	umber of Bottles	s <u>+0</u> _	TAKEN	
	40 ML VOA			RD / VOCS		HCI						
· 4	500 mi A	neen 1/		No/ CPA				•	ite Sample I.D.			
	250 mL	Poly 1		TAL ME		H NO3			lank I.D.			
	250 ml	Pory	D	15 SOLV KO /M	TETAL S	HN03	0.45,	Rinseat	te Sample I.D.			
3) Field Eq	uipment				-	Type/Brar	nd/Serial I	No./Material	Units		
	Pump Typ	e/Tubing T	ype 🗧	55 500 /	PE	-	Temp/pH/E	.C. meter	Ч	151 pss (MO	
	Bailer Typ	е	~				Nater Leve	l Probe	WATZ	LLINE		
	Filter Type		0.45 L	m			Other					
4	Well Co	nditions		ок 🔬	Not OK	Explai	n					
45' 100 46' 10 47' 107 48 103 48 103 50	に ここと いた いた いた いた いた いた いた いた いた いた いた いた いた	s\Field & Lab\	Groundwater :	Sampling Data	Form.doc							

HARTCROWSER Groundwater Sampling Data - Well I.D. HMW-175

JOB NO. 1940904 TIDALLY INFLU	LUENCED YES NO
PROJECT MANAGER M PALEL WELL DEPTH	HIN FEET 45
FIELD REPS BLYDE SCREENED IN	NTERVAL IN FEET 35-45
) Purging Data/Field Measurements: All Measurements Relative to Top of	of Casing (TOC)

DEPTH TO SEDI	MENT (DTS) IN FEET	41.30	[2" diam = x .163 gal/ft 4"	′ diam = x .653 gal/ft]
DEPTH TO WATE	ER (DTW) IN FEET	29,82	PURGE VOLUME IN GALLONS	5.61
(DTS – DTW)	11.48		ACTUAL PURGE IN GALLONS	2.5

	Time	No. of Gallons Purged	pН	Temp in °C	Conduct in <u>r S ca</u>	Diss. Oxygen in <u>ma/L</u>	Turbidity	ORP in_m√	Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
INMAL	0743	0.1	6.4Z	17.1	0.594	2.50	1722.49	294.7	INITIAL SKEWS BOAT BOOM TURBLOUTS, NO, NS
	0758	1.0	6.02	17.7	0.594	2.02	351.30	286.8	SMOUG GRAY TURBIDITY, NO. NS
	0812	1.5	6.08	17.7	0.595	1.94	50.66	269.4	SLILLETLY TURBID, NO, NS
	0823	2.0	6.27	17.7	0.597	2.08	48.11	253.6	α α α
sample:	083 2	2.5	6.33	17.9	0.596	2.10	22.33	201.4	CLEAR, NO, NS

Comments: TURBIDITY SPILLED FROM ~35 TO 50 NTV JUST PRIOR TO 2.0 GAR REMAINES,

	Method	Pumping Rate in GPM	Depth of Equip. in Feet
Purge	SS SUBMONSIBLE	0.05	40
Sample	N	11	Ц

Boils dry?	Yes _		· •	<u>ا</u> ه	
At no. c	f casing volu	mes			
Purge Water			ime		
ON SITE	DRUM /	30			

10

²) Sampling Data

	# of			
Bottle Type	Containers	Analyses	Preserv.	Filter
40 WOL VOA	3/3	GRO/ VOCS	HCI	
500ml Anber	1/1	pro/ cPAHS		-
250 N.L POLY	1	TOTAL MENALS	HNO3	
250 mil Poly		DISSOLVED MONALS	HWU3	0.454

³) Field Equipment

Type/Brand/Serial No./Material Units

Total number of Bottles

Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D.

Pump Type/Tubing ⁻ Bailer Type	Туре <u>55 508 /</u>	PE	Temp/pH/E.C. meter Water Level Probe	451 DSS PRO WATER LINE
Filter Type	0.45 pm		Other	
4 Well Conditions	ок 🔀	Not OK E	plain	·:

HARTCROWSER Groundwater Sampling Data - Well I.D. HMW-185

			er of building A)					lala a	171	2
	PROJECT	M		<u> </u>			TIME SAM	PLED 1	1/17/2020 YES	0 151	
	JOB NO.		40904				LY INFLUE			NO	<u> </u>
			M. (DEPTH IN		45		
	FIELD REPS	S	B. L	TRE		SCRE	ENED INTE	ERVAL IN F	EET 35	-45	
	Purging I	Data/Field	l Measuren	nents: A	\// Measuren	nents Relativ	e to Top of (Casing (TO	iC)		
	WELL DEPT	гн	45	_		CASI	NG VOLUMI	E IN GALL	ONS	9	
	DEPTH TO	SEDIMENT	(DTS) IN FEET	r 3 0	47- 43	.25 [2*	diam = x .1	63 gal/ft	4" diam = x .0	653 gal/ft]	
	DEPTH TO	WATER (DT	W) IN FEET	30	9.47	PURC			ONS	5.8	
	(DTS – DTV	V)	11.88			ACTL	IAL PURGE	IN GALLO	INS		·
		No. of				Diss.					
	Time	Gallons Purged	рН	Temp in °C	Conduct in <u>mS lan</u>	Oxygen in <u>my/L</u>	Turbidity		Comments:		covery, color, odor, color, color, color, color,
IMAL	1210	0,1	8.17	18.1	0.554	1.30	77.92	153.6	IN ITALLY	CLEAR, N	io, NS
-	1232	1.0	7.21	19.0	0,549	0,84	26.13	107.0	CLEAR, 1		
	1302	2.0	7.08	18,6	0.542	0.71	6-11	49.6		и, и	
SAMPLE	13.17	3,0	7.08	18.5	0.543		4.97	33.6		<u>, '(</u>	
sample:											
aumpie.					·						
<u>Jumpie.</u>	Comments	s:			· · · · · ·		· .	I		· · · · · · · · · · · · · · · · · · ·	
<u>Sumple.</u>	Comment	s:					· · · · · · · · · · · · · · · · · · ·				
<u>sumple.</u>	Comments	s: Method		Pumpir in GPM	-	epth of quip. in Feet		bils dry?	Yes		No
200000	Comments Purge	Method	MERSIBLE		E			At no. of	f casing volume	es	No
<u>2001-pic</u>		Method	MERS IB LE	in GPM	E	quip. in Feet		At no. of arge Water	f casing volume Disposal Methe	es od/Volume	
	Purge	Method 55 SuBi	MERSIBLE	in GPM	E	quip. in Feet 40		At no. of arge Water	f casing volume	es od/Volume	
2	Purge	Method 55 Sollin	MERSIBLE	in GPM	E	quip. in Feet 40		At no. of arge Water	f casing volume Disposal Methe	es od/Volume	
2	Purge Sample	Method 55 Sollin	MERSIBLE	in GPM	E	quip. in Feet 40		At no. of urge Water Or Str	f casing volume Disposal Methe	es od/Volume / H.0 G/	
2	Purge Sample) Samplin Bottle Typ	Method 55 5-61 11 g Data pe f of Conta	ainers Analys	in GPM Ore M	ο ί	quip. in Feet 40 κ Preserv.		At no. of urge Water Or Str	f casing volume Disposal Metho TE ORUM /	es od/Volume / H.0 G/	4L
2	Purge Sample) Sampling Bottle Typ 40mL Vo	Method SS Sold Ix g Data g Data pe Conta art 3	ainers Analys 3 (in GPM Ore M	с 9 (ј 	quip. in Feet 40 μ	Pu 	At no. of urge Water Or Su	f casing volume Disposal Metho TE ORUM /	es	4L
2	Purge Sample) Sampling Bottle Typ 40mL VC 500mL A	Method 55 5-61 11 11 g Data 4 pe 4 conta 3 press 1	ainers Analys 3 Grad Dro	in GPM O.c h Sees (pA	р ц Е р ц 	quip. in Feet 40 μ Preserv. Acs 	Pu 	At no. of urge Water Or ^J 5 (1) Total 1 Duplic	f casing volume Disposal Metho TE ORUM / number of Bott	es	4L
2	Purge Sample) Sampling Bottle Typ 40 mL VC 500 mL AI 250 mL (P	Method 55 5-61 11 1 g Data 4 pe 4 conta 3 pe 1 pe 23 pe 1 pe 1	ainers Analys 3 Grad Dad Tota	in GPM O.c h Sees / Voc / C PA m Meth	ا E بالع بالع ۲۱۰۶	quip. in Feet 40 μ Preserv. A C I 	Filter	At no. of urge Water Or ¹ S (1) Total f Duplic Field	f casing volume Disposal Metho TE OAUM number of Bott cate Sample I.E	es	4L
2	Purge Sample) Sampling Bottle Typ 40mL VC 500 mL AI 250mL (250mL (Method 55 5 - B, 11 g Data g Data g Data g Data 1 2R $32R$	ainers Analys 3 Grad Dad Tota	in GPM O.c h Sees (c pA	ا E بالع بالع ۲۱۰۶	yuip. in Feet 40 II Preserv. A ⊂ I MNO3 MNO3 MNO3	Filter	At no. of urge Water Ord Sut Total of Duplic Field S Rinse	f casing volume Disposal Metho TE OAUM number of Bott cate Sample I.D Blank I.D. eate Sample I.D	es od/Volume / H.0 G/ ies ies)	4L
2	Purge Sample) Sampling Bottle Typ 40 mL VC 500 mL AI 250 mL (P	Method 55 5 - B, 11 g Data g Data g Data g Data 1 2R $32R$ $32R$ $32R$ $32R$ $112R$ $12R$ 1	ainers Analys 3 Grad Dad Tota	in GPM Oro M Sees / Voc / C PA n Meth North M	PIS etals	yuip. in Feet 40 II Preserv. A ⊂ I MNO3 MNO3 MNO3	Filter	At no. of urge Water Ord Sut Total of Duplic Field S Rinse	f casing volume Disposal Metho TE ORUM number of Bott cate Sample I.E Blank I.D.	es od/Volume / H.0 G/ ies ies)	4L
2	Purge Sample) Sampling 40 mL VC 500 mL AU 250 mL (P 250 mL (P) 250 mL (P) 250 mL (P)	Method 55 5081 IX g Data g Data	ainers Analys 3 Grad Dad Tota	in GPM O.C M Sees O. / VOC O. / C PA N. MET OLUED M	ا E بالع بالع ۲۱۰۶	quip. in Feet 40 μ Preserv. A C I M/403 M/403	Filter	At no. of arge Water Or ^J S (1) Total of Duplic Field Rinse ad/Serial	f casing volume Disposal Metho TE OAUM number of Bott cate Sample I.D Blank I.D. Blank I.D. Blank I.D. I No./Materi Y31	es od/Volume / H.0 Gr ies ies 0 0 al Units 0.5 pr	4L
2	Purge Sample) Sampling 40 mL VC 500 mL AU 250 mL (P 250 mL (P) 250 mL (P) 250 mL (P)	Method SS Sold It g Data g	ainers Analys 3 (g. e.u) Dro 78 TV 1 (D.SS)	in GPM O.C M Sees O. / VOC O. / C PA N. MET OLUED M	PIS etals	quip. in Feet 40 к Ргезету. 4 с 1 4 с 1 4 с 1 4 с 1 4 с 3 4 с 1 5 с 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1	Filter 	At no. of arge Water Or ^d Str Total a Duplic Field B Rinse ad/Serial .C. meter	f casing volume Disposal Metho TE OAUM number of Bott cate Sample I.D Blank I.D. Blank I.D. Blank I.D. I No./Materi Y31	es od/Volume / H. 0 G/ les les b o al Units	4L

FF

MARTCROWSER Groundwater Sampling Data - Well I.D. HAW-195

	PROJECT	MI	er of building ላ ይ	~)		DATE	TIME SAM		9/17/2020	1440
	JOB NO.	-	10904	· · · ·			LY INFLUE	-	YES	NO K
		MANAGER		DAGEL			DEPTH IN		45	
	FIELD REP		Bil					_	EET 35-4	5
\bigcirc										
(1)	Purging	Data/Field	l Measure	ements: A	All Measur	ements Relativ	e to Top of	Casing (TOC)	
	WELL DEP	тн	45	/		CASI	NG VOLUM	E IN GALLO	NS Z.	0
		SEDIMENT	(DTS) IN FE	ет 47-	05		' diam = x .1		4" diam = x .65:	
		WATER (DT	. ,			·		E IN GALLOI		
KUP 26		∧)	-						ALL DE LE	
				,		A010		IN OALLON	·0 <u>->/(</u>	inde ^{ga} .
		No. of Gallons		Temp	Candua	Diss.		0.55		
	Time	Purged	pН	Temp in °C	in 5/0	t Oxygen	Turbidity			quality, recovery, color, odor sheen, accumulated silt/san
INITIAL	1400	0.1	7.66	18. 2	0.585		434.60	122.4		NO. NS NEBIDITY,
	1412	1.0	6.85	18.2	0.58	2 0.56	176.11	1.4	MOD BUATE DA	AT THIS IDITY, NO, NS
	1428	2.0	6.63	17.6	0.58		45.55	4-40.8	CLEAR, NO, I	vs
						0.15	12.22	- T*		
		3,0	6.58	10.11	COL					
comple	. 144n	1 2.0	10.00	144	1 0.581		7. 64	-20 2	11 4	1(
sample	Comment	1	0,58	17.4	0.58(0 0.41	21.59	-38.2		, ι(
sample	L	s:	0, 5 8	Pumpin	g Rate	Depth of	 Bc	ils dry?	Yes	NoX
sample	Comment	s: Method		Pumpin in GPM	g Rate	Depth of Equip. in Feet	Bc	oils dry? At no. of c	Yes	NoX
sample	Comment	S: Method SS S-B		Pumpin	g Rate	Depth of Equip. in Feet 40(42.9)	Вс	ils dry? At no. of c	Yes casing volumes Disposal Method/	No
sample	Comment	s: Method		Pumpin in GPM 0.0	g Rate	Depth of Equip. in Feet	Вс	ils dry? At no. of c	Yes	No
sample	Comment Purge Sample	S: Method SS Suff		Pumpin in GPM 0.0	g Rate	Depth of Equip. in Feet 40(42.9)	Вс	ils dry? At no. of c	Yes casing volumes Disposal Method/	No
sample	Comment	S: Method SS Suff		Pumpin in GPM 0.0	g Rate	Depth of Equip. in Feet 40(42.9)	Вс	ils dry? At no. of c	Yes casing volumes Disposal Method/	No
sample	Comment Purge Sample	s: <u>Method</u> <u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>	3	Pumpin in GPM 0.0 11	g Rate	Depth of Equip. in Feet 40 (42.9)	Bc	hils dry? At no. of c arge Water D At cine	Yes casing volumes Disposal Method/	NoX Volume
sample	Comment Purge Sample) Samplin Bottle Typ	s: Method SSSv£ UN g Data # of Conta	iners Anal	Pumpin in GPM 0.0 11	g Rate	Depth of Equip. in Feet 40 (42.9) \\ Preserv.	Вс	hils dry? At no. of c arge Water D At cine	Yes casing volumes Disposal Method/ DRum / V.D	NoX Volume
sample 2	Comment Purge Sample) Samplin Bottle Typ 40 _{mt} Vc	s: Method SS S-E IN g Data pe Conta A 3/3	iners Anal	Pumpin in GPM 0.0 11	g Rate 7- 26 5	Depth of Equip. in Feet 40 (42.9)	Bc	ils dry? At no. of c الالالالة من د التو Total ni	Yes casing volumes Disposal Method/ DRum / V.D	NoX Volume
sample 2	Comment Purge Sample) Samplin Bottle Typ 40 _{mt} VC 500 _{mt} A	s: Method SS Suff UN g Data # of Conta % 3 3 %gen 1 /	iners Anal	$\begin{array}{c c} Pumpin \\ in GPM \\ 0.0 \\ 11 \\ 11 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 1$	g Rate 7 20 20 20 20 20 20 20 20 20 20 20 20 20	Depth of Equip. in Feet 40 (42.9)	Bc	ils dry? At no. of c arge Water D مر د بته Total n Duplica	Yes casing volumes Disposal Method/ DAUM / V.O	NoX Volume
sample 2	Comment Purge Sample) Samplin Bottle Typ 40 _{mL} VC 500 mt A 250 mt A	s: Method SS S-E UN g Data # of Conta A 3/3 Mgen 1/ Ppin 1	iners Anal	Pumpin in GPM 0.0 11 yses Geo / VC DRO / C	9 Rate 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7-	Depth of Equip. in Feet 40 (42.9) \\ Preserv. HC1 HC1 H(NO 3	Filter	ils dry? At no. of c ایرو Water D مرد در اترو Total ni Duplica Field B	Yes casing volumes Disposal Method/ DRUM / V.O umber of Bottles ate Sample I.D.	NoX Volume
2	Comment Purge Sample) Samplin Bottle Typ 40 _{mL} VC 500 mL 250 mL 250 mL	s: Method 55 5-B 1 g Data g Data g Data g Data f of f	iners Anal	$\begin{array}{c c} Pumpin \\ in GPM \\ 0.0 \\ 11 \\ 11 \\ 12 \\ 12 \\ 12 \\ 12 \\ 12 \\ 1$	9 Rate 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7-	Depth of Equip. in Feet 40 (42.9) N Preserv. HCI HOO 3 HNO 3	Filter 	Total nu Duplica Field B Rinsea	Yes casing volumes Disposal Method/ <u>Dawn</u> / V.O umber of Bottles ate Sample I.D. lank I.D. te Sample I.D.	No X Volume 6AC
sample 2	Comment Purge Sample) Samplin Bottle Typ 40 _{mL} VC 500 mL 250 mL 250 mL	s: Method SS S-E UN g Data # of Conta A 3/3 Mgen 1/ Ppin 1	iners Anal	Pumpin in GPM 0.0 11 yses Geo / VC DRO / C	9 Rate 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7-	Depth of Equip. in Feet 40 (42.9) N Preserv. HCI HOO 3 HNO 3	Filter 	Total nu Duplica Field B Rinsea	Yes casing volumes Disposal Method/ Drum / V.O umber of Bottles ate Sample I.D. lank I.D.	No X Volume 6AC
2	Comment Purge Sample) Samplin Bottle Typ 40 _{mL} VC 500 mL 500 mL 250 mL 250 mL 250 mL 250 mL 250 mL	S: Method SS Sull UN g Data g Data	iners Anal	Pumpin in GPM 0.0 11 yses Geo / VC DRO / C	9 Rate 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7- 7-	Depth of Equip. in Feet 40 (42.9) N Preserv. H_{C1} H_{NO3} H_{NO3} 7	Filter	nils dry? At no. of ¢ arge Water D &	Yes casing volumes Disposal Method/ DRUM / V.O umber of Bottles ate Sample I.D. lank I.D. te Sample I.D. No./Material	NoX Volume <u>6ac</u> Units
2	Comment Purge Sample) Samplin Bottle Typ 40 _{mL} VC 500 mL 500 mL 250 mL 250 mL 250 mL 250 mL 250 mL	Method SS Sull g Data g	iners Anal	Pumpin in GPM 0.0 H Vses 620 / VC 020 / C 020 / C 1350 (Jeb	g Rate 7- PC 5 PATH 5 min S Meta US	Depth of Equip. in Feet 40 (42.9) Preserv. HC1 	Filter 	nils dry? At no. of o arge Water D arge Water D arge Water D arge Water D arge Water D arge Water Total nu Duplica Field B Rinsea ard/Serial I .C. meter	Yes casing volumes Disposal Method/ <u>DRUM / V.O</u> umber of Bottles ate Sample I.D. lank I.D. te Sample I.D. te Sample I.D.	No X Volume 6AC

HARTCROWSER Groundwater Sampling Data - Well I.D. HMW-20IA

			C. (for new we		5							
	PROJECT	M	MB				DATE	E/TIME SAM	IPLED 9	18/2020	1028	
	JOB NO.	1	942904				TIDA	LLY INFLUE	NCED	YES'	NO	K
	PROJECT N	ANAGER		DAGEL			WELL	DEPTH IN	FEET	51		
	FIELD REP	s	B	LYTLE			SCRE		ERVAL IN FI	eet <u>4/</u>	- 51	
1			<mark>i Measure</mark> i 5 I	ments:	All Measu	rements		-		. 7 .	2	
	WELL DEP				80 R:						· -	
			(DTS) IN FEE		4.52		-	' diam = x .1	•	4" diam = x .65		
		VVATER (DI V)	W) IN FEET		1.5 2	pin						
	(015-01)	v)	19.00	· · · · · · · · · · · · · · · · · · ·			ACT	JAL PURGE	IN GALLON	vs <u>3</u> , 5		
	Time	No. of Gallons Purged	рН	Temp in °C	Condu in <u>MS/0</u>	ct Ox	iss. ygen mg/L	Turbidity	ORP in ⊮V			overy, color, odor, umulated silt/sand
INITIAL	0958	0.1	8.32	16.0	0.656		-U	11.60	163.2	INITIALLY CLE		
	1003	1.0	7.55	16.0	0.65		58	4,71	135.3	CLEAR, NO,	NS	
	1016	2.0	7,51	16.3	0.65		51	2.89	39.9	11, 4,	. (1	
SAMPLE	1028	3.0	7.54	16.2	0.65		47	3.88	-3.5	1		
sample:	-								-	····· /	1	
р н	Comment	S: Entern	Mand Be 10		ng Rate	Depth c Equip.	of	Bo	bils dry?			No <u>X</u>
STICK VP	Purge	55 SUBR	ncesiele	0.	80		48.71	eroci		casing volumes		
+ 2.7	Sample		1.1	11		n			-	Disposal Method		
2) Samplin											
	Bottle Typ	# of Conta	iners Analy	ses		Pre	serv.	Filter	rotarn	umber of Bottles	s <u>10</u>	
	40 ME VOA	3/	3 GR	0 / VOC	.5	нс			Duplice	ate Sample I.D.		
4: (6	500 mc A		1 Pi		MIS		<u> </u>			ilank I.D.		
	250 nl P		المور ا		MALS		103	3		ite Sample I.D.		
\sim	250mlp		1	YSOLVED	MENT	> FV	NO 3	0.45 m	1	to oumple i.e.	<u></u>	
	-	uipment		1	1					No./Material		
	Pump Typ	pe/Tubing T	ype <u>5</u>	S SUB	pe -		_ ·T	emp/pH/E	.C. meter		SS PRO	
	Bailer Typ						v	Vater Leve	l Probe		TER LIN	5
	Filter Typ	e	0.45	m		_	_ 0	Other				
4)Well Co	nditions	0	кX	Not OK		Explain	1				

F

HARTCROMSER Groundwater Sampling Data - Well I.D. HAW-205

F	PROJECT	pm.	в			DATE	E/TIME SAM	PLED 9/	18/2020 1148	_
	JOB NO.	191	10904			TIDA		-	res NO K	_
F		MANAGER	M. (ABEL		WELI	DEPTH IN	FEET	35	
F		s	B. L	YTLE		SCR		ERVAL IN FE	ET 25-35	
\bigcirc	Purging I	10	l Measure	ments: .	All Measuren				087	
			(DTS) IN FEI	- 3	7.75 (810	<u>\</u>	NG VOLUM " diam = x .1			-
			W) IN FEET		.40 (BTO	<u> </u>		-	4* diam = x .653 gal/ft] NS 2, 6	
			S,		. 10 (15)0				15	
((DTS – DTV	(v)	J,			ACTU	JAL PURGE	IN GALLON	15 1+ -	
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct	Diss. Oxygen in <u>19</u> 12	Turbidity	ORP	Comments: quality, recovery, c sheen, accumulate	
AL	1122 .	0.1	8.21	16.4	0.482	4.66	24.43	198.4	INITIALLY CLEAR, SLIGHT SOU LIKE WOR, NS	LUGA
	1127	0.5	7.33	16.3	0-484	4-41	8.15	203,0	CLEAR, NO, NS	
	1135	1.0	6.80	17.0	0.482	4.40	5.30	200.4	11 11 41	
10	1148	1.5	6.64	17.3	0.482	4.32	7.82	199.7	и, и, и	
			(1.1.0	0.100		110 -	1 1 1 1 1 1 1 1 1		
1	Comment	s:	2						· · · · · · · · · · · · · · · · · · ·	
1	[Method	: 	in GPN	<u>/</u> E	epth of quip. in Feet	<u>:</u>	bils dry? At no. of c	Yes No	*
nple :	Comment	Method	S-BMBLSIBL	in GPN	1 E	1	STUC) PL	At no. of o urge Water D	asing volumes	×
1	[Method	5-BMBLSIBL	in GPN	1 E	quip. in Feet	STUC) PL	At no. of o urge Water D	asing volumes	*
aple:	Purge	Method Periode g Data	5-BMBLSIBL	in GPN	1 E	quip. in Feet	STUC) PL	At no. of o urge Water D Or Sine D	casing volumes Disposal Method/Volume $a_{M}/2, 0 GAL$	×
nple:	Purge Sample Samplin Bottle Typ	Method Period g Data # of Conta	ainers Anal	in GPN	1 Eu 5 34	Preserv.	STUC) PL	At no. of o urge Water D Or Sine D	vasing volumes Disposal Method/Volume Aum / 2, 0 GAL	*
nple:	Purge Sample Samplin Bottle Typ	Method PCC SS PCC SS PCC SS S PCC SS S PCC SS S S S S S S S S S S S S	ainers Anal	in GPN 0.0 11 11 12 13 14 15 15 15 15 15 15 15 15 15 15	1 Eu 5 34 5	guip. in Feet	E Pι STNC) Pι 	At no. of c urge Water D or Sire o. Total ni	casing volumes Disposal Method/Volume $a_{M}/2, 0 GAL$	
nple;	Purge Sample Samplin Bottle Typ 40 _{V1} (VOA Soom L Am	Method PCR STAL g Data g Data g Data g Data g Data g Data	ainers Anal Ge	in GPN 0.σ 11 /ses <u>5</u> /νος <u>6</u> / c ρ	A EI S 34 S Att S	9 in Feet 12 13/2 18 13/2 18 18 Preserv. 14 1	E Pι STNC) Pι 	At no. of o urge Water D or Size o Total n Duplica	vasing volumes Visposal Method/Volume $a_{M} / 2, \circ GAL$ umber of Bottles	
aple:	Purge Sample Samplin Bottle Typ 40 _{vn} (VOA Scom (Am 250 _{vn} (VOA	Method Person g Data g Data g Data g Data g Data	ainers Anal Ge PR	in GPN 0. σ (1 /ses (2) (2) (2) (2) (2) (2) (2) (2)	1 Eu 5 33 5 5 Att 5 Att 5	чир. in Feet	Filter	At no. of c urge Water D or Size o Total ni Duplica Field B	vasing volumes visposal Method/Volume $\mu \cdot m = 2, 0 GAL$ umber of Bottles ite Sample I.D	
aple:	Purge Sample Samplin Bottle Typ 40 _m (VOA Scom L Am 250 _m (P	Method Person g Data g Data g Data g Data g Data	ainers Anal Ge PA Ton OI	in GPN 0.σ 11 /ses <u>5</u> /νος <u>6</u> / c ρ	S S AHS MERALS	чир. in Feet (34.8 (Ргезегу. 41С [f(MD-3 HMG-3	Filter	At no. of o urge Water D or Size O Total nu Duplica Field B Rinsea	Assing volumes Disposal Method/Volume A M 2 . 0 GAL umber of Bottles the Sample I.D lank I.D te Sample I.D No./Material Units	*
	Purge Sample Samplin Bottle Typ 40yr VOA SOML AM 250 ML P Field Eq	Меthod Рек. 54 g Data g Data	ainers Anali Gr Dr Dr SS s	in GPN 0. σ 1 1 1 1 1 1 1 1 1 1 1 1 1	S S AHS MERALS	9 in Feet 2 34.8 9 134.8 9 134.8 9 14.8 9 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.2 14.8 14.3 14.8 14.3 14.8 14.3 14.8 14.3 14.8 14.3 14.8 14.3 14.8 14.3 14.8 14.3 14.8 14.3 14.8 14.3 14.8 14.3 14.3	Filter	At no. of o urge Water D or Sire o Total nu Duplica Field B Rinsea	August Sample I.D.	*
2 2	Purge Sample Samplin Bottle Typ 40yr VOA SOML AM 250 ML P Field Eq	Method Period g Data g Data	ainers Anali Gr Dr Dr SS s	in GPN 0. σ 11 11 12 12 12 12 12 12 12 12	A EU S S AT S AT S MERALS LE,	Preserv. HC HMO 3 HMO 3	Filter	At no. of c urge Water D or Sire o Total nu Duplica Field B Rinsea nd/Serial b .C. meter	Assing volumes Disposal Method/Volume A M 2 . 0 GAL umber of Bottles the Sample I.D lank I.D te Sample I.D No./Material Units	×

J:\Docs\Forms\Field & Lab\Groundwater Sampling Data Form.doc

STICK

HARTCROWSER Groundwater Sampling Data - Well I.D. HMW-21S

	(e.g., 20' N PROJECT		er of building er Megabl			DATE	E/TIME SAM	PLED	11/3/2020 1013
	JOB NO.	194	0904				LLY INFLUE		YES NO X
	PROJECT N	ANAGER	M Dag	el/M Goo	odman	WEL	L DEPTH IN	FEET	40
	FIELD REPS	s	LYTLE			SCRI		ERVAL IN F	EET 30-40
1	Purging I	Data/Field	d Measure	ments: /	All Measurer	nents Relativ	ve to Top of	Casing (TO	C)
	WELL DEPT	гн	40			CASI	NG VOLUM	E IN GALL	DNS /. 3
	DEPTH TO :	SEDIMENT	(DTS) IN FEI	- '	8,70	[2'	' diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]
	DEPTH TO	WATER (DT	W) IN FEET	-	o. 3 <i>3</i>	PUR	GE VOLUME	E IN GALLC	
	(DTS – DTW	V)	8.3	7		ACTU	JAL PURGE	IN GALLO	NS 3.0
	Time	No. of Gallons Purged	рН	Temp in °C		Diss. Oxygen in Mark	Turbidity		Comments: quality, recovery, color, odor sheen, accumulated silt/sand
AC.	0913	0.1	7.68	14.2	683	6.04	35.03	105.8	INITIACY CLOAR, NO, NS
	0937	1.0	7.70	16.0	724	1.13	20.16	107.9	CLEAR, NO, NS
	0956	2.0	7.49	15.6	713	0.99	7.29	118.6	10 , 10 H
mple:	1013	3.0	7.31	15.7	689	0.83	4.34	123.2	ι, ι, ι(
	Comments	:							
	Comments	Method		Pumpin in GPM		epth of quip. in Feet		ils dry?	Yes NoX
	Comments				E E			At no. of	casing volumes
		Method		in GPM	E E	quip. in Feet		At no. of rge Water [
(2)	Purge	Method SS SU SS SV		in GPM	E E	quip. in Feet 35		At no. of rge Water [casing volumes Disposal Method/Volume
2	Purge Sample	Method 55 50 55 50 55 50 55 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50	B		E E	quip. in Feet 35		At no. of rge Water I	casing volumes Disposal Method/Volume
2	Purge Sample Sampling	Method 5550 5550 g Data # of Conta	iners Analy		E E	quip. in Feet 35 ι(Pu 	At no. of p rge Water [<u>au Sir</u> Total n	casing volumes Disposal Method/Volume 2 DRCM / 3.5 umber of Bottles
2	Purge Sample Sampling Bottle Type	Method 5550 5550 g Data # of Conta	iners Analy	in GPM O.C N	E E	quip. in Feet 35 ι(Pu 	At no. of rge Water I ou Sur Total n Duplica	casing volumes Disposal Method/Volume 2 DR - M / 3.5 umber of Bottles ate Sample I.D
2	Purge Sample Sampling Bottle Type	Method 5550 5550 g Data # of Conta	iners Analy	in GPM O.C N	E E	quip. in Feet 35 ι(Pu 	At no. of p rge Water [<u>au Sir</u> Total n Duplica Field B	casing volumes Disposal Method/Volume 2: DR. M / 3.5 umber of Bottles ate Sample I.D lank I.D.
	Purge Sample Sampling Bottle Type 0.5 L ambe	Method SS Su SS Su Data # of Conta Pr 1	iners Analy	in GPM O.C N	E E	quip. in Feet 35 ι(Preserv.	Filter	At no. of p rge Water [<u>2 1) 5 1 7</u> Total n Duplica Field B Rinsea	casing volumes Disposal Method/Volume <u>Z DROM</u> / 3.5 umber of Bottles ate Sample I.D lank I.D te Sample I.D
3	Purge Sample Sampling Bottle Type 0.5 L ambe	Method SS SU SS SU SS SU Data # of e Conta er 1 uipment	iners Analy	/ses //PH_Dx		quip. in Feet 35 ι(Preserv. 7	Filter	At no. of r rge Water I <u>o 1, 5 r f</u> Total n Duplica Field B Rinsea d/Serial I	casing volumes Disposal Method/Volume 2 DROM/ 3.5 umber of Bottles ate Sample I.D lank I.D te Sample I.D No./Material Units
3	Purge Sample Sampling Bottle Type 0.5 L ambe	Method 5550 5550 g Data # of Conta or 1 upment e/Tubing Tr	iners Analy	in GPM O.C N		quip. in Feet 35 ι(Preserv. 7	Filter Filter	At no. of p rge Water I <u>2 11 5 1 7</u> Total n Duplica Field B Rinsea d/Serial I C. meter	casing volumes Disposal Method/Volume <u>Z DRCM / 3.5</u> umber of Bottles ate Sample I.D lank I.D te Sample I.D Mo./Material Units
3	Purge Sample Sampling Bottle Type 0.5 L ambe	Method SS Su SS Su SS Su SS Su Data a of Conta a of Conta c of c of Conta c of Conta c of Conta c of Conta c of Conta c of c	iners Analy	/ses //PH_Dx		Preserv. T T T T T T T	Filter	At no. of p rge Water I <u>2 11 5 1 7</u> Total n Duplica Field B Rinsea d/Serial I C. meter	casing volumes Disposal Method/Volume 2 DROM/ 3.5 umber of Bottles ate Sample I.D lank I.D te Sample I.D No./Material Units

HARTCROWSER Groundwater Sampling Data - Well I.D. HMW-22S

PROJECT Mercer Megablock DATETIME SAMPLED $l[J_2]$ 2020 $l142$ JOB NO. 1940904 TIDALLY INFLUENCED YES NO X PROJECT MANAGER M Dagel/M Goodman well DEPTH IN FEET 37 FIELD REPS B_1 Lq TtC SCREEND INTERVAL IN FEET 27 - 37 (1) Purging Data/Field Measurements: All Measurements: Relative to Top of Casing (TOC) Well DEPTH 37 CASING VOLUME IN GALLONS 0.6 DEPTH TO SEDIMENT (OTS) IN FEET $35, 2.0$ Casing Volume IN GALLONS 1.9 (DTS - DTW) $473, 9$ ACTUAL PURGE IN GALLONS 1.9 (DTS - DTW) $473, 9$ ACTUAL PURGE IN GALLONS 2.0 (DTS - DTW) $473, 9$ ACTUAL PURGE IN GALLONS 1.9 (DTS - DTW) $473, 9$ ACTUAL PURGE IN GALLONS 2.0 (DTS - DTW) $473, 9$ ACTUAL PURGE IN GALLONS 1.9 (DTS - DTW) $743, 9$ ACTUAL PURGE IN GALLONS 1.9 (DTS - DTW) $743, 9$ $ACTUAL PURGE IN GALLONS 1.9 (DTS - DTW) 753, 9, 743, 9, 9, 15, 23, 10.0, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1$		(e.g., 20' N	W of E corn	C. (for new we	A)									
Depth to the temperature of the sector manager of the se		PROJECT	Merc	er Megabl	ock		DATE	_		11/3/2020	12			
No.201 Microsoft Screened interval in Feet $27-37$ 1 Purging Data/Field Measurements: All Measurements Relative to Top of Gasing (TOC) Well DepTH 37 CASING VOLUME IN GALLONS 0.6 DEPTH TO SEDIMENT (DTS) IN FEET $35, 2.0$ [2" diam = x. 163 gal/ft] $4"$ diam = x. 663 gal/ft] DEPTH TO WATER (DTW) IN FEET $31, 30$ PURGE VOLUME IN GALLONS 1.9 (DTS - DTW) $4"$ $3, 9$ ACTUAL PURGE IN GALLONS 2.0 Imme Purged pH in "C" $in y 2/6"$ in $y 2/6"$		JOB NO.	194					LY INFLUE	ENCED		NO	<u> X </u>		
1 Purging Data/Field Measurements: All Measurements Relative to Top of Casing (TOC) WELL DEPTH 37 DEPTH TO SEDIMENT (DTS) IN FEET 35, 2.0 [2" diam = x. 163 gal/R 4" diam = x. 653 gal/R] DEPTH TO WATER (DTW) IN FEET 31, 30 PURGE VOLUME IN GALLONS 1.9 (DTS - DTW) 43, 9 Actual PURGE IN GALLONS 1.9 (DTS - DTW) Temp Conduct Oxygen, Implet Note Comments: quality, recovery, color, on sheen, accumulated sitts 11/2 0.1 7.6, 9 14/5 6.98 7.0 2 21.36 94, 6 INVINTALY CLEARL, NO, NS 11/2 1.0 6.75 15.9 7.6 19.2 10.1 clearL, NO, NS 11/2 1.0 6.75 15.9 7.6 3.9 15.2 10.1 clearL, NO, NS 11/2 2.0 6.67 14.0 7.5 0.59 3.4/4 114.3 11 11 Comments: 11/4 2.0 6.67 32.5 10.5 32.5 10.5 11.0 11.0 11.0 11.0 11.0 11.0 11.0 <td></td> <td>PROJECT M</td> <td>IANAGER</td> <td>M Dag</td> <td>el/M Goo</td> <td>dman</td> <td></td> <td></td> <td>-</td> <td colspan="2"></td> <td></td>		PROJECT M	IANAGER	M Dag	el/M Goo	dman			-					
WELL DEPTH 37 CASING VOLUME IN GALLONS 0.6 DEPTH TO SEDIMENT (DTS) IN FEET $35, 2.0$ [2° diam = x. 163 gal/fl. 4° diam = x. 653 gal/fl.] DEPTH TO WATER (DTW) IN FEET $31, 20$ PURGE VOLUME IN GALLONS 1.9 (DTS - DTW) 41.6 Temp Conduct Organ Diss. 2.0 Time Purge pH in *C in *D/26* in *B/21 Turbidity in AC Comments: quality, recovery, color, osen accumulated sitis 102 0.1 $7.6.9$ 14.5 6.98 $7.0.2$ 27.36 94.6 1.9 Sehen, accumulated sitis 102 0.1 $7.6.9$ 14.5 6.98 $7.0.2$ 27.36 94.6 $1.9.7$ Sehen, accumulated sitis Intra 1.0 $6.75.5$ 15.9 76.3 0.99 15.23 110.1 $ccase, N0, NS$ Intra 1.0 6.95 32.5 114.2 $1.0.7$ $N0. X$ $A \text{ tro. of casing volumes}$ $N0 X$ An o. of casing volumes $N0 X$ $A \text{ tro. of casing volumes}$ $N0 X$ $A \text{ tro. of casing volumes}$ $N0 X$ $A tro. of casing volum$		FIELD REPS	s	BYTTE			SCRE	ENED INTE	ERVAL IN F	EET <u>77</u>	37			
DEPTH TO SEDIMENT (DTS) IN FEET 35, 2.0 [2' diam = x.163 gal/ft] 4' diam = x.653 gal/ft] DEPTH TO WATER (DTW) IN FEET 31, 30 PURGE VOLUME IN GALLONS 1.9 (DTS - DTW)	1	Purging L	Data/Field	d Measure	ments: /	All Measuren	nents Relativ	e to Top of	Casing (TOC)				
DEPTH TO WATER (DTW) IN FEET 31.30 PURGE VOLUME IN GALLONS 1.9 (DTS - DTW) 41.3,9 ACTUAL PURGE IN GALLONS 2.0 AL No. of Galons Temp Purge Conduct (Dxyser) ORP (Dxyser) Comments: quality, recovery, color, o sheen, accumulated sitts AL No. of In C In M2/C No. of Purge Comments: quality, recovery, color, o sheen, accumulated sitts In O 0.75 15.9 76.0 21.36 94.6 INTTALY CLEAL, NO, NS In 21 1.0 6.75 15.9 76.3 0.99 15.23 110.1 CLEAL, NO, NS In 21 1.0 6.75 15.9 76.1 0.59 3.44 114.3 11 11 Comments: In GPM Equip, in Feet S.555 No X At no. of casing volumes No X Purge 55 55.06 0.05 32.5 Purge No X (2) Sampling Data Total number of Bottles 1 Duplicate Sample I.D. In In (3) Field Equipment Total number of Bottles 1 Total number of B		WELL DEPT	ЪН	37			CASI	NG VOLUM	IE IN GALLC	ons 0.6				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		DEPTH TO	SEDIMENT	(DTS) IN FE		-	[2"	diam = x .1	l63 gal/ft					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		DEPTH TO	WATER (DT	W) IN FEET			PURG	SE VOLUM	E IN GALLO					
Time Gattons pH Temp Conduct Oxygen, in μ ?/ Turbidity ORP Comments: quality, recovery, color. osheen, accumulated sit/s I/02 0.1 7.69 I/45 698 7.02 29.36 94.6 INVTATUY CLEAR, NO, NS I/121 I.0 6.75 IS.9 7.63 0.99 IS.23 IID.1 CLEAR, NO, NS IV21 I.0 6.75 IS.9 7.63 0.99 IS.23 IID.1 CLEAR, NO, NS Introduction III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		(DTS – DTV	/)		43	3,9	ACTL	IAL PURGE	IN GALLON	ns Z	.0			
Al. 1102 0.1 7.6 1145 698 7.0 2 29.36 94.6 INVTATUR CLEAR, NO, NS II21 1.0 6.75 15.9 76.3 0.99 15.23 110.1 ccare, NO, NS imple: 1142 2.0 6.75 15.9 75.1 0.59 3.44 114.3 11 11 Comments:		Time	Gallons	рН		Conduct	Oxygen	Turbidity						
Itz 1 I.O 6.75 IS.9 H_{c} 3 0.99 IS.23 IIO.1 clcare, NO, NS mple: II42 2.0 6.67 Iv.0 751 0.59 3.44 II4.3 Iv.0, NS Comments: Method Pumping Rate Depth of Equip. in Feet Sample IV IV IV IV No X At no. of casing volumes Sample IV IV IV IV IV IV IV Comments: Boils dry? Yes No X At no. of casing volumes Purge Water Disposal Method/Volume Over Model IV	4L		_				~							
Imple. Integrate Pumping Rate Depth of Imple Imple </td <td></td> <td>1121</td> <td></td> <td><u> </u></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		1121		<u> </u>		1								
Imple. International and the second seco														
Method Pumping Rate Depth of Purge 55 5UB 0.05 32.5 Sample 11 11 Purge Water Disposal Method/Volume Image: Sold Sample 11 11 Purge Water Disposal Method/Volume Image: Sold Sample 11 11 Purge Water Disposal Method/Volume Image: Sold Sample 11 11 Purge Water Disposal Method/Volume Image: Sold Sample 11 11 Purge Water Disposal Method/Volume Image: Sold Sample 11 11 Purge Water Disposal Method/Volume Image: Sold Sample 11 11 Purge Water Disposal Method/Volume Image: Sold Sample Sample Incomparison 1 Purge Vision 2.0 Image: Sold Sample Sample Incomparison 1 Purge Vision 1 Image: Sold Sample Incomparison 1 Purge Vision 1 Image: Sold Sample Incomparison 1 Purge Vision 1 Image: Sold Sample Incomparison 1 1 1 Image: Sold Sample Incomparison 1 1 1 Image: Sold Sample Incomparison 1 1 1	mple:	1142	2.0	6.67	16.0	751	0.59	3. <i>4</i> 4	114.3		, 11			
Method in GPM Equip. in Feet Purge 55 50B 0.05 32.5 Sample 11 11 11 11 11 11 11 2 Sampling Data 51 TF 04 0M /2.0 2 Sampling Data Total number of Bottles 1 11 11 11 11 11 2 Sampling Data Total number of Bottles 1 1 TPH_Dx Image: Simple 1.0 Field Blank 1.0. 1 TPH_Dx Image: Simple 1.0 Field Blank 1.0. 3 Field Equipment Type/Brand/Serial No./Material Units Pump Type/Tubing Type SS SUB / PE Temp/pH/E.C. meter YS1 DSS PHO Bailer Type Water Level Probe WATER LINE		Comments	:											
Purge 55 50B 0.05 32.5 Sample 11 11 11 2 Sampling Data 0 st stre pa vm / 2.0 2 Sampling Data Total number of Bottles 1 Bottle Type for Analyses Preserv. Filter 0.5 L amber 1 TPH_Dx Duplicate Sample I.D.			Method									No <u>K</u>		
Sample II II Preserv. Filter 2 Sampling Data Total number of Bottles 1 Bottle Type Containers Analyses Preserv. Filter 0.5 L amber 1 TPH_Dx Duplicate Sample I.D. Bottle Type Simple Field Blank I.D. Field Blank I.D. Rinseate Sample I.D. Type/Brand/Serial No./Material Units 3 Field Equipment Type/Brand/Serial No./Material Units Pump Type/Tubing Type SS SUB / PE Temp/pH/E.C. meter MSI DSS PILO Water Level Probe WATTER LINE		Purge	55 50	ıВ	0.	05	32.5	P						
Bottle Type # of Containers Analyses Preserv. Filter 0.5 L amber 1 TPH_Dx Image: Containers Duplicate Sample I.D. Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers 0.5 L amber 1 TPH_Dx Image: Containers Image: Containers Image: Containers Image: Containers 1 TPH_Dx Image: Containers Image: Containers Image: Containers Image: Containers 1 TPH_Dx Image: Containers Image: Containers Image: Containers Image: Containers 1 TPH_Dx Image: Containers Image: Containers Image: Containers Image: Containers 1 TPH_Dx Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers Image: Containers		Sample	11		ι	۱	11					.0		
0.5 L amber 1 TPH_Dx Duplicate Sample I.D. Image: Solution of the state of th	2		# of	hiners Anal	1/6.65		Present	Filter	Total n	umber of Bottle	s	1		
Image: Second											_			
3 Field Equipment Rinseate Sample I.D. 3 Field Equipment Type/Brand/Serial No./Material Units Pump Type/Tubing Type SS SUB / PE Temp/pH/E.C. meter Bailer Type Water Level Probe WATER UNK							<u> </u>	<u> </u>		-	-	Measurhoutegy Soleman Anders		
Image: Solution of the second seco	2										<u></u>	Managaran (m. 1966) saya		
Pump Type/Tubing Type SS SUB / PE Temp/pH/E.C. meter 451 DSS PAO Bailer Type Water Level Probe WATER UNK									Rinsea	ite Sample I.D.				
Bailer Type Water Level Probe WATCR LINE	3	Field Equ	uipment				7	ype/Brai	nd/Serial	No./Materia	l Units			
Bailer Type Water Level Probe WATCR UNK	\sim	Pump Tvp	Pump Type/Tubing Type Ss SUB / PE					emp/pH/E	.C. meter	451	055	PRO		
		P - JP	-	· · · · · · · · · · · · · · · · · · ·		V 1000 10/100				61	ATER	UNE		
		Bailer Tvo	e	-										

HARTCROWSER Groundwater Sampling Data - Well I.D. MBB-16

		ATION DES IW of E cori			60 E (DF HMW.	HAW- 3IA, 20'S of SOPENNE MONE Roy ST.				
	PROJECT		- MEGAR	•			E/TIME SAM		9/3/2020 0857		
	JOB NO.		940904				ALLY INFLU		, , , , , , , , , , , , , , , , , , , ,		
	PROJECT I				·		L DEPTH IN		YES NO		
	FIELD REP					·					
\bigcirc							SCREENED INTERVAL IN FEET 30 - 40				
	Purging	Data/Fiel	d Measu	rements:	All Measur	ements Relat	ive to Top of	Casing (TC	DC)		
	WELL DEP	ТН	40'			CAS	CASING VOLUME IN GALLONS				
	DEPTH TO	SEDIMENT	(DTS) IN F	EET	39.95	[2	2" diam = x .	163 gal/ft	4" diam = x .653 gal/ft]		
	DEPTH TO	WATER (D	TW) IN FEE		9.45'		GE VOLUM				
	(DTS - DTV	V) _	10.5								
		No. of Gallons		Temp	Conduc	Diss. t Oxygen		ORP			
	Time	Purged	рН	in °C	in mS/c		Turbidity		Comments: quality, recovery, color, odor, sheen, accumulated silt/sand		
INITIAL	0814	0.1	7,89	18.0	0.563	4.65	114.95	159-1	INITIALLY SUMME GAMY TURBIDITY, ND, NS		
	0826	0.5	7.21	17.9	0.559	4.68	62.11	120,2	SUCHT GAM TULBIDITY, NO, NS		
	0840	1.0	7.04	17.9	0.560	4.20	21.89	101.7	CLEAR, NO, NS		
				<u> </u>							
sample:	0857	1.5	6.99	18.0	0-562	3.88	20.40	88.3	CLEME, ND, NS		
		Method		Pumpii in GPN		Depth of Equip. in Feet	- I	oils dry?	Yes No		
	Purge	PERISNALTI	د	0,0	53	35'					
	Sample	k		U.		[(DRUM	Disposal Method/Volume		
2	Sampling										
	Bottle Type	# of Conta	iners Ana	alyses		Preserv.	Filter	Total n	number of Bottles		
500 ml Amben	+L-AMBOR	- 1	2 P	СВ		-					
8	40 mL VOY	+ 3/	<u>3 GI</u>	to /vocs	\$	HC1	~		ate Sample I.D.		
	500mL AN			DRO / C	PAHS			Field B	Blank I.D.		
	250 m L F			The METHIC		HNO3		Rinsea	ate Sample I.D.		
3	το μι Field Equ		0	SSOLVOO M	ionals	HND3 T	0.45 µm ype/Bran	d/Serial I	No./Material Units		
	Pump Type	e/Tubing T	ype Peris	ITALTIC PE	<u> </u>	т.	emp/pH/E.	C. meter	YSI DSS PRO		
	Bailer Type)					/ater Level		WATER LINE		
	Filter Type		.45 µr	n			ther				
	Well Con	alifia		ок 📈	-						

HARTCROWSER Groundwater Sampling Data - Well I.D. MBB - 24

	PROJECT	Me	alon Me	SABLOCK		DAT	E/TIME SAM	IPLED	9/10/2020	08	40	
L.	JOB NO.		40904			TIDA		NCED	YES	NO	X	_
	PROJECT N	IANAGER	M. (ABEL		WEL		FEET	40 '			<u> </u>
	FIELD REPS	s	B. LYT	ιe		SCR	SCREENED INTERVAL IN FEET 30-40 '					
1	Purging L	Data/Field	d Measure	ements:	All Measur	ements Relati	nts Relative to Top of Casing (TOC)					
	WELL DEPT	н	40`						ons 1.83	ns 1.83		
	DEPTH TO S	SEDIMENT	(DTS) IN FE		»'	[2	" diam = x .1	63 gal/ft	4" diam = x .653	gal/ft]		
	DEPTH TO WATER (DTW) IN FEET			28	.80	PUR	GE VOLUME	E IN GALLC	DNS5.	5		
	(DTS – DTW	n <u>I</u> I	.10			ACT	UAL PURGE	IN GALLO				
	Time	No. of Gallons Purged	рН	Temp in °C	Conduction		Teller	ORP	Comments: qu			
	0800		9.16				Turbidity 515.98	in_m	INITALLY IFAN	ieen, acc	wmulat	ed silt/sai
5	0805	0.1	8.09	<u>16.8</u> 16.7	0.795		210.39	153,9	NE VERY NABID, 61	LAY TAB	301512	NS.
	0810	1.0	7.61		0.782			·	MODELATE PE-	HULEUM	-LIKE BEEM	NAALA
	0,0	1.0	7.61	16.8	0.102	5.42	105.61	114.0	NODERATE TURE NS, SLILLE	IT PEN	lose um	- une
	0820	1.5	7.33	17.1	0.788	5 2.85	22 51	508	CLEAR, NO, N	5		
ple :	082.0 Comments	1.5 : 0810 1	7.33 PCLIREMSED F4	17.1	0.788	3 2,85	33.51 PIOLY,	58.8	CERA, NO, N			
ple :	Comments	. Ogio I Method	PLIREMSED FL	Pumpir in GPM	ng Rate	Pepth of Equip. in Feet	PIOLY, Bo	ils dry?	· · ·	on G		8
ple:		. Ogio I Method			ng Rate	Theophen AA Depth of Equip. in Feet	ו שני	ils dry? At no. of	(entinued	ON G		K
	Comments Purge Sample	Method 55 51B1	PLIREMSED FL	Pumpir in GPM	ng Rate	Pepth of Equip. in Feet	βιώμη, Bo	ils dry? At no. of	Yes Casing volumes Disposal Method/V	ON G		<u></u>
2	Comments	$\frac{\text{Method}}{55 5 \sqrt{6}}$ $\frac{55 5 \sqrt{6}}{14}$ $\frac{7}{14}$ $\frac{7}{16}$	0(1.764500 F4 0(1.764500 F4 10(1.751816 10(1.51816) 10(1.51816)	yses 0 / v 0 c's $0 / c \rho$ 0 / s 0 c's	AH'S MORLS	Preserv. HCA HWO2	Filter	ils dry? At no. of Inge Water I Y S m≠ C Total n Duplica Field B Rinsea	Yes casing volumes Disposal Method/V	0N G		×
2	Comments Purge Sample Sampling Bottle Type V D A - 4 500m & Am 250m C Ac 250m C Ac	Method 55 5161 4 55 5161 4 55 5161 4 55 5161 4 5 5 5 6 6 6 6 6 1 / 1 5 7 6 6 1 / 1 5 7 6 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1	рилемзею FA M (25 181 6 iners Anal 3 GR По 555 50	Pumpir in GPN D.01 1(yses 0 / vOc's 0 / c P m MetricsibleBriensible	AH'S MORLS	Preserv. HC1 H/W32 H/W32 T	Filter	ils dry? At no. of rge Water I Y S rr≠ C Total n Duplica Field B Rinsea d/Serial f C. meter	Yes casing volumes Disposal Method/V Dig CM_S	0N G /olume 10 /nits	No	

	0820	1.5	7.33	17.1	0.788	2.85	33,51	58.8	
SAMPLE	Time 0828 0834 0840	64L 2.0 2.5 3.0	7.15 7.12	Tenp °C 16.9 16.7 16.9	Caro 0.786 0.785 0.787	00 2.40 2.08 1.98	TURBIDITY 14.10 8.91 8.13	029 26.5 10.6 -4.0	COMMENTS CLEAR, SLIGHT PETROLEMI-LILLE ODOL NS CLEAR, SLIGHT PETROLEMI-LILLE ODOR, NS DECLEMISTO FLOW ANTE SLIGHTIM. CLEAR, SLIGHT PETROLEMI-LILLE ODOR, NS



SIDEWAUK, NO CALNER OF MEDICER AVE/ DEVICER AVE, SEATTLE, WIN

(e.g., 20' NW or	f E corne	er of building A)					
PROJECT	Merce	er Megablock	DATE/TIME SAMPLED	10	31/2020		
JOB NO. 1940904		TIDALLY INFLUENCED	YES		NO	ĸ	
PROJECT MAN	AGER	M Dagel/M Goodman	WELL DEPTH IN FEET		40		с. Г
FIELD REPS		Виль	 SCREENED INTERVAL IN F	EET -	30-1	t <u>y</u>	

Purging Data/Field Measurements: All Measurements Relative to Top of Casing (TOC) 1

WELL LOCATION DESC. (for new wells)

	WELL DEPT	гн	40			CASI	NG VOLUM	E IN GALLO	ons 1.2
	DEPTH TO	SEDIMENT	(DTS) IN FE	ЕТ <u>40</u>	0.20	[2'	' diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]
	DEPTH TO	WATER (DT	W) IN FEET	. <u> </u>	32.73		GE VOLUME	E IN GALLO	NS <u>3.6</u>
	(DTS – DTV	/)	7.	47		ACTU		IN GALLON	is <u>4</u> ,0
	·				(RL)			.34,76	
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct	Diss. Oxygen in _⁰∕⊱	Turbidity		Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
TAL	0936	0.1	7.49	14.9	0.590	93.852	15.8		INITIALY SLIGHT BROWN WABID ITY, NO, NS
	1034	1.0	8.53	17.7	0.503	8.25	19.00	43.6	CLEAR, NO, NS
	1055	2.0	8.45	17.6	0.501	7.39	14.48	- 5.9	clent, NO, NS
	1117	3.0	7.94	17.5	0.480	6.38	14.10	-38.5	CLEAR, NO, NS
sample:	1138	4.0	7.48	17.6	0.455	4.91	6.99	-60.0	P W M

Comments: TABIONY Serson Mar agencian IN INITIAL READINGS, 140 TO GET OTHER 751 MOM OFFICE. WIT READINGS WERE DIFFLIENT (00, 1 COND) SAMAING WONT STATLE D.O. PER Benner me no. M. GODDMAN.

	Method	Pumping Rate in GPM	Depth of Equip. in Feet
Purge	55 SUB	0.05	35
Sample	и	ł c	11

Boils dry?	Yes	No	<u> </u>
At no of	casing volumes	Anna	

1

Purge Water Disposal Method/Volume ON SITE DRUM 4.0

Total number of Bottles

Duplicate Sample I.D. Field Blank I.D.

Sampling Data 2

Bottle Type	# of Containers	Analyses	Preserv.	Filter
0.5 L amber	1	cPAHs		

Rinseate Sample I.D.

³) Field Equipment		Type/Brand/Serial No.	/Material Units
Pump Type/Tubing Type	55 50B / PE	Temp/pH/E.C. meter	YSI DSS PLD
Bailer Type 🐘 🔤		Water Level Probe	WATER LINE
Filter Type	standarder njelverget gelegen gelefenden. Prokumentergend volmen der gemeiningen der in standarder der verbergende volmen der gemeiningen der volmen der sollte standarder der verbergende volmen der sollte standarder volmen der sollte standarder volmen der sollte standarder volmen der so	Other	
4 Well Conditions	OK 📐 Not OK 🗌 Ex	plain	

INITAL



SIDEWALK, MERCER AVE / DEKTERANE (NE CORNER), SEATTLE

(e.g., 20' <i>NW</i> PROJECT	of E corner of building A) Mercer Megablock	DATE/TIME SAMPLED	10/30/20	1410	
JOB NO.	1940904	TIDALLY INFLUENCED	YES	NO	K
PROJECT MA	NAGER M Dagel/M Goodman	WELL DEPTH IN FEET	40		
FIELD REPS	BLYTLE	SCREENED INTERVAL IN		30-40	
	•				

1) Purging Data/Field Measurements: All Measurements Relative to Top of Casing (TOC)

WELL LOCATION DESC. (for new wells)

WELL DEPTH 40		CASING VOLUME IN GALLONS /. 2	
DEPTH TO SEDIMENT (DTS) IN FEET	40.10	[2" diam = x .163 gal/ft 4" diam = x .653 gal/ft]	
DEPTH TO WATER (DTW) IN FEET	32.96 BMC	PURGE VOLUME IN GALLONS 3.6	
(DTS - DTW) 7.14	· · ·	ACTUAL PURGE IN GALLONS 3.75	

INITIAL

	Time	No. of Gallons Purged	рH	` Temp in °C	Conduct in <u>אל כיי</u>	Diss. Oxygen in <u>*</u> ∕ø	3o ∧1∪ Turbidity		Comments: quality, recovery, color, odor, sheén, accumulated silt/sand
JARIN	1248	0.(660 7.HI	16,7	733	80.7	149.0	31.5	SCIENTLY 6641 TURBIE, NO, NS INITIALLY
	1314	1.0	6,95	17.2	740	60.1	20.44	-10.3	CLEAR, NO, NS
	1333	2.0	6.91	17.0	734	45,9	7,36	-28.2	N N N
	1355	3. D	6,98	17.8	742	40.6	7,20	-43.4	N, N, N
sample:	1410	3.75	6.98	17,7	739	34.6	8.14	-51.7	н, ц, ц

PUITE SMALLE AT 3 CASING VOL'S Comments: 451 DALY SHOWED DO AS 010, NOT (mg/L). 1410 DO NOT SAMPLING ANY WAY PER M. bassman.

	Method	Pumping Rate in GPM	Depth of Equip. in Feet
Purge	55 5-B	0.05	36
Sample	55 SUB	ц	н

Boils dry?	Yes	 No	×
At no. o	f casing volumes _	 	
	Disposal Method/	4.0	

Sampling Data 2

Bottle Type	# of Containers	Analyses		Preserv.	Filter
Botao Typo	oomamoro	7 11 101 9 0 0 0			1 1101
0.5 L amber	1	cPAHs			
			-		
			×		

Duplicate Sample I.D.	
Field Blank I.D.	
Rinseate Sample I.D.	

Field Equipment 3

Type/Brand/Serial No./Material Units

Total number of Bottles

Pump Type/Tubing Type	55 SUB/PE	Temp/pH/E.C. meter	451 PRO DSS
Bailer Type		Water Level Probe	WATER LINE
Filter Type		Other	
4 Well Conditions	ОК 🔀 Not ОК 🗌	Explain	

	WELL LOCA (e.g., 20' N PROJECT		-		×	DATE	E/TIME SAM	IPLED _	11/10/20) 1	145	
	JOB NO. PROJECT N	140	1040	bracel		· · · · · · · · · · · · · · · · · · ·			/ES	_ NO	<u> </u>	
	FIELD REPS	the ba	$\frac{\sqrt{1}}{\sqrt{2}}$	2 + 1	Benn				<u>50</u> ет <u>39</u> <i>€</i>	6-49	.81	
$\widehat{1}$		<u> </u>	ld Measu	urements: .							0	
Ú		,										5
	WELL DEPT								47.7	2		
	DEPTH TO				(A)	12 @\05#URI			4" diam = x .65	os gai/πj		
	(DTS – DTW									5		
_	[]	No. of				Diss.						1
W		Gallons		Temp	Conduct	Oxygen	-	ORP			overy, color, odo	
, 91		Purged	PH 4.14	in °C 15.9	in <u>494</u>	n <u>hgl</u>	Turbidity	-1242	«1 11	15 6 I B	umulated silt/san	
94	1114	10.5	7.13	· / ····	659	0.43		-132 0	cleares	\sim	9101010,1	Δp
47	1121	10.75		1 16.1	663	0.38	10.9	-135,56	+	-1-11	ear NS	\neg
.99	1124	mA	7.1	4 16.1	665	0.35	1011	-139.6	LL		1.	-
sample:	1127	~1.	57.1	2 16.1	665	0.30		-143,3	clea	T.NS		
	Comments		1130	: PES	Lamo	hore	Fim	7				
	Commenta	,	1145	- H/	GR.M	DIAC	+IN	le:-	FUTDIA	itu -	3.14	
										<u> </u>		ċ
		Method		in GPN	-	epth of quip. in Feet		oils dry? At no of c	Yes asing volumes		No	
	Purge	45 bla	ddes	900ml	Imin	~34,81	Pi		isposal Method			
	Sample	1	ι ₍	$\sim V$	1	5			<u>an si</u>	te	(PES)	_
\frown											,	-
(2) Sampling	g Data					-					_
	Bottle Typ	# of		nalyses		Preserv.	Filter	Total n	umber of Bottle	s <u>7</u>		
	VOA			widiyses		Fleselv.	1 nter					
	amba	7	1						te Sample I.D. ank I.D.		and the state of the sec.	
									e Sample I.D.			
\sim								Tansea	e oumpie a.b.			
3	Field Equ	uipment				7	ype/Brai	nd/Serial I	No./Material	Units		
	Pump Typ	e/Tubina	Type 4	5 bladder	HIVTOS	and and	emp/pH/E	C. meter	VST	Pro +	and 200	P+
	Bailer Typ			/ Volcson		1 V	Vater Leve		Salin	<t< td=""><td>CC/1-V-1-</td><td><u> </u></td></t<>	CC/1-V-1-	<u> </u>
	Filter Type					-	Valer Leve	TTODE				_

7

HARTCROWSER Groundwater Sampling Data - Well I.D. <u>MW-14</u>구

	WELL LOCATION DESC. (for new (e.g., 20' NW of E corner of buildin			
	PROJECT PUMP	- 04	DATE/TIME SAM	
	JOB NO. 1940904			
	PROJECT MANAGER M. V	ELE Kan Del		
\sim	FIELD REPS D. DOZIE	T + Ben (PES		ERVAL IN FEET 70-80
$\begin{pmatrix} 1 \end{pmatrix}$) Purging Data/Field Measur	ements: All Measurement	ts Relative to Top of	Casing (TOC)
	WELL DEPTH 1 50,4			IE IN GALLONS
	DEPTH TO SEDIMENT (DTS) IN F	eet <u>-90</u>	[2" diam = x .1	63 gal/ft 4" diam = x .653 gal/ft]
	DEPTH TO WATER (DTW) IN FEE	T <u>29:63</u>		E IN GALLONS
	(DTS – DTW)		_ ACTUAL PURGE	IN GALLONS <u>~] gal</u>
W	No. of Gallons Time Purged pH		Diss. Dxygen Mall Turbidity	ORP Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
.101	0844 1.0.25 7.17		123	-104.9 initially turbid brown, NS
5.37	0849 n 7.16	13.6 785 1	-61	-124.5 TUT Did, NS
0.59	0854 17.16	13.6 790 1	.04	-130.4 "
	0859 10.5 7.16	13.5 790 0	.49	-133.9 11 11
sample	10910 11 7.15	13.9 799 0	.96 693	-130.5 turbid, brown
31	Comments: LC	TRIRISE SI	Strall an	uer notes
	- PUNP STOPPED WOR	Fing lost seal		
	Method	Pumping Rate Depth in GPM Equip		oils dry? Yes No
	(1) HI NOT	50 mL min \$	in Feet	At no. of casing volumes
		11	Pi h	urge Water Disposal Method/Volume
	Sample			TOTE OF I SITC(IED)
2) Sampling Data			
\bigcirc	/ # of			Total number of Bottles
	Bottle Type Containers An	alyses P	reserv. Filter	
	VOA 6			Duplicate Sample I.D.
	Amber 1			Field Blank I.D.
				Rinseate Sample I.D.
(3) Field Equipment		ı ype/Brar	nd/Serial No./Material Units
	Pump Type/Tubing Type 55	bledder pum	P Temp/pH/E	.C. meter KST Pro + and 21009 tril
	Bailer Type		Water Leve	
			Other	
	Filter Type			

29.16

DTW	Time	gal. proget	PH	Temp	Cond.	DO Mg/L	Turb	ORP]	Comments
31.30'	29195		7.16	13.7	7-87	0.70	576-	-134,9	HUTDIA, NS
31.57	0920	Lį	7.16	13.7	7.90	0.64	442	-137,3	
31.74	0425	21	7.16	13.6	793	0.61	370	-139.3	turbid, NS
31.95	0931	tx	7.16	Bit	7-89	0.56	3172 211	-141.2	turbid, NS
	0936	4	7.6	13.5	7-89	0.54	194	-141.7	turbid, NS
32.21	0941	21.0	7.16	13,4	790	0.54	132	-143.0	tutoiz, 10
	0946	Lι	7.16	13.8	790	0.52	80.3	-144.0	vi li
	1003						41.3		
	11015	1.00	6D				24.4		
	1	t							

#0950 - PES to start sampling. They need turbidity to be obser, 100 NTU, so hell fill this containers first, then the turbidity will be lower when I sample after PES. 1015-sample time

	HART				1	- Co	Samp	iing D		/ell I.D. <u>MBB-</u>
		TION DESC. W of E corner		ells)	p unt	W comos			J. col	<u>.</u>
	PROJECT	Mercer I	-	•	i de la companya de la	DAT	E/TIME SAM		2121	1400
	JOB NO.	1940904						1.1.1.1	YES	NO X
	PROJECT M	ANAGER			2		L DEPTH IN		40	
	FIELD REPS	_								
		Data/Field I		monts	All Moasuro					
Ċ			ncusurc	mento, i					1 2	0
	WELL DEPT					. 5	ING VOLUM		-	
Dol T		SEDIMENT (D		ET 40.0	· · ·	· · · · · ·	" diam = x .1	-	4" diam = x .6	
D.13		VATER (DTW) IN FEET	100	.40 (2)	-).62) PUR	GE VOLUME	E IN GALLO		
0:12	(DTS – DTW) 11.6					JAL PURGE	IN GALLON	is <u>3,</u>	5
Ĺ		No. of			1	Diss.	1			
	-	Gallons		Temp	Conduct	Oxygen		ORP	Comments:	quality, recovery, color, o
	Time	Purged	pH		in <u>Pslan</u>	in <u>ann</u>	Turbidity	in	. 0	sheen, accumulated silt/s
	1310		7.63	16.5	511	2.01	13.45	-241.3	initially	dear no odol
	1324	2.15	7.49	14.3	513	1,51	10.62	-284.6		
A	1390	3.5	7.46	17.6	503	1.65	9.86	-164		
sample:	L	1			I	<u> </u>				
	Comments:	_			· · · · · · · · · · · · · · · · · · ·	<u> </u>				9
	8									
	I			Pumpin	a Rate D	epth of	Во	ils dry?	Yes 🔨	No
		Method		in GPM	-	quip. in Feet			asing volumes	
	Purge	pashi ja	MID			33	Pu		isposal Metho	
	Sample	plastic,						n diviller	isposal metho	a volume
	······	1	1							2.
	Sampling	Data								
(2)						· · · · · · · · · · · · · · · · · · ·				a
2	g	1				Preserv.	Filter	i otal nu	mber of Bottle	s
2	[# of Containe	rs Analy	Ses			N			
2	Bottle Type	# of Containe			BIEX	HCL		Dunlicat	e Sample I.D.	
2	Bottle Type	Containe	TPH	G ; WCs,		HCI	N	Duplicat		
2	Bottle Type NDA Amber	Containe 4	TPH PA			HCI ND 3	· · · ·	Field Bla		-
2	Bottle Type	Containe 4	TPH PA N	G : VOCs. H + TPH			N	Field Bla		
0	Bottle Type NDA Omber Poly	Containe 4 2 1	TPH PA N	G: VOCS, H + TPH Wtals		ND 3 ND 3	N Y N	Field Bla Rinseate	ank I.D. e Sample I.D.	Units
3	Bottle Type NDA Amber Paly Field Equi	Containe 4 2 1 1 ipment	TPH PA N	G: NOCS, H + TPH uctais uctais	D	ND 3 ND 3 T	N Y N ype/Bran	Field Bla Rinseate d/Serial N	ank ł.D. e Sample ł.D. lo./Materia l	
3	Bottle Type VDA amber paly paly	Containe 4 2 1 1 ipment	TPH PA N	G: NOCS, H + TPH uctais uctais	D	ND 3 ND 3 T	N Y N	Field Bla Rinseate d/Serial N C. meter	ank I.D. e Sample I.D. Io./Materia	I Units

Ć 200

HARTCROWSER Groundwater Sampling Data - Well I.D. <u>MBB-2</u>

			C. (for new w		np well @	MBB-2:1	IW oprner	ofsite		
	PROJECT		r Megablo			DATI	E/TIME SAM	IPI ED	313/20	/1700
	JOB NO.	19409							YES	NO X
			M. Dagel				DEPTH IN		40	
	FIELD REP		nchette						*	
\bigcirc								1.0		
(1)	Purging I		d Measure	ments:)	All Measurer	nents Relativ	e to Top of (Casing (TO		
1 /				()	Sar e S		NG VOLUM		ons <u>1.93</u>	· · · · · · · · · · · · · · · · · · ·
pr's			(DTS) IN FE		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		' diam = x .1		4" diam = x .653	. .
casing (DEPTH TO		W) IN FEET		.13 (2	BIII) PUR	GE VOLUME	E IN GALLO	NS 5.78	· · · · · · · · · · · · · · · · · · ·
= 0.62	(DTS – DTV	V)	11.8	5		ACTU	JAL PURGE	IN GALLO	NS	-
	1521 AT	No. of Gallons		Temp	Conduct	Diss. Oxygen		ORP	Comments: qu	ality, recovery, color, odor,
	Time	Purged	pH	in °C	in <u>by cm</u>	in <u>ppv</u>	Turbidity	in		een, accumulated silt/sand
	1534	0.4	7.41	15,5	632	0.86	26.31	-320	linitial= v.clea	r, Nolo, turb (30 NTV
	1559		7.39	15.7	633	0.68	28:76			
	1625	1.5	7:37	10.0	628	0.77	19.79	-304		
>	1651	2	7.36	15.10	1022	0.73	12.21	-330		
sample:										
	Comments	: -	slight	odor	when po	achaging	t hottus	, not n	oticeable in fi	ud
		Method		Pumpin in GPM	~ ,	epth of quip. in Feet	Boi	ils dry? At no of c	Yes casing volumes	No
	Purge	plashic or	NWB	0.0	4	33 9	Pu		Disposal Method/V	
	Sample		•		ia .	15			decon thick	
2	Sampling	Data								
	Dettie Tree	# of						Total nu	umber of Bottles	<u> </u>
	Bottle Type	e Contai	iners Analy	<u>'ses</u> ; VOC +1	RTFS	Preserv.	Filter			
	AMAGEN	2	PE	111 1 DV			-	Duplica	te Sample I.D.	~
	10014	1		relais		HDas		Field Bl	lank I.D.	
	N loa	(Si.	MARIS		<u>5</u> 1	Y	Rinseat	te Sample I.D.	
3	Field Equ	ipment				T	ype/Bran	d/Serial I	No./Material U	nits
	Pump Type	e/Tubina Tv	voe alasti	c "mon	soon" ").25° T	emp/pH/E.C	C. meter	VSIT	
	Bailer Type				5		ater Level		wateriv	Le
	Filter Type	('	7.45 mm	50			ther			
\sim	71 ÷									

HARTCROWSER Groundwater Sampling Data - Well I.D. <u>MBB-3</u>

JOB	DJECT 8 NO.	19409	er Megablo 04				E/TIME SAM		<u>3/4/20 / 1330</u> YES <u>NO X</u>
PRC	DJECT N	MANAGER	M. Dage	1			L DEPTH IN		40
FIEL	D REP	s <u>J. Bla</u>	nchette	з ¹		SCR	EENED INTE	ERVAL IN F	EET 32-37
) Pui	rging l	Data/Field	d Measure	ements:	All Measure	ments Relati	ive to Top of	Casing (TO	C)
WEL	L DEPT	гн 40)		5 /	CAS	ING VOLUM	E IN GALL	ons 1.79
DEP	TH TO	SEDIMENT	(DTS) IN FE		0.151	[2	?" diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]
DEP	тнто	WATER (DT	W) IN FEET	29	e 191	PUR	GE VOLUME	IN GALLO	INS 5.36
(DTS	S – DTW	n <u>()</u>	.96			ACT	UAL PURGE	IN GALLO	NS
Tim	ne	No. of Gallons Purged	рH	Temp in °C	Conduct	Diss. Oxygen in _pp^	く25vTV Turbidity	ORP	Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
09		0	7.94	12.6	672	2.19	58.20	-343	initially clear
09	147	0.5	7.68	12.7	676	0.86	6377	-335	
10	22	1	7.78	10.6	673	0.77	47.23	-336	
10	50	1.5	7.68	10.2	667	0.75	36.99	-367	
11-	24	2	7.86	13.6	670	0.50	53.60	-337	slight GOOT
	30	2.5	7.83	13.9	657	0.47	22.43	-379	
	mments	. /	Contrai	red an	i-DCK	<u>\</u>		,	
		(
		Method		Pumpin in GPM		epth of quip. in Feet		Is dry? At no. of c	Yes No _K
			ohma			35	- Pur	ge Water D	isposal Method/Volume
Pur	ge	plastic.		1		35	în	dicor	trailer
	ge nple	plastic	[- 1/					0	
San		Data	(P						2
San San	nple	Data # of		ses	• "	Preserv.	Filter	Total nu	umber of Bottles
San San Bott	nple npling tle Type	Data # of Contain	ners Analy	+ + BTE)		Preserv. HCl			umber of Bottles
San Bott	nple npling tle Type A Mole (Data # of Contain	ners Analy	+BTE		HCI	Filter	Duplica	te Sample I.D.
San Bott	nple npling the Type A Nbbe(oly	Data # of Contain	ners Analy	+ HTE) DX + Nutals (PAHS	HCI HHO3	Filter	Duplica Field Bl	te Sample I.D
Sam Sam Bott V (AM	nple npling tle Type A DA Nble(Dly Dly	Data # of Contain 4 2 1	ners Analy	+BTE	PAHS	HCI HHO3 HNO3	Filter N N V	Duplica Field Bl Rinseat	te Sample I.D.
Sam Sam Bott (A) (A) (A)	nple npling tle Type A DA Nble(Dly Dly	Data # of Contain	ners Analy	+ HTE) DX + Nutals (PAHS	HCI HHO3 HNO3	Filter N N V	Duplica Field Bl Rinseat	te Sample I.D
San Bott V (QA Field	nple npling the Type A Abbe(oly oly d Equi	Data # of Contain 4 2 1	ners Analy HMC	+ HTE) DX + Nutals (PAHS	HCI H HO3 HNO3 T	Filter N N V	Duplica Field Bl Rinseat	te Sample I.D.
San Bott VC M Pielo Pumj	nple npling the Type A Abbe(oly oly d Equi	Data # of Contain 4 2 1 (ipment	ners Analy HMC	+ HTE) DX + Nutals (PAHS	HCI H HO3 HNO3 TI	Filter N N y pe/Brance	Duplica Field Bl. Rinseat I /Serial N c. meter	te Sample I.D.

Time	Gallons	PH	Temp (C)	Conduct us/cm	DO	Turbidoty	DRP
-> 1300 Sample	3	7.82	13.8	655	0.44	16.12	-379
		(



	JOB NO. PROJECT	<u>19409</u> MANAGER		əl			ALLY INFLUI LL DEPTH IN		YES NO		
	FIELD REF	os <u>J. Bla</u>	nchette			SCF	REENED INT	ERVAL IN F	EET		
1	Purging	Data/Field	d Measur	ements:	All Measure	ments Relat	ive to Top of	Casing (TO	C)		
r	WELL DEP	10			1 c		CASING VOLUME IN GALLONS 1.27				
ing (SEDIMENT					2" diam = x .1	-	4" diam = x .653 gal/ft]		
19 (DEPTH TO	WATER (DT	1-1	_20	1.28 (27	V /	GE VOLUM		x		
05		() _()	<u> </u>			ACT	UAL PURGE	IN GALLON	vs3		
	Time	No. of Gallons Purged	рН	Temp in °C	Conduct in <u>MS/CM</u>	Diss. Oxygen in	Turbidity	ORP in <u>m√</u>	Comments: quality, recovery, color, sheen, accumulated silt		
	0924	0.5	7.40	16.2	641	0.90	39.88	-122	clear		
	0936	1	7.09	15.5	652	0.65	24.62	-232			
	0949	1.5	7.05	15.8	653	0.50	19.22	-Uele			
	1005	2	7.03	16.1	656	0.41	18.64	-294			
-sample:	10 00	2.6.	7.06	16.1	658	0.37	18.93	-279			
pie -	7 1032 Comments	3	7.02	16,1	657	0.36	19.69	-307			
	е ⁰		* POSSi	ble sli	aut /lic	nhi odo	r				
			1	Pumpin	a Pata I De	epth of					
		Method		in GPM		uip. in Feet	BOI	sdry? At no of ca	Yes No asing volumes		
	Purge	plastic	army	1/30 ;	0.03	32'	- Pur		sposal Method/Volume		
	Sample	1 11	``	4		t c			decan drailer		
\bigcirc									, 		
(2)	Sampling	Data									
	Bottle Type	# of Contain	Analu			-		Total nur	nber of Bottles		
	VIOA	<u> </u>		RTEX/	Gr	HCI	Filter				
	poly	1	Me	1.1.	stal	HNO3	N		Sample I.D.		
	poly	1			55	HDz	Y	Field Bla			
	dimber	12	DAR	HI+T	24	-	N	Rinseate	Sample I.D.		
0	Field Equi	pment				Ту	pe/Brand	Serial No	o./Material Units		
3		Tubine Tur	olr	tic					101		
\bigcirc	D		e Mas	()		Te	mp/pH/E.C.	meter	YSI PRODE		
\smile	Pump Type/ Bailer Type	rubing ryp					ater Level P		110111		

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			SC. (for new v		mpurer	Lot N	IBBS 1	N-rentr	al sile				
	PROJECT		ner of building er Megablo			DA	TE/TIME SAI		3/5/20	/			
	JOB NO.	19409	and the second sec		2		ALLY INFLU		YES	-/ NO	X		
	PROJECT N	ANAGER	M. Dage	1			LL DEPTH IN		- 4DoC				
	FIELD REPS	^S <u>J. Bla</u>	nchette -	FB.C	20757-04	SCI	REENED INT	ERVAL IN F	EET 32-	-37'			
1	Purging L		~	ements:	All Measurem	ents Relat	ive to Top of	Casing (TO	C)				
. (WELL DEPT	н <u>4</u>	0.00		2	CAS	SING VOLUN	IE IN GALLO	ons 1.2	6			
TOC 1	DEPTH TO S	SEDIMENT	(DTS) IN FE	ет <u>40</u>	,00(30	5073)	2" diam = x .'	163 gal/ft	4" diam = x .	653 gal/ft]			
1.2, 1	DEPTH TO V	~	0 -	_31	.05/29.	85 PUE	GE VOLUM	e in gallo	NS <u>4</u>	,38	~		
	(DTS – DTW) _ 4	.95			ACT	UAL PURGE	E IN GALLON	NS				
		No. of Gallons		Temp	Conduct	Diss. Oxygen	UTU	ORP,	Comments:	quality, red	covery, color	, odor.	
	Time	Purged	pH	in °C		inppM	Turbidity	in <u>HV</u>			cumulated si		
	1225	Del	8.35	15.4	479.0	1.00	104.16	-(73,5	initio	zlly c	leave,	NO'	NS
	1230	10.5	0.55	15.5	469.20),40	99.94	-433,2	1	<u> </u>	1		
Nevre	DEE	1.0	4,55	15.9	164,41	D.74	62.00	-435,7		red@	Iggel,	tom	22 pmp
let recinis	1315	2.0	8.37	1601	167.1	0.58	29.9	-423,3	11	51 .1	- 1		Techon.
for sample: 9. few	1313	dil	8.37	10,2	168-7	0.80	10701	FUSIS	TUPBIO	ty st	Pegl		(DM)
M7n (~3)	Comments:	61. 2	used	Dak	iton .	tub	idime	19-1	-100	ing c	41 PSC	E	1 m M
1.		-	tor .	samp	le lla	st I	read	no		· · · · · · · · · · · · · · · · · · ·			
	Г			Pumping		oth of		ils dry?	Yes X		No		
		Method	MAR	in GPM		ip. in Feet	-	At no. of ca	asing volumes	-1.6	>~0.	7 (1	991)
		s pu	mp_	1 1		351 N	- Pu	rge Water Di	sposal Metho	d/Volume			9.00
51 51	Sample			1		V (Juns	ON 1ª	SITC			
2	Sampling I	Data			8 11 2								
	Bottle_Type	# of	ners Analys			-		Total nur	nber of Bottle	s <u>7</u>			
-	VOA	4	iers Analys	es		Y HU	Pilter	2					
	poly	Zi	1			YHNE			e Sample I.D.				
-	poly		L			HNO3	Y	Field Bla			-	-	
(3)	ield Equip	ment	-	÷		<u>N</u>	N Po/Prance		Sample I.D.			_	
\bigcirc			11	00		1	pe/branc	Joernal No	J./Waleriai	Units			
F	Pump Type/T	ubing Typ	be <u>5</u>	4F		Τε	mp/pH/E.C	. meter	PSI	_ D55	5		
E	Bailer Type				20	W	ater Level F	Probe	wat	sun	e		
F	ilter Type					Ot	her						
4	Vell Condi	tions	ОК	M	lot OK	Explain	WA	-	76 - 11				
*2	Docs/Forms/Fie UCIIS	ah S a cho S a cho S	bundwater Samp	CCCS ling Data Form	ade m.doc it ar	says e C	Amer 2 40	ibg:	Line s.	nd	ewat	eri	19



		ATION DES			Emp ver	A CMB	Blo; Eof	MPB5		4
	PROJECT		er Megablo	-		DA	TE/TIME SAM	MPLED	3/5/10	1333
	JOB NO.	19409	04				ALLY INFLU		YES	NO X
	PROJECT	MANAGER	M. Dage	el			LL DEPTH IN		40	
	FIELD REF	^y s <u>J.</u> Bla	nchette				REENED INT			-30
(1	Purging			ements:	All Measure	1. 10. A	tive to Top of			
0	WELL DEP	тн 40				CAS	SING VOLUM	E IN GALL	ONS 0.7	12
pof 1		SEDIMENT	A (A)		.18	[2" diam = x .1	163 gal/ft	4" diam = x .6	53 gal/ft]
sing: [WATER (DI		30	.81	PUF	RGE VOLUM	E IN GALLC	DNS 2.1	4
	(DTS – DTV	V) 43	57	100 km .		AC1	TUAL PURGE	IN GALLO	NS _ 2	
	1242 Time	No. of Gallons Purged	рН	Temp in °C	Conduct in $\frac{\mu s}{\mu m}$	Diss. Oxygen in	Turbidity	ORP in ≁∿V		quality, recovery, color, odor, sheen, accumulated silt/sand
	1250	0.25	7.44	15.1	558	42.1	0251	-30		
	1312	~1.0	7.20	16.1	510	49.4	2B.0B	24.6		<u> </u>
	1323	1.5	7.19	16.1	507	49.7	23.13	35.5		
sample ->	1333	2	7.23	15.5	507	49.3	20:37	37.9		
sample:										
5 g		Method		Pumping in GPM		epth of quip. in Feet	Boi	ls dry?	Yes	
	Purge	plastic o	ump			33.2			asing volumes	
	Sample	1	,						isposal Method/	
2	Sampling	Data # of			*			-		
	Bottle Type	2	VOC	1BTEX 1	1 Gx	Preserv. HCI	Filter		mber of Bottles e Sample I.D.	
	poly			utals (TÌ	HNDZ	W	Field Bla	and all the standard and an and an and an and	
	poly			Dx	(0)	HND2	X I		e Sample I.D.	~
3	Field Equi	ipment	·I	V×	l		ype/Brand		o./Material L	Units
F	Pump Type/	Tubing Tyr		HL i).75 m	Т	emp/pH/E.C	motor	151 0	TYC
	Bailer Type	rubing ryp	- plin		10300		ater Level F		- yolenin	
	Filter Type		.45 MW	2			ther	TODE	MARIN	<u>vl</u>
\sim	Well Cona		ок		Not OK	Explain		2		

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top .

HARTCROWSER Groundwater Sampling Data - Well I.D. MBB-7

Time Purged pH in *C ininin Turbidity in sheen, accumulated sit/sance Image: State of the state		Merce	r Megablo	ock	1-12-	DAT	E/TIME SAM	IPLED	3/4/2020/1630
FIELD REPS J. Blanchette SCREENED INTERVAL IN FEET 27.52 Purging Data/Field Measurements: All Measurements: Relative to Top of Casing (TOC) Well DEPTH 40 DEPTH TO SEDIMENT (DTS) IN FEET 35.15 J. Blanchette CASING VOLUME IN GALLONS 0.64 DEPTH TO SEDIMENT (DTS) IN FEET 35.15 I2' diam = x. 163 gailt 4' diam = x. 653 gai/fi] DEPTH TO WATER (DTW) IN FEET 30.94 PURGE VOLUME IN GALLONS 2.03 (DTS - DTW) 4'.20 ACTUAL PURGE IN GALLONS 2.03 Time Purged pH Temp Conduct Orsysen Time Purged pH Temp Conduct Orsysen Turbidity In State Time Purged pH Temp Conduct Orsysen Turbidity In State Comments: NO Ø In CS In CS Jassita Jassita Comments: NO Ø Ø In CS Method No X Method In GPM Equip.in Feet State State No X									YES NO
Purging Data/Field Measurements: All Measurements Relative to Top of Casing (TOC) WELL DEPTH 40	PROJECT	MANAGER	M. Dage						40
WELL DEPTH 40 CASING VOLUME IN GALLONS D.44 DEPTH TO SEDIMENT (DTS) IN FEET 35.15 I2 diam = x.163 galft 4 diam = x.653 galft] DEPTH TO WATER (DTW) IN FEET 30.69 PURGE VOLUME IN GALLONS 2.08 (DTS - DTW) 4.26 ACTUAL PURGE VOLUME IN GALLONS 2.08 Time Purged pH in °C Oxygen Turbidity in Person Time Purged pH in °C Diss. ORP Comments: quality, recovery, color, odor sheen, accumulated silf/sanc Image: State of the sta	FIELD REP	rs <u>J. Blar</u>	nchette			SCR	REENED INT	ERVAL IN I	FEET 27-32
DEPTH TO SEDIMENT (DTS) IN FEET 35,15 [2' diam = x.163 gal/ft] 4' diam = x.653 gal/ft] DEPTH TO WATER (DTW) IN FEET 30,64 PURGE VOLUME IN GALLONS 2.08 (DTS - DTW) 4.26 ACTUAL PURGE IN GALLONS 2.08 Time 94.26 ORP Comments: quality, recovery, color, odor sheen, accumulated sit/sand Time purged pH in °C Orduct Oxyen Time purged pH in °C In °C ORP Comments: quality, recovery, color, odor sheen, accumulated sit/sand Time purged pH in °C In °C ORP Comments: quality, recovery, color, odor sheen, accumulated sit/sand 16 172,37 pOS5,37 pOS5,37 pOS5,37 16 20 172,37 pOS5,37 No X Comments: 10 pUrget, LASEd bailed to Calloct Sample No X Purge) Purging	-	d Measur	ements:	All Measurer	ments Relati	ive to Top of	Casing (TC	
DEPTH TO WATER (DTW) IN FEET 20.69 PURGE VOLUME IN GALLONS 2.08 (DTS - DTW) 4.20 ACTUAL PURGE IN GALLONS 2.08 Time Purged 0RP Comments: quality, recovery, color, odor sheen, accumulated sit/sance in a ccumulated sit/sance in a									
(DTS - DTW) 4.26 ACTUAL PURGE IN GALLONS Image: Constant of the second se						(i)		1.70	
No. of Gallons Purged Temp pH Temp in °C Conduct Diss. Dxygen in ORP Turbidity in ORP Descination (6.11 Comments: quality, recovery, color, odor sheen, accumulated sit/sance poss 1 16.30					69				
Gallons pH Temp Conduct Oxygen Turbidity ORP Comments: quality, recovery, color, odor, sheen, accumulated sit/sand Image: State of the	(DTS – DTV	N) <u>4.2</u>	26			ACT	UAL PURGE	IN GALLO	ONS
Image: Sampling Data Image: Sampling Data Image: Sampling Data Image: Sampling Data Bottle Type Image: Sampling Type Image: Sampling Type Image:	Time	Gallons	рН			Oxygen	Turbidity		Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
Image: Sampling Data Image: Sampling Data Bottle Type Mutals Montal Mutals Mutals Image: Sample Mutals Image: Sample		,	F.,						
Ib 3D 214. pass 3 16 3D 214. pass 3 Comments: 10 pUrgl, Used bailed to callect Sample Purge							-	it	
16.30							1 2	198 12 11	
Comments: AD QUAGE, USEd bailed to callect Sample Method in GPM Equip. in Feet Boils dry? Yes No _X Purge			0				- 1 · · ·		
Comments: AD QUAGE, USEd bailed to callect Sample Method in GPM Equip. in Feet Boils dry? Yes No _X Purge	1/20							-	Slight ofor
Sample Dailed 33 Putge Water Disposal Method Volume in Accon truck Sampling Data Total number of Bottles Mitter Bottle Type Containers Analyses Preserv. Filter NDA 4 HIOG BEEFF 6+ H Cl N MMbar 1 Date Duplicate Sample 1.D. MMbar 1 Date N Polig 1 Mulais N Polig 1 Mulais N Polig 1 Mulais N Polig 1 Mulais N Field Equipment Type/Brand/Serial No./Material Units Pound Temp/pH/E.C. meter DateMula Bailer Type ASAC/dippSate Temp/pH/E.C. meter DateMula	Comments	:: – –	no pur	ge, u	sed w	ailer t	o collect	t sam	yple
Sampling Data Bottle Type # of Containers NOA 4 HOG BTEK + Gr H Cl NOA 4 HOG BTEK + Gr H Cl NOA 4 HOG BTEK + Gr H Cl NOA 1 Data Data NOA 4 HOG BTEK + Gr H Cl Noa N Noa N <th>Comments</th> <th>-</th> <th>no par</th> <th>Pumpin</th> <th>ig Rate De</th> <th>epth of</th> <th>Во</th> <th>ils dry?</th> <th>Yes No _X</th>	Comments	-	no par	Pumpin	ig Rate De	epth of	Во	ils dry?	Yes No _X
Bottle Type Containers Analyses Preserv. Filter VOA 4 HOG4 BTEK+ 6+ HCl N AMber 1 Dx - N AMber 1 Dx - N Polia 1 Dx - N Polia 1 Mutals 1 NUL N Polia 1 Mutals 10 MUL N Field Equipment Type/Brand/Serial No./Material Units - - Field Equipment Temp/pH/E.C. meter Dakthon Anbdmuter Bailer Type Plastic/disposition Water Level Probe Water Mutals		Method	1	Pumpin	ig Rate De	epth of quip. in Feet	Boi	ils dry? At no. of rge Water E	Yes No casing volumes Disposal Method/Volume
Bottle Type Containers Analyses Preserv. Filter NOA 4 HOG BTEFF 64 HCI N AMber 1 D4 - N AMber 1 D4 - N Polia 1 D4 - N Polia 1 Mutals 1 N Field Blank I.D. N N Rinseate Sample I.D. - Field Equipment Type/Brand/Serial No./Material Units - - Pounp Type/Tubing Type Temp/pH/E.C. meter Dalthon Anadmuter Bailer Type Plastic/disposatu Water Level Probe watether	Purge	Method	1	Pumpin	ig Rate De	epth of quip. in Feet	Boi	ils dry? At no. of rge Water E	Yes No casing volumes Disposal Method/Volume
VOA 4 HOG BIEFF 64 HCl N Mber 1 Dt - N Mber 1 Mulas N N Polia 1 Mulas N N Field Blank I.D. Field Equipment Type/Brand/Serial No./Material Units Field Equipment Temp/pH/E.C. meter Oakthon AnbdMuter Bailer Type Plastic / disposable Water Level Probe Water Mulas	Purge Sample	Method	1	Pumpin	ig Rate De	epth of quip. in Feet	Boi	ils dry? At no. of f rge Water E N deca	Yes No X casing volumes X Disposal Method/Volume Dr TMCL
Amber I Dt polia I Mulas polia I	Purge Sample Sampling	Method Data # of	ed	U Pumpir in GPM	ig Rate De	epth of quip. in Feet	Pui	ils dry? At no. of f rge Water E N deca	Yes No X casing volumes X Disposal Method/Volume Dr TMCL
Print With als With als With als With als With als Rinseate Sample I.D. Field Equipment Type/Brand/Serial No./Material Units Pump Type/Tubing Type Temp/pH/E.C. meter Dalkton AnbdMuter Bailer Type Plastic / disposable Water Level Probe Water Level Probe	Purge Sample Sampling Bottle Type	Method Data # of	ed Analy	Pumpir in GPM	ng Rate De Ec	epth of quip. in Feet 33	Pui	ils dry? At no. of f rge Water E M deca M deca Total n	Yes No X casing volumes No X Disposal Method/Volume on tmclu umber of Bottles
Field Equipment Type/Brand/Serial No./Material Units Pump Type/Tubing Type	Purge Sample Sampling Bottle Type √0Å	Method Data # of	ed hers Analy HUOC	V Pumpir in GPM 	ng Rate De Ec	epth of quip. in Feet 33' Preserv. HCl	Pui	ils dry? At no. of f rge Water E <u>M deca</u> Total n Duplica	Yes NoX casing volumes Disposal Method/Volume on tMCk umber of Bottles ate Sample I.D
Pump Type/Tubing Type Temp/pH/E.C. meter	Purge Sample Sampling Bottle Type VOA	Method Data # of	ed hers Analy HUOC	V Pumpir in GPM - - - - - - - - - - - - - - - - - - -	BRate De Ec	epth of quip. in Feet 33' Preserv. H Cl - WDz	Pui	ils dry? At no. of f rge Water E M deca Total n Total n Duplica Field Bi	Yes No casing volumes Disposal Method/Volume on tmclk umber of Bottles ate Sample I.D lank I.D
Bailer Type plastic / disposable Water Level Probe water Unc	Purge Sample Sampling Bottle Type VOA	Method Data # of	ed hers Analy HUOC	V Pumpir in GPM - - - - - - - - - - - - - - - - - - -	BRate De Ec	epth of quip. in Feet 33' Preserv. HCl 	Filter N N N	ils dry? At no. of d rge Water E M deca Total no Duplica Field Bi Rinseat	Yes No X casing volumes No X Disposal Method/Volume on tmclk umber of Bottles 4 ate Sample I.D. 4 lank I.D. 4 te Sample I.D. 4 Interview of Bottles 4 Interview of Bo
Bailer Type plastic / disposable Water Level Probe water Unc	Purge Sample Sampling Bottle Type VOA (MMbg (P))a (P))a	Method Data	ed hers Analy HUOC	V Pumpir in GPM - - - - - - - - - - - - - - - - - - -	BRate De Ec	epth of quip. in Feet 33' Preserv. HCl 	Filter N N N	ils dry? At no. of d rge Water E M deca Total no Duplica Field Bi Rinseat	Yes No X casing volumes No X Disposal Method/Volume on tmclk umber of Bottles 4 ate Sample I.D. 4 lank I.D. 4 te Sample I.D. 4 Interview of Bottles 4 Interview of Bo
	Purge Sample Sampling Bottle Type VOA (WWE (WWE VOA (WWE (WWE VOA (WWE (WWE (WWE (WWE (WWE (WWE (WWE (WW	Method b Quil b	ed hers Analy HUO M	V Pumpir in GPM - - - - - - - - - - - - - - - - - - -	BRate De Ec	epth of quip. in Feet 33' Preserv. HCl WW2 WW2 T	Filter N N N N N N N N N N N N N N N N N N N	ils dry? At no. of f rge Water I M deca Total n Total n Duplica Field B Rinseat	Yes No X casing volumes No X Disposal Method/Volume Disposal Method/Volume
	Purge Sample Sampling Bottle Type VOA (WWE (WWE VOA (WWE (WWE VOA (WWE (WWE (WWE (WWE (WWE (WWE (WWE (WW	Method	ers Analy HUOC W	Pumpir in GPM /ses + BTEX+ DX Muals Whals 1	BATE De Ec	epth of quip. in Feet 335 Preserv. HCI 	Filter N N N N N N N N N N N N N N N N N N N	ils dry? At no. of d rge Water E M deca Total n Duplica Field Bi Rinseat d/Serial I	Yes NoX casing volumes Disposal Method/Volume on tmclk umber of Bottles ate Sample I.D lank I.D te Sample I.D No./Material Units DAMMO_MDAMMER

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HARTCROWSER Groundwater Sampling Data - Well I.D. MBB-8

		ATION DESC	and the second second second second		mpwell	@ MBB:	8 -				
	(e.g., 20' A PROJECT	IW of E corne	er of building Megabloc			DAT	E/TIME SAM		2/27/20/1230		
	JOB NO.	194090	V	ⁿ					YES NO X		
		ANAGER					L DEPTH IN		32		
	FIELD REP								EET 21-32		
\sim		<u>or bran</u>			53	4					
	Purging	Data/Field			All Measure	ements Relativ					
	WELL DEPT	гн 🕅	# 4782	32		CASING VOLUME IN GALLONS 0.974					
A 1		SEDIMENT (4,95						
1410 11		WATER (DT)	and the second second	28	,97		GE VOLUME				
NS:	(DTS - DTW) <u> </u>					ACTI	JAL PURGE	IN GALLO	NS		
,		No. of Gallons		Temp	Conduct	Diss. Oxygen	NTU	ORP	Comments: quality, recovery, color, odor,		
	Time	Purged	pН	in °C		in	Turbidity	in	sheen, accumulated silt/sand		
	<u> </u>								Passi-S4INTU		
									Pass 2-700 NTU		
									PASS 3- 6.75 NTU		
sample:	1230	-	-		-	-	54.7	-			
	Comments	-		d-dept	h. First	pass filled	UDAS		mple. No purge. Sampled		
1		Method		Pumpin in GPM	-	Depth of Equip. in Feet		ils dry? At no. of	Yes NoK casing volumes		
	Purge			-	- 15	-	Purge Water Disposal Method/Volume				
	Sample	pailer				32 14	8	-			
2	Sampling			1					with an of Datillan		
	Bottle Type	# of Contain	ers Analys	ses	et	Preserv.	Filter	TOtal II	umber of Bottles		
0455 1 -	VOA	4	VOCS		81 - E	HCI	N0	Duplics	ate Sample I.D.		
20553-	Poly			us: tota		NOZ	NO		lank I.D.		
ass 2 -	Poly			als dis	salved	Ø	NO		te Sample I.D.		
pass3-	Amber		2 TPH	1		Ø	W				
` (3)	Field Equ	ipment				T.	ype/Bran	d/Serial	No./Material Units		
	Pump Type	/Tubing Typ	be i	Ø		Те	emp/pH/E.C	C. meter	(54.7 NTU: no flow cell)		
	Bailer Type	(T) (T)		ess st	ent.	Contraction in all the	ater Level		Waterline		
	Filter Type		~	1 			ther	-			
\sim	Well Con	ditions	OK		Not OK	Explain					

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HARTCROWSER Groundwater Sampling Data - Well I.D. <u>MBB-9-Gw</u>

PROJECT	Merce	er Megablo	ock		DAT	E/TIME SAM	IPLED	DATE/TIME SAMPLED 2/28/20/1010				
JOB NO.	19409					ALLY INFLUE		YES	NO V			
PROJECT		M. Dage	1			L DEPTH IN				_		
FIELD REF		nchette		14 · · ·				EET 27-3	2	1		
Purging			ements:)	All Measure	ements Relati			(**				
WELL DEP	тн <u>3</u>	2		20	CASING VOLUME IN GALLONS							
DEPTH TO	SEDIMENT	(DTS) IN FE	ET <u>35</u> .	54	[2	2" diam = x .1	63 gal/ft	4" diam = x .653	3 gal/ft]			
		(W) IN FEET	Ua	.4	PUR	GE VOLUME	E IN GALLO	NS 4.3	7 .	<u></u>		
(DTS – DT)	∧)	8.94			ACT	UAL PURGE	IN GALLO	NS	3) 10-1-12			
Time	No. of Gallons Temp Condu Time Purged pH in °C in ^A S					NTU Turbidity	ORP		uality, recovery, heen, accumulat			
1039			14.2	10 90	11	460	-190.1	N silfu(an	2.0			
1101			14.1	699	0.15	278.6	-199.10	- 0.11900	<u>.</u>			
1122	3	7.44	15.0		0.42	324	-223					
					0.36	236	-225					
1141	4	7.42	4.5	1044	11.20							
17.2	4.5	7.40 7.40 7.42 Men atter	14.3 13.5 13.2 mptingt	694 695 693 pull 41	0.32	132.6	-2269	U. H Seaved &	to be in airsp	icce (
1200	4.5	7.40	13.5	695 693 puil 44	0.32	132.6 102 mpling de Boi	-2269 -214 GH WgM	Yes	No			
1200	4.5 5 (M	7.40 7.42 when atter	13.5 13.2 nyting t	695 693 puil 44	0.32 0.33 1. 2019 50	132.6 mpling de Boi	-2269 -214 eft Mayu ils dry? At no. of c	Yesasing volumes _	No _			
1200 1223 Comments	4.5 5 (M	7.40 7.42 when atter	13.5 13.2 nyting t	695 693 puil 44	0.32 0.33 1. QVGL SC Depth of Equip. in Feet	132.6 mpling de Boi	-2269 -214 eft Mayu ils dry? At no. of c	Yes	No _			
Purge Sample	Method plastic plastic u Data # of	7.40 7.42 When aller	Pumping in GPM	695 693 puil 44	0.32 0.33 1. QVGL SC Depth of Equip. in Feet 30.4	132.6 Weing de Boi Pui	-2269 214 off Wayn ils dry? At no. of c rge Water D	Yesasing volumes _	No/ /olume 7			
Purge Sample	Method plastic plastic u Data # of	7.40 7.42 Men aller	Pumping in GPM	GAS GAS PUIL 4A	0.32 0.33 Levigi Sc Depth of Equip. in Feet 30.4	132.6 mpling de Boi	-2269 214 off Water ils dry? At no. of c rge Water D	Yes asing volumes isposal Method/V mber of Bottles	No			
Purge Sample	Method plastic plastic d Data # of Contai	7.40 7.42 Men aller	Pumping in GPM	GAS GAS PUIL 4A	0.32 0.33 1. QVGL SC Depth of Equip. in Feet 30.4	132.6 Weing de Boi Pui	-2269 214 At no. of c rge Water D Total nu Duplicat	Yes asing volumes isposal Method/V mber of Bottles e Sample I.D.	No/ /olume 7			
Purge Sample	Method plastic plastic d Data # of Contai	ners Analy VDC	Pumping in GPM	GAS GAS PUIL 4A	0.32 0.33 1. gwg. [se Depth of Equip. in Feet 30.4 Preserv. Hcl ND3	132.6 Weing de Boi Pui	-2269 214 dt Water ils dry? At no. of c rge Water D Total nu Duplicat Field Bla	Yes asing volumes isposal Method/V mber of Bottles e Sample I.D. ank I.D.	No/ /olume 7			
E I Wo IVV3 Comments Sample Sampling Bottle Type V0A AMber	Method plastic plastic d Data # of Contai	ners Analy VDC	Pumping in GPM	GAS GAS PUIL 4A	0.32 0.33 Levigi Sc Depth of Equip. in Feet 30.4	Filter N	-2269 214 dt Water ils dry? At no. of c rge Water D Total nu Duplicat Field Bla	Yes asing volumes isposal Method/V mber of Bottles e Sample I.D.	No/ /olume 7			
Purge Sample	4.5 5 (*) Method plastic p u Data # of Contai 4 1 1	ners Analy VDC	Pumping in GPM	GAS GAS PUIL 4A	0.32 0.33 1. gwg. [se Depth of Equip. in Feet 30.4 Preserv. Hc1 ND3 NM3	Filter N N	-2269 214 dt Water At no. of c rge Water D Total nu Duplicat Field Bla Rinseate	Yes asing volumes isposal Method/V mber of Bottles e Sample I.D. ank I.D.	No /olume 			
Purge Sample	Hisking Method Plasking Data Data Hof Contai H I I I I I I I I I I I I I I I I I I	ners Analy Noc Tryz Men atter Mon Noc Try Multi Multi Multi	Pumping in GPM	g Rate	Preserv. HCI ND2 MM	Filter N N	-2269 214 At no. of c rge Water D Total nu Duplicat Field Bla Rinseate	Yes asing volumes isposal Method/V mber of Bottles e Sample I.D. ank I.D. e Sample I.D.	No /olume 	X		
Purge Sample) Sampling Bottle Type VDA AMPLA Poly Poly Poly	Method Plastic Plastic Plastic Plastic I Data # of Contai I I I I I I I I I I I I I	ners Analy Noc Tryz Men atter Mon Noc Try Multi Multi Multi	Pumping in GPM	g Rate	0.32 0.33 1. gwg. [se Depth of Equip. in Feet 30.4 Preserv. Hc1 ND3 NM3 Tg	132.6 02 mpling de Boi Pul Filter N N V	- 2269 214 at no. of c rge Water D Total nu Duplicat Field Bla Rinseate d/Serial N 2. meter	Yes asing volumes isposal Method/V mber of Bottles e Sample I.D. ank I.D. e Sample I.D.	No /olume 			
Purge Sample) Sampling Dottle Type NOA AMber Poly poly poly Pump Type	Method Plastic Plastic Plastic Plastic I Data # of Contai I I I I I I I I I I I I I	ners Analy Noc Tryz Men atter Mon Noc Try Multi Multi Multi	Pumping in GPM	g Rate	0.32 0.33 . 2019. [se Depth of Equip. in Feet 30.4 Preserv. Hc1 ND3 ND3 ND3 Tre W	132.6 02 mpling de Boi Pui N N V ype/Brance emp/pH/E.C	- 2269 214 at no. of c rge Water D Total nu Duplicat Field Bla Rinseate d/Serial N 2. meter	Yes asing volumes isposal Method/V mber of Bottles e Sample I.D. ank I.D. e Sample I.D.	No /olume 			

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HARTCROWSER Groundwater Sampling Data - Well I.D. MBB/0-6W

PROJECT	PROJECT Mercer Megablock JOB NO. 1940904						PLED	2/17/20/1534
JOB NO.								YES NO X
	MANAGER			2		L DEPTH IN		40
FIELD RE		anchette						
1 Purging	g Data/Fiel		ements: /	All Measuren	nents Relati	ve to Top of	Casing (TO	с)
WELL DE	PTH	40	14 14	A	CAS	ING VOLUM	E IN GALLC	ONS 1.88
WELL DE	O SEDIMENT	(DTS) IN FE	ET <u>44</u> ,	23 (39.	066gs) [2	" diam = x .1	63 gal/ft	4" diam = x .653 gal/ft]
	O WATER (D	and the second second	32.	69 (27.5	2635 PUR	GE VOLUME	IN GALLO	NS 5.65
(DTS – DT	rw) <u>l</u>	1.56			ACT	JAL PURGE	IN GALLON	NS <u>4</u>
	No. of Gallons		Temp	Conduct	Diss. Oxygen		ORP	Comments: quality, recovery, colo
Time	Purged	pH	in °C	in <u>US/cm</u>	in <u>ppm</u>	Turbidity	in	sheen, accumulated s
1556		8.17	10.2	1575	0.52	49.5	-257.2	
1616		8.14	lle	1288	0.45	33.33	-269.2	
1636		8.08	16.0	ion	0,36	18.85	-274.7	
1655	4	3.01	16.0	1022	0.32	19.65	-272.9	
nple: Commen	its:	Sam	ple M	BB-10-1	aw @	1200		
	its:	SAM					ils dry?	Yes No
	its: Method	SAM	Pumpin in GPM	g Rate De	pth of uip. in Feet	Boi	ils dry? At no. of c	Yes No
			Pumpin	g Rate De Eq	pth of uip. in Feet	Boi	At no. of c	
Commen	Method		Pumpin in GPM	g Rate De Eq	pth of uip. in Feet	Boi	At no. of c rge Water D	casing volumes
Commen	Method Plastic pur		Pumpin in GPM	g Rate De Eq	pth of uip. in Feet .4	Boi	At no. of c rge Water D	casing volumes Disposal Method/Volume S , Combaned w/ HMW 975
Commen Purge Sample 2 Samplin	Method Plashic pun u ng Data # of	мр	Pumpin in GPM	g Rate De Eq	pth of uip. in Feet	Boi	At no. of c rge Water D	casing volumes
Commen Purge Sample	Method Plashic pun u ng Data # of	MP iners Anal	Pumpin in GPM 0.0 ⁴	g Rate De Eq	pth of uip. in Feet .4	Boi	At no. of c rge Water D gallan Total nu	casing volumes Disposal Method/Volume S , Combaned w/ HMW 975 umber of Bottles
Commen Purge Sample 2 Samplin Bottle Ty	Method Plashic pur u ng Data pe Conta 4	MP iners Anal	Pumpin in GPM 0.0 ⁴	g Rate De Eg	pth of uip. in Feet	Boi Pui L	At no. of c rge Water D <u>Qallan</u> Total nu Duplicat	casing volumes Disposal Method/Volume S , <u>combaned</u> w/ HMW 975 umber of Bottles ite Sample I.D.
Commen Purge Sample 2 Samplin Bottle Ty JOA Quick Quick O(y)	Method Plashic pur u ng Data pe Conta 4	iners Anal	Pumpin in GPM D. 0 ^C U V V V V V V V V V V V V V V V V V V	g Rate De Eg	pth of uip. in Feet	Filter M2 M2 M2	At no. of c rge Water D Gallan Total nu Duplicat Field Bla	casing volumes Disposal Method/Volume S , Combaned w/ HMW975 umber of Bottles ite Sample I.D lank I.D
Commen Purge Sample 2 Samplin Bottle Ty JOA Quide	Method Plashic pur u ng Data pe Conta 4	iners Anal	Pumpin in GPM 0.0° v v vses Cs + TP	g Rate De Eg	pth of uip. in Feet .4 Preserv.	Filter	At no. of c rge Water D Gallan Total nu Duplicat Field Bla	casing volumes Disposal Method/Volume S , <u>combaned</u> w/ HMW 975 umber of Bottles ite Sample I.D.
Commen Purge Sample 2 Samplin Bottle Ty JOA Ambe Oly JOY	Method Plashic pur u ng Data pe Conta 4	iners Anal	Pumpin in GPM D. 0 ^C U V V V V V V V V V V V V V V V V V V	g Rate De Eg	Preserv.	Filter M2 M3 M3	At no. of c rge Water D Gallan Total nu Duplicat Field Bla Rinseate	casing volumes Disposal Method/Volume S , Combaned w/ HMW975 umber of Bottles ite Sample I.D lank I.D
Commen Purge Sample 2 Samplin Bottle Ty JOA AMbe Oly JOY 3 Field Eq	Method Plashic put u og Data pe d Conta U U U uipment	iners Anal	Pumpin in GPM D. 0 ^C U V V V V V V V V V V V V V V V V V V	g Rate De Eg	pth of uip. in Feet .4 Preserv. NO3 NO3 T	Filter M2 Wa V/S V/S V/S V/S V/S	At no. of c rge Water D <u>Qallan</u> Total nu Duplicat Field Bla Rinseate	casing volumes Disposal Method/Volume S , Combaned w/ HMW975 umber of Bottles ute Sample I.D lank I.D te Sample I.D
Commen Purge Sample 2 Samplin Bottle Ty JOA AMbe Oly JOA Oly JOY Sield Eq Pump Typ	Method Plashic pur ng Data pe Conta Generation Conta	iners Anal	Pumpin in GPM D. 0 ^C U V V V V V V V V V V V V V V V V V V	g Rate De Eg	Preserv.	Filter M2 M3 M3	At no. of c rge Water D Gallan Total nu Duplicat Field Bla Rinseate C. meter	casing volumes Disposal Method/Volume S , Combaned w/ HMW975 umber of Bottles ute Sample I.D lank I.D te Sample I.D
Commen Purge Sample 2 Samplin Bottle Ty JOA AMbe Oly JOY 3 Field Eq	Method Plashic put ag Data pe Conta Plashic put ag Data () () () () () () () () () ()	iners Anal	Pumpin in GPM D. 0 ^C U V V V V V V V V V V V V V V V V V V	g Rate De Eg	Preserv.	Filter	At no. of c rge Water D Gallan Total nu Duplicat Field Bla Rinseate C. meter	casing volumes Disposal Method/Volume S , Cmbaned w/ HMW975 umber of Bottles te Sample I.D lank I.D te Sample I.D Vo./Material Units

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H

-	HARTCROWSE	R Groundwate	er Sampling D	ata - Well I.D. <u>MBB</u> -1
	WELL LOCATION DESC. (for new w (e.g., 20' NW of E corner of building PROJECT M.M.B	vells) northern-Most.	temp well an a	sest side & property
	JOB NO. 1940904 PROJECT MANAGER M. Da FIELD REPS Doff. 65	ge) v	IDALLY INFLUENCED	YES NO
\sim				
	Purging Data/Field Measure	2	elative to Top of Casing (TOC	
~			ASING VOLUME IN GALLO	NS6/7
	REPTH TO SEDIMENT (DTS) IN FE	0 101		4" diam = x .653 gal/ft]
WNCDI	(DTS – DTW) 9.91		URGE VOLUME IN GALLO	
63		0	CTUAL PURGE IN GALLON	s <u> </u>
1 111	No. of Gallons Time Purged pH	Temp Conduct Oxyg in ℃ in ♥2 CA in ♥2	Turbidity in U	Comments: quality, recovery, color, odor, sheen, accumulated silt/sand
	1173 0.1 8.64 BZ 0.0 KIU	13.5 994 62	0 160.0 -194.9	Slightly clandy NO, NS
	1139 10 8.11	13.8 1167 33	4220 -514.6	h in in
/	1152 1155 7 (8	[3,7] $[1,7,3]$ $[2,3]$	7 2590 - 179	cloudy, NONS
amalo	107 2.0 726	13.6 1645 18 1	$188.10 - 444_0$ 1 1 1 4 - 472	/
			<u>1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	1.7
	Comments: <u>Pullit</u>	1+ 60 17.07.	12 19 1:	by the pump mound
	Mothed	Pumping Rate Depth of	Boils dry?	Yes No X
	Purge Sub. PUMP	in GPM Equip. in F	C At no. of c	asing volumes
	Sample	LI 278	Purge Water Di	sposal Method/Volume
		U Ø		2 01 3179
(2)	Sampling Data			
	# of		Total nu	
	Bottle Type Containers Analy		v. Filter	mber of Bottles
		Kals (tere) HNO	3 N Duplicat	e Sample I.D.
		UNIT TICED TIM	Field Bla	
			Rinseate	Sample I.D.
3	Field Equipment		Type/Brand/Serial N	o./Material Units
-	Pump Type/Tubing Type 😔 🗸	b/PE		VET D
	Bailer Type		Temp/pH/E.C. meter	104 USS
	Filter Type		Water Level Probe	working
			Other	

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	+me 1218	#gallpurged	PH F.D	temp 13.3	Cond []	Contraction of the local division of the loc	TUTH 167.83		No, NS
Canala	1233 1250 1303 1317	4.5	7.16 7.08 7.04 7.01		.940	14.5	16420	-Salls	1 00 1NS
Sample	1335	5.0	7.00	13-8	808	14 0	122.87	-49	ALL ALL
	با التاني بل التاني التاريخ التاني التاريخ التاني التاريخ التاريخ التاريخ التاريخ التاريخ التاريخ التاريخ الت								

 $|\hat{T}_{\rm TM}|$

Projec	-t		MMB				_ Date/Time Sampled 3/ 9/2020 // 1150 //S 1
Job N			194090	14-04			
	o. ct Manager		M. Dag				_ Tidally Influenced Yes No χ ρ Well Depth in Feet 35
Field	-		-)/ JB / BL	/ 114		Screened Interval in Feet 30-35
	-		$\overline{}$				
1) Pl	urging D	ata/Fie	eld Mea	asureme	ents: A	ll Meası	urements Relative to Top of Casing (TOC)
Well [-		36				Casing Volume in Gallons
Depth	of Sedime	ent (DTS) in Feet	36.0	5		[2" diameter = x 0.163 gal/ft]
Depth	of Water ((DTW) ir	Feet	26.24	11		_ Purge Volume in Gallons
(DTS	- DTW)			<u>q. 8(</u>			Actual Purge in Gallons
	No. of		Temp		Diss	_	
Time	Gallons Purged	рН	in °C	Conduct in uS/cm	Oxygen in mg/L	Turbidity in NTU	IORP in mV Comments: Quality, Recovery Color, Odor, Sheen, Accumulated Silt/Sand
+ 1030	Dol	6.96	11.6	769	4.77	60.70	-1193 initially dear. NO.NS
1045	<u> </u>	1.	0.0	11 22	197	1.2 / 5	
1052		6.50	12.7	740	1.10	22.60	Lear, NO, NO
		6.87	17.4	5.4	1.61	16.16	
1119		6.88	15.8	750	1.57	14.93	-453.7 11 11 61
114	725	6.87	[3,3	742	1.56	14.04	-Mak in a se
ILSO	2.55	6.87	13.7	741	1.54	13.47	-457.5 11 11
Comr	monto		<u> </u>	,			
	nonio						
	пенко			<u>. </u>			
			Purgin	g Rate in	Dep	oth of	
	Meti	hod		g Rate in SPM		oth of ent in Feet	Bails dry? Yes No
		hod MLP		PM			
Purge		hod MLP	LC	БРМ >_{	Equipme 37	nt in Feet	Bails dry? Yes No
		hod MJP	LC	PM	Equipme	nt in Feet	
Purge		hod MP	LC	БРМ >_{	Equipme 37	nt in Feet	At no. of Casing Volumes
Purge Sample		тр	LC	БРМ >_{	Equipme 37	nt in Feet	At no. of Casing Volumes
Purge Sample 2) Sa	Meth FUD P	MP Data	G LC		Equipme 32 11	nt in Feet	At no. of Casing Volumes
Purge Sample 2) Sa Bottle Type	Met FUD P I I ampling	Data	G LC L	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	nt in Feet	At no. of Casing Volumes
Purge Sample 2) Sa	Meth FUD P	MAP Data	G LC L		Equipme 32 11	nt in Feet	At no. of Casing Volumes
Purge Sample 2) Sa Bottle Type	Met FUD P I I ampling	MAP Data	G LC I Ana MTCA	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles Duplicate Sample I.D.
Purge Sample 2) Sa Bottle Type	Met FUD P I I ampling	MAP Data	G LC I Ana MTCA	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes
Purge Sample 2) Sa Bottle Type	Met FUD P I I ampling	MAP Data	G LC I Ana MTCA	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles Duplicate Sample I.D. Field Blank I.D.
Purge Sample 2) Sa Bottle Type	Met FUD P I I ampling	MAP Data	G LC I Ana MTCA	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles Duplicate Sample I.D.
Purge Sample 2) Sa Bottle Type	Met FUD P I I ampling	MAP Data	G LC I Ana MTCA	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles Duplicate Sample I.D. Field Blank I.D.
Purge Sample 2) Sa Bottle Type	Met FUD P I I ampling	Data ntainers	Ana MTCA	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D.
Purge Sample 2) Sa Bottle Type	Metil FUD P I I Ampling	Data ntainers	Ana MTCA	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles Duplicate Sample I.D. Field Blank I.D.
Purge Sample 2) Sa Bottle Type POLy DIJ Sa 3) Fig	Metil FUD P I I Ampling	Data ntainers	Ana Marca Marca	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D.
Purge Sample 2) Sa Bottle Type Duy Duy 3) Fig	Metil FUD P I I mpling No of Co T P Mo of Co T C T C C C C C C C C C C C C C	Data ntainers	Ana Marca Marca	BPM D, (L 1 alyses	Equipme 37 11 Perserv.	Filter	At no. of Casing Volumes Purge Water Disposal Method/Volume Total Number of Bottles Duplicate Sample I.D. Field Blank I.D. Rinseate Sample I.D. Type/Brand/Serial No./Material/Units

- tem

Explain

N

Zuell

HC Standards/Field Forms/GW-Well ID

4)	Well	Conditions
----	------	------------

500.6	2mp/15
0.40	Mictory
ОК	Not OK

	H												
	HART	CRO	WSE	Gro	Groundwater Sampling Data - Well I.D. <u>MBB-</u> 15								
	WELL LOCATION DESC. (for new wells) (e.g., 20' NW of E corner of building A) PROJECT MANAGER M, Day M FIELD REPS A, Ng bahara + B, Doz; (SCREENED INTERVAL IN FEET 30-35												
1	Purging D)ata/Field	Measure	ments: All	Measurer	nents Relativ	e to Top of	Casing (TOC)				
	WELL DEPTH 35 615 CASING VOLUME IN GALLONS 1.51												
	DEPTH TO SEDIMENT (DTS) IN FEET $\frac{35.75}{26.49^{1}}$ [2" diam = x .163 gal/ft 4" diam = x .653 gal/ft] DEPTH TO WATER (DTW) IN FEET $\frac{26.49^{1}}{26.49^{1}}$ PURGE VOLUME IN GALLONS 4.53												
	(DTS – DTW) 9.26 ACTUAL PURGE IN GALLONS									75			
	Time	No. of Gallons Purged	Hq		Conduct	Diss. Oxygen in M91 L	NTU Turbidity	ORP	Comments: qu	ality, recovery, color, een, accumulated sil	odor,		
	1426	0.1	7.96	13,56 T	709	3,70	492.13		initiall	e turbid, 1	NO, D		
	1440	0.75	7.25	143 1	199	1,11	290.63	-4241	Miss this	STU, NUNS			
	1494		7.10	1413	322	1.76	23017	-438.3	Stor Sligh	thy lesture:	1. No (NS		
sample:	1503	2:0	7.01	14.5	1116	h-55	10632	-407.3	denter	No. NS	0,005		
	Comments:	-								· · · · · · · · · · · · · · · · · · ·			
		Method		Pumping F in GPM		epth of quip. in Feet	B	oils dry?	Yes	No 🔨			
	Purge Submers		trs, bll	611 NO.05		32			Disposal Method/Volume		_		
	Sample		t (((1(disposed				4		
2	Sampling	Data											
	Pottle Turne	# of				D	E 14	Total nu	mber of Bottles				
	Bottle Type	Contaii	ners Analy PA	$\frac{\text{ses}}{0 + f(k)}$		Preserv.	Filter	Duplicate Sample I.D.					
	amber		DR			No.	<u></u>				_		
								Rinseat	e Sample I.D.	(1/A	_		
3	Field Equ	ipment				Tj	ype/Brar	nd/Serial N	lo./Material U	nits			
	Pump Type	/Tubing Ty	pe <u>pla</u>	til suf	omersil	μ. Te	mp/pH/E	C. meter	1 DY	DSS Pro			
	ALLA .							evel Probe Watterline 75					
	Filter Type		N//-	<u>}</u>		01	ther						
4	Well Cond	ditions	Ok	(N	ot OK	Explain	D/A	- to	emplue	21			
					2		- 4 9	2	1				

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Time	9 a 1	pt/	Temp	Corduct	DO	1. Turbidity	ORP	Comments
1512	2.5		14.3	1267	1.51	81.57	-45.2	NONS
1523	3.0	6.95	14.4	1241	1.47	72.81	-489.4	
(533	3.5	6-93	14.2	1217	1.46	68.95	-4871	(V0, 45
1543	4.0	6.95	[4,1	1197	1.76		11	
1618	4.75	6.88	14.3	[115	1.41	35.88.	-4889	(10,05
								2 0