ATTACHMENT 4: FIELD LOGS

This attachment contains the groundwater sample collection field logs for the relatively shallow standpipe monitoring wells (MW-5 through MW-8, MW-10, MW-13, MW-15, and MW-16), as well as the field data sheets for the WestbayTM multiport wells (MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-26). Groundwater sample collection for the 3rd Quarter 2018 sampling event was conducted by Blaine Tech Services, Inc.

Note: During the third quarter 2018, the shallow standpipe well MW-13 was inaccessible due to ongoing construction activities and the uppermost sampling port (i.e., Screen 1) in multi-port monitoring wells MW-12, MW-14, MW-20, and MW-21 were dry and could not be sampled.

Probe to Top Collar

		/EL INSIDE C	:ASING: /	73, 14 09 (Finish)	14	(1)		- - - -		SERIAL NO. Z PROJECT: OPERATOR(S)	EMS SPL	stbor 250 are	Z					- - - -	
	Function Te top of collar							ction Checks port in MP casing))	7/7-			Field Parame	eters				Sample]
Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe) Pressure in MP Casing (psl)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psl)	Close Valve/	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
	V		1	185,75	V	185,04	V	185,04	v	185,75	20.8	652	674	16	6109	223	0735	mw-3-4	
	V	V	V	93,06	V	93,37	V	93,37	V	93,06 .	20,6	565	7.08	4	6,31	197	0800	mw-3-3	
	V	V	V	58,03	V	53,32	V	53,32	V	52.03	2015	533	7,24	2	610	174	0830	mw 3 1 m	4 1-3-2
								· · · · · · · · · · · · · · · · · · ·											
												117							
					$\frac{1}{1}$														
					1														
-07	7251	160	700																

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WELL ID: MW-4	PROBE TYPE / Was How
SAMPLING DATE(S) 07/3//18	SERIAL NO. FM5 2502
WATER LEVEL INSIDE CASING: 149, 97	PROJECT: SPL
ATM. PRESSURE (PSI): (Start) 14,07 (Finish) 14,09	OPERATOR(S) / Hocus WEATHER CLESS
	monney year

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position) / (lower pro	Sampler be to port)					ction Checks port in MP casing)	774		F	Field Parame	eters		1176	T	Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 pst)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psl)	Close Valve/ Shoe in	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	На	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
3	1_	V	V	V	V	V	73,56	M	93,09	V	93,09	V		23,8	1048	7.88	17	7:09	-99	1130	mw-4-3	
2	1	V	V	V	V	V	57,74	V	57.72	V	57.72	V	57.74	24.0	1166	7,71	4	6183	178		mW-4-2	_
ļ	1	V	V	V	V	V	18,37	レレ	23,84	V	22,84	V		24,1	508	8,14	3	6,73	174	1245	mw-4-1	
									······································													

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								\dashv		+		-										_
		#B-6																				

Comments: #B-6-673/18@ /310

							-	
Project #:	1807	20-	141		Site:	JPL		
Sampler:	AH				Date:	798/02	118	
Well I.D.:	mw-	-5			Well Di	iameter: 2	3 (4) 6	8
Total Well	Depth (TD): ال	10.00		Depth to	o Water (DT	W): 119,60	<u> </u>
Depth to Fi	ree Produ	uct:			Thickne	ess of Free Pi	oduct (feet):	
Referenced	to:	(PVC)	Grade			ell Type		YSI 556
DTW with	80% Re	charge	[(Height of	Water Col	lumn x 0	.20) + DTW]	: 123,75	5
Purge Method:		Positive	ble Bailer Air Displacemer Submersible		Waterra Rediflo pump raction Pump	Ded.	Sampling Method	Disposable Bailer Extraction Port Dedicated Jubing
26P 13.3 ₍₁ 1 Case Volume	Gals.) X	3 pecified V	= 3	9,9 Gals		Well Diameter Mul 1" 0.04 2" 0.16 3" 0.37	6"	
1 case votatile		T T	Cond.	ulated Volume	JL			
Time	Temp	pН	(mS/cm or	Turbidity (NTUs)	D.O. (mg/	/L) ORP(mV)	Gals. Removed	D TW Observations
0705	68.3	6.67	549	3	1.31	161	8	119.75
0108	68.5	6.60	386	a	1.05	153	14	119.77
0711	61.5	6,82	379	J	0.90	144	20	119,78
0714	67.3		377	<u> </u>	0.96	142	26	119,78
0717		6.81	375		0.90	140	32	119,78
0721	67,4	6.80	373		09	1 137	40	119178
Did well de	water?		Yes (No)	Gallons	actually evad		
Sampling D		3		Sampling	***			
Sample I.D.			118	···	Laborato		Depth to Wate	1: 19.78
Analyzed fo		<u>, </u>	1787.	***************************************	······································	<u> </u>	Other: Sag C	. Cl- C.
EB I.D. (if a	pplicabl	le):		@ Time	Duplicat	e I.D. (if app	OffeiseeC licable): DUP	5-201861
FB I.D. (if a	pplicabl	e):	4		Analyze		— YOP	073
D.O. (if req'	d):		Pre-purge:		mg/L	Post	-purge:	mg/L
O.R.P. (if re	q'd):		Pre-purge:		mV		-purge:	mV

Project #: \S\O	720-HHI		Site:	OL		
Sampler:			Date: 08	102	118	
Well I.D.: MW	-6		Well Diam	eter: 2	$\frac{1}{3}$ (4) 6	8
Total Well Depth (TD): 245,00		Depth to W	Vater (DT)	W): 2311	3
Depth to Free Prod	uct:		Thickness	of Free Pr	oduct (feet):	
Referenced to:	PVC Grade		Flow Cell	Туре		YSI 556
DTW with 80% Re	echarge [(Height of	Water Col	lumn x 0.20) + DTW]	: 233,90	
Purge Method:	Bailer Disposable Bailer Positive Air Displacemen Electric Submersible		Waterra Rediflo pump raction Pump	æ	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing
260m			Well 1		iplier Well Diameter 4"	
1 Case Volume (Gals.) X	$\frac{3}{\text{pecified Volumes}} = \frac{3}{Calcu$	7,3 Gals	3.		6" Other	1.47 radius² * 0.163
Temp Time (°F)	Cond. (mS/cm or pH µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	PTU
0833 719	7,26 1093	32	3.09	165	6	831.20
0835 70,6	7.20 1109	21	2,90	150	16	231.45
0837781	7.21/113	17	2.66	139	14	231,53
0840 7213	7.21 1116	15	2,60	135	20	831.56
0842 72,2	7.19 / 114	13	2,53	133	24	231,58
0844 7211	7.18 1113	13	2,51	131	28	231,59
			e ^{g ye}			
Did well dewater?	Yes'	No)	Gallons act	ually evac	cuated: 28	
Sampling Date: 08	-102/18	Sampling	Time: 08	45	Depth to Wate	r: 231,59
Sample I.D.: MA	N-6		Laboratory	BC		
Analyzed for: Se	e C-0.C				Other:	
EB I.D. (if applicab	le):	@ Time	Duplicate I.	.D. (if app	licable): DID	-6-3Q/SQ
FB I.D. (if applicab	le):	@ Time	Analyzed for	or:		6
D.O. (if req'd):	Pre-purge:		mg/L		-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post	-purge:	mV

Project #:	8072	20-1-	41-11		Site: 2	<u>5</u> }	U.		
Sampler:	<u> </u>				Date:	89	102/1	8	
Well I.D.:	mn-	7	~		Well Di	am	eter: 2	3 (4) 6	8
Total Well	Depth (TD): 💆	267,5	2	Depth to	o W	ater (DT	W): 258.	28
Depth to Fr	ee Prod	uct:						oduct (feet):	
Referenced	to:	PVC	Grade		Flow Ce	ell [Гуре		YSI 556
DTW with	80% Re	charge	[(Height of	Water Col	lumn x 0.	.20)) + DTW]	26017)
Purge Method:		Bailer Disposa Positive	ble Bailer Air Displacemer Submersible	2/F	Waterra Rediflo pump raction Pump		ed	Sampling Method Other	Disposable Bailer Extraction Port Dedicated Tubing
16P1 6,1 1 Case Volume	Gals.) X	3 pecified V	= Calc	183 Gals		Well I 1" 2" 3"	0.16	iplier Well Diameter 4" 6" Other	Multiplier 0.65 1.47 radius ² * 0.163
Time	Temp (°F)	pН	Cond. (mS/cm or uS/cm)	Turbidity (NTUs)	D.O. (mg/	/L)	ORP(mV)	Gals. Removed	DTW Observations
1110	7712	7.75	796	119	4,83	3	173	3	258.39
1113	77.1	7.73	730	94	4175	5	139	6	258.46
1116	76.4	7,70	724	60	4173	3	125	9	258,49
1119	76.2	765	722	41	4,70	<u> </u>	122	12	258.51
1122	76.1	7,63	719	39	4,68	3	121	15	258,52
1126	75.9	7.62	716	38	4165	<u> </u>	419	19	a58,53
			***************************************					•	
Did well dev	water?	···	Yes (No	Gallons	actı	ually evac	uated: 19	
Sampling Da	ate: +	27 0	28/02/18	Sampling	Time:	12	7	Depth to Wate	r: 258.53
Sample I.D.:	mu	,-7			Laborato	ry:	BC		
Analyzed for	r: Sce	26.0	J-C				f	Other:	
EB I.D. (if a	pplicabl	e):		@ Time	Duplicat	— е І.	D. (if app	licable):	
FB I.D. (if a	pplicabl	e):		(n)	Analyzed				
D.O. (if req'o	d):	· · · · · · · · · · · · · · · · · · ·	Pre-purge:		$^{ m mg}/_{ m L}$		Post-	purge:	mg/L
O.R.P. (if red	q'd):		Pre-purge:		mV			purge:	mV

Project #:	1807	20-	HAI		Site:	5PL		
Sampler: 6	414				Date: C	8/02	118	
Well I.D.:	MIN	-8			Well Dia	ameter: 2	3 (4) 6	8
Total Well	Depth (ΓD):	205,0	0 (Depth to	Water (DT)	W): \F4.5	50
Depth to Fr	ee Produ				Thickne	ss of Free Pr	oduct (feet):	
Referenced	to:	PVC) Grade		Flow Ce			YSI 556
DTW with	80% Re	charge	[(Height of	Water Col	lumn x 0.	20) + DTW]	: 188.60)
Purge Method:		Positive	ble Bailer Air Displacemen Submersible		Waterra Rediflo pump raction Pump	Dee	Sampling Method	Disposable Bailer Extraction Port Decicated Tubing
12 11	Gals.) X _	3 pecified V	$\frac{1}{\text{olumes}} = \frac{1}{\text{Calcut}}$	10. 2 _{Gals}		/ell Diameter Mult 1" 0.04 2" 0.16 3" 0.37	6"	Multiplier 0.65 1.47 radius ² * 0.163
Time	Temp (°F)	pН	Cond. (mS/cm or µ8/cm)	Turbidity (NTUs)	D.O. (mg/	L) ORP(mV)	Gals. Removed	PTW Observations
0928	71.8	7,53	556	ュ	5,04	156	6	184.83
0932	7213	7,45	631	2	4,85	5 133	14	184.95
6935	7215	7,40	635	2	4.73	3 120	20	185,03
0939	7213	7,39	<u>633</u>		4,65	5 117	28	185,06
0941	72,0	7,37	631	Ì	4,64	1 115	32	185,08
0946	72.0	7,35	630)	4,68	1114	42	185.09
Did well de	water?		Yes (No	Gallons a	actually evac	cuated: 42	
Sampling D	ate: 0	8/02	118	Sampling	Time:	947	Depth to Wate	r: 185.09
Sample I.D.	: mu	ج- د			Laborato	ry: <i>BC</i>		180,01
Analyzed fo	r: S-e	ec	-0.0				Other:	
EB I.D. (if a	pplicab	le):		@ Time	Duplicate	e I.D. (if app	licable): DUP	-7-3018a
FB I.D. (if a	pplicabl	le):		@ Time	Analyzeo		- VI	0957
D.O. (if req'	d):		Pre-purge:		$^{mg}/_{L}$	Post	-purge:	mg/L
O.R.P. (if re	q'd):		Pre-purge:		mV	Post	-purge:	mV

Project #: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	20-1	4/41		Site:	し		
Sampler: 44				Date: 0	8/02	118	
Well I.D.: MW	-10			Well Diar	neter: 2	3 (4) 6	8
Total Well Depth (TD): \	55,00)	Depth to	Water (DT	w): 135,3	5
Depth to Free Prod	luct:		*	1		oduct (feet):	
Referenced to:	PVG	Grade		Flow Cell	Type		YSI 556
DTW with 80% Re	echarge	[(Height of	Water Col	lumn x 0.20)) + DTW]	: 139,28	
Purge Method:		ole Bailer Air Displacemen Submersible	2't t Extr Other	Waterra Rediflo pump raction Pump	Sed.	Sampling Method:	Disposable Bailer Extraction Port Dedicated Tubing
26PM				Wel		Other:	Multiplier
1 Case Volume Gals.) X	5 pecified Vo	$\frac{3}{\text{Calcu}} = \frac{3}{\text{Calcu}}$	Gal:	11	1" 0.04 2" 0.16 3" 0.37	6"	0.65 1.47 radius ² * 0.163
Temp Time (°F)	pН	Cond. (mS/cm or us/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW Observations
1010 2.5	7,28	745	6	1,34	192	6	135,65
1013 72,8	7,25	756	4	1,10	175	12	135,89
1016729	7,21	773	4	1106	163	18	135,95
1019 7216	_	777	3	1.05	160	24	135.97
1022 72,5	 	779	_3	1.02	157	30	135,99
1027 7213	716	783	3_	0.99	154	40	136.01
Did well dewater?		Yes (NO	Gallons ac	tually evac	cuated: 40	
Sampling Date: 0	8/02	118	Sampling	Time:	28	Depth to Wate	r: 136.01
Sample I.D.: WV	V-10		***************************************	Laborator	y: BC	1	-
Analyzed for: Se	c C .C	J. C				Other:	
EB I.D. (if applicat	ole):		@ Time	Duplicate	I.D. (if app	olicable):	
FB I.D. (if applicab	ole):		@ Time	Analyzed			100000000000000000000000000000000000000
D.O. (if req'd):		Pre-purge:		$^{ m mg}/_{ m L}$	Post	-purge:	mg/L
O.R.P. (if req'd):		Pre-purge:		mV		-purge:	mV

WELL ID: MU-1/ SAMPLING DATE(S) COCO1/18	PROBETYPE Westberg
LOCATION: JPZ (1/2	SERIAL NO. FMS 2567 PROJECT: DDC
WATER LEVEL INSIDE CASING: 16613 ATM PRESSURE (PSI): (Start) 4,05 (Finish) 19,07	OPERATOR(S) T. Howy
	WEATHER GEORGE

		Probe to Top Collar	Surface (probe in	Function Te top of collar	ests / Position r) / (lower pro	Sampler be to port)			Sample (probe at sam	Colle	ction Checks port in MP casing)					Field Parame	ters				Sample
Port Number	Run Number	- Arm out / Land Probe	Shoe Out Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe In/ Arm in	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (ps!)	Shoe Out	Port Pressure (psl)	Open Valve	Port Pressure (psl)	Close Valve/ Shoe In	Pressure in MP Casing (psl)	Sample Temp (°C)	SC (µS/cm)	Нq	Turbidity (NTU)	Dissolved Oxygen —(ppm)	ORP (mv)	Sample Time	Sample (D
7		V	V	V	U	V	16351	V	16/153	V		V	163,51	20,4	267	7,06	4	6,73	-71	0730	mw-11-4
3	_ _	V	V	V	V	V	123,58	V	1780	ν	117.88	V	122,58	70,6	409	7,26	2	683			mw-11-3
2	12	V	V	V	V	V	48:69 48:65	レレ	47,59 47,56	レマ	47.59 47.56	V	48.69	alıa	481	7.60	2	6A5	-15	0830	MW-11-2
j	10	V	V	V	V		14,07	1	24,06	'n	24,06	V	1407		1068	773	1	7,05	141	(930)	mw-11-1
		V			V		14,06	4	34105	У	24,05	V	14,06								
								$\frac{1}{2}$		1		\dashv			·						
								+		7											
Comm	ents:	TB-	16-0	2f11	180	2105	700														

13-6-050/18© 0700 # 7 MS / MS p の M W - // - Z Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

WELL ID: MW-12	PROBETYPE (1) RS there
SAMPLING DATE(S) OS/01/18 LOCATION: DOL	SERIAL NO. EM 5 2502
WATER LEVEL INSIDE CASING: 158155	PROJECT: SPC OPERATOR(S) 1 HO CA A S
ATM. PRESSURE (PSI): (Start) 14, 08 (Finish) 14,10	WEATHER CLEAN

		Probe to Top Collar	Surface (probe in	Function To top of collar	sts / Position) / (lower pro	Sampler be to port)			Sample ((probe at samp	Colle	ction Checks port in MP casing)				Fleld Parame	ters				Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 pst)	Close Valve/ Shoe in/ Arm in	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psl)	Close Valve/	Pressure in MP Casing (psl)	Sample Temp (°C)	SC (µS/cm)	Нq	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5]	V_{-}	V	V	V	V	188,04	٧	173,30	V	173.30	V	188,04	25.1	470	8,08		675	145	1030	mw-12-5
4	1	V	V	V	V	V	13872	!!	132,70		132.70	V	138,72	21,6	493	Bilb	1	6,86	199	1105	mw-12-4
3	ノス	V	V	V	V		9990.6 9016i	V	84.74	V	84174	V	90,65 90.61	21.9	445	8129		7,31	194	1140	mw-12-3
2	1	V	V	V	V	\mathcal{V}	55,56	}			50,99		55,56	33.0	526	7.93	10	713	158	わるか	- MW-12-2
			V	V	V	V	14,07	V	14,05	V	14105				is Dix				Tak-es		MN-12-1
								\downarrow													
\dashv								-													
1								1		1											
Comm			110				17-3	\perp		\perp											

Comments: ins/ms/) @ MW-17-3
EB-7-08018@ 300

Project #: /5/07	12 C-	<u> </u>		Site:	PL				
Sampler: #/				Date: O	8/02	18			
Well I.D.: MW	-13		White-many	Well Dia	ameter: 2	2 3	4	6	8
Total Well Depth (TD):			Depth to	Water (D	DTW):			
Depth to Free Prod	uct:			Thicknes	ss of Free	Produc	t (fee	t):	
Referenced to:	PVC	Grade		Flow Ce	ll Type				YSI 556
DTW with 80% Re	charge	[(Height of	Water Col	umn x 0.2	20) + DT	W]:			
Purge Method:	Positive	ble Bailer Air Displacement Submersible		Waterra Rediflo pump raction Pump		Sam	npling M	Other:	Bailer Disposable Bailer Extraction Port Dedicated Tubing
(Gals.) X 1 Case Volume S	pecified V		Gals	s.	1" 2"	0.04 0.16 0.37	4" 6" Other		0.65 1.47 radius ² * 0.163
Temp Time (°F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/l	1		s. Rem	oved	Observations
-Unah	le T	o acces	\$5 du?	e to c	enstru	1 0 170	<u>n -</u>		
	1								
	1) (<u> </u>						
	 	Sang	ple	alce	4	\Rightarrow	·	******	
								2	
Did well dewater?		Yes	No		actually e	vacuate	ed:		
Sampling Date:			Sampling	Time:	· · · · · · · · · · · · · · · · · · ·	Dep	th to	Wate	r:
Sample I.D.:				Laborato	ory:				
Analyzed for:		****				Othe	r:		
EB I.D. (if applicat	ole):		@ Time	Duplicat	e I.D. (if a	applical	ole):		
FB I.D. (if applicat	ole):		@ Time	Analyzed	d for:				- 100000
D.O. (if req'd):		Pre-purge:		mg/L	F	Post-purg	ge:		$^{mg}\!/_{\!\mathrm{L}}$
O.R.P. (if req'd):		Pre-purge:		mV	F	Post-purg	ge:		mV

WELL ID: MW-14	PROBE TYPE (NOS HOUX
SAMPLING DATE(S) 67/24/19	SERIAL NO. EWS 2502
WATER LEVEL INSIDE CASING: 192.76	PROJECT: SPC
ATM PRESSURE (PSI): (Start) 14, 0) (Finish) / 403	WEATHER CLEON

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position	Sampler be to port)					ction Checks port in MP casing))			, 1	Field Parame	eters	7.44	1800		Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valvo/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psl)	Shoe Out	n Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
5	i.	V	V	V	1	V	170,39	V	155,26	V	155,26	V	170,39	20,6	347	7,04	1.	611	205	0730	mw-14-5	
4	1			V	V	V	132.79	V	119,04	ν	119,04	V	132,79	21,6	697	7.00	2	645	221	0750	MW-14-4	
3	リス	V	V	/	V	V	101,26 101,23	V	86.98 86.97	V	86,98 86,97	V	101,26	217	1115	7.45	1-	6.73	180	0830	mw-14-3	
2	1	V	V	V	V		55.75	V	41,54	V	41,54	V	55,75	23.9	1212	7,54	_3_	5.96	163	0905	mw-14-2	
i	1	V	V	V	V	V	21162	Y	14,18	V	14,18	V	21.62	-Bri	is Dry	/ - /\	lo Sa	uple	Tik	en—		
											Tu								WYIOTA			
	_																					
		.115-																				

Comments: TB-2-072418@0700

MC/MED GMW-14-3

Project #:	8072	20-	1441		Site: 7	PL								
Sampler:	14				Date: 0	8/02	118							
Well I.D.:	mw-	15		**************************************	Well Diam	eter: 2	3 4 6	8						
Total Well	Depth (T	(D):	74,00		Depth to W	Vater (DTV	W): 36,14	,						
Depth to Fr	ee Produ	ict:			Thickness of Free Product (feet):									
Referenced	to:	PVC	Grade		Flow Cell	Туре		YSI 556						
DTW with	80% Rec	charge	[(Height of	Water Col	umn x 0.20) + DTW]	: 43,71							
Purge Method:		Positive	ole Bailer Air Displacement Submersible		Waterra Rediflo pump Praction Pump	æ	Sampling Method: Other:	Bailer Disposable Bailer Extraction Port Dedicated Tobing						
_3681	M						iplier Well Diameter	Multiplier						
21.7	Gals.) X	3 ecified V	$\frac{1}{\text{columes}} = \frac{\sum_{\text{Calcu}}^{L}}{\text{Calcu}}$	Galstated Volume	3. 1 2 3	" 0.16	4" 6" Other	0.65 1.47 radius ² * 0.163						
			Cond.					/						
Time	Temp (°F)	pН	(mS/cm or aS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations						
0744	6617	7.17	563	9	1,26	134	# 812	36,22						
0748	6416	7,31	561	7	1.30	125	W 824	36,25						
0752	64,5	7.34	560	6	1.33	122	2436	36,29						
0756	6419	7,35	573	5	1.32	117	M3/248	36,38						
0800	65.1	7,35	575	5	1.34	116	60	36,40						
<u>805</u>	65,2	7,36	578	5	1.33	114	75	36,41						
								·						
Did well de	water?		Yes C	No	Gallons act	tually evac	cuated: 75)						
Sampling D	ate: 处	1021	18	Sampling	Time: 🔿 🤉	366	Depth to Water	r: 36,41						
Sample I.D.	: mu	-15			Laboratory	: BC								
Analyzed for	r: Se	e C	C. O. C	-			Other:							
EB I.D. (if a	pplicabl	le):		@ Time	Duplicate I	.D. (if app	olicable):							
FB I.D. (if a	pplicabl	.e):		@ Time	Analyzed f	or:								
D.O. (if req'	d):		Pre-purge:		$^{ m mg}/_{ m L}$	Post	-purge:	$^{ m mg}/_{ m L}$						
O.R.P. (if re	q'd):		Pre-purge:		mV	Post	-purge:	mV						

Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112 (800) 545-7558

*ms/msD

1				*** *** ***	<u> </u>				
1	807	20-	AHL	···	Site:	JF	2		
Sampler:	+ JA	···			Date: (<u>)</u>	3/02/	118	
Well I.D.:	MW	-16	· · · · · · · · · · · · · · · · · · ·		Well D	ian	neter: 2	3 4 6	8
Total Well I	Depth (TD):	284,73	<u> </u>	Depth	to V	Water (DT	W): 279, (45
Depth to Fre		uct:	•		Thickn	ess	of Free Pr	roduct (feet):	
Referenced	to:	PVC	Grade		Flow C				YSI 556
DTW with 8	30% Re	charge	[(Height of	Water Co	lumn x (0.20)) + DTW]		
Purge Method:		Bailer Disposa Positive	able Bailer Air Displaceme Submersible	2" 1	Water Rediflo pum raction Pum	ra ip ip well	Diameter Muli	Sampling Metho Othe	Disposable Bailer Extraction Port Dedicated Tubing
(G	ials.) X		-			2	l" 0.04 2" 0.16	4" 6"	0.65 1.47
1 Case Volume		ecified V	olumes Calc	Gal: ulated Volume		3	3" 0.37	Other	radius ² * 0.163
Time	Temp (°F)	pН	Cond. (mS/cm or	Turbidity (NTUs)	D.O. (mg	₂ /L)	ORP(mV)	Gals. Removed	d Observations
	<u> (</u>	rak	Surp	e Ta	ech				
									
	····								
1050 j	78.1	7.78	741	21000	2,0	5	165		
Did well dew	ater?		Yes	No	Gallons	act	tually evac	uated:	
Sampling Da	te: 0 <i>}</i>	102/	18	Sampling	Time:	0	5ð	Depth to Wate	er: 279,45
Sample I.D.:	mu	٤ -ر	>		Laborate	ory:			
Analyzed for	See	$C_{i}C_{i}$	0.0					Other:	
EB I.D. (if ap	plicabl	e):		@ .	Duplicat	e I	.D. (if app		
FB I.D. (if ap				(a) T	Analyze				
D.O. (if req'd)			Pre-purge:	L	mg/I			purge:	mg/L
O.R.P. (if req	'd):		Pre-purge:		mV	<u> </u>		purge:	mV

ud-	FIELD L	DATA LOG SHEET
WELL ID: 150 MW-17		PROBE TYPE Westby
SAMPLING DATE(S) 07/30 / /8	S. S.	SERIAL NO. EMS 2502
LOCATION: SPL		PROJECT: JPC
WATER LEVEL INSIDE CASING: 208,06		OPERATOR(S) T. Hars
ATM. PRESSURE (PSI): (Start) 4,07 (Finish) 4,05	* *	WEATHER Clary
	>	

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position	Sampler be to port)					ction Checks port in MP casing)				,	Teld Parame	ters	V 40 (11 p) A			Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (ps!)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	Нq	Turbidity (NTU)	Dissolved Oxygen (npm) MG	ORP (mv)	Sample Time	Sample ID	(A)
4	1 2	V		1/	V 1/	1			144,84 144,83			V	178.56	261	751	7,76	5	6,96	120	1200	mw=17-4	
3	1	V		V	V	V			,				129,35		914	7.96	3	6.43	151	1251	mw-17-3	2
2	١	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				V	86169				_		86,69		,	, ,	_	,			mw-17-2	
	,															210 1			100		11111	
																					1000	
							7												1-12-11-11-11-11-11-11-11-11-11-11-11-11			
										-												
								\int														
]													·	***************************************			

WELL ID: MW - 18	PROBE TYPE (1) les than
SAMPLING DATE(S) 67/35 //8	SERIAL NO. EMS 2502
UCCATION: JPC. WATER LEVEL INSIDE CASING: 293,83	PROJECT:) PC OPERATOR(S) T. Hrang
ATM PRESSURE (PSI): (Start) /4,02 (Finish) 14,04	WEATHER Clear

		Probe to Top Collar	Surface (probe in	Function Te top of collar	ests / Position r) / (lower pro	Sampler					ction Checks port in MP casing)	****		1	Field Parame	ters		*****		Sample	\neg
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (\$ psi)	Close Valva/ Shoe in/ Arm in	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe in	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	ρН	Turbidity (NTU)	Dissolved Oxygen —(ppm)	ORP (mv)	Sample Time	Sample ID	
5	4	V	V	1	V	~	188,57	V	174,12	4	74112	1	188,57	22,6	266	8167	2	6.77	-45	0920	mw-18-5	
4	j			V	V	V	136,28	V	126.12	V	126/2	V	13628	23.5	403	8:09	2	6.85	143	0950	MW-18-4	
3	1			V	V	V	75,61	V	71,54	V	71,54	V	75.61	23,2	514	7,99	-1-	6.73	145	1015	mw-18-3	
2			V	V	V	APT	35,17 34,37	V	33,38	V	33,38	V	34,37	a4.9	519	7,84	2	6.25	143	1045	mw-18-2	
																						1
								-														
								1														

Comments:

WELL ID: 7 W - 19	PROBE TYPE () LOS + HOS
SAMPLING DATE(S) 07/23 / 18	SERIAL NO. EMAS 2562
LOCATION: Pascole na Water Plant	PROJECT: SPI
WATER LEVEL INSIDE CASING: 139,66	OPERATOR(S) 1. Hoave
ATM. PRESSURE (PSI): (Start) 14,04 (Finish) 14,07	WEATHER Clear
• •	

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position) / (lower pro	Sampler be to port)					ction Checks port in MP casing)					Field Parame	ters		····	T	Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psl)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psl)	Close Valve/	Pressure in MP Casing (psl)	Sample Temp (^o C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	V	V	<u> </u>		V	171,26	Y	193,81	V	133,81	ン	171.26	26,9	667	707		M5/2	219	1140	mw-19-5
4		V	V	V	V		147,45	V	110,85	V	110,85	V	147.45	25,6	649	7.61	2	6.59	227	1220	mw-19-4
3	1	V	, V	V	V	V	124.91	V.	95,18	V	95.20 95.18	V V	124,91	27,3	809	7,60					mw-19-3
2)			V			90.98		61.66	_L			90,98	24.3	1115	7,62	3	C0105	176	1315	MW-19-2
1	l		V	V			59,77	V	32112	V.	\$112	V	59,77	27.1	002	7,83	3	6.73	1		mw-19-1
										1											
_																					
	1							$\frac{1}{1}$		-		\dashv									

WELL ID: MW-ZO	PROBETYPE I Was flow	
SAMPLING DATE(S) 07/23/18	SERIAL NO. FWS 2502	
LOCATION: Church Partity Lat WATER LEVEL INSIDE CASING: 239,83	PROJECT: TPL	
ATM. PRESSURE (PSI): (Start) 17,06 (Finish) 14,08	OPERATOR(S) 1. HOCKLY WEATHER CLEVY	

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position) / (lower pro	Sampler be to port)					tion Checks port in MP casing)		***		F	ield Parame	ters	- 10			Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Sheck Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psl)	Shoe Out	Post Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen —(ppm)	ORP (mv)	Sample Time	Sample ID
2	1	V	V	V	V	V	306,07	V	536 pg	V	303.34	V	306,07	20.4	297	7,45	6	4,02	-37	0810	mw-20-5
4	1	V	V	V	V	1	218170	V	204,63	V	20403	V	218.70	22.4	313	8,51	3	6.81	721	840	mw-20-4
3	1	V		V		V	159,15	V	146,51	V	146,51	V	159,15	22.O	<i>3</i> 23	8,34	3	6:33			mw <i>-2</i> 0-3
2	-باز	V	·V	V			95,19 25,16	V	79,10	V	79,10	V	85,19	2214	613	7,54					MW-20-2
1	1	\/									79,09		85,16			7					A n
	_	V					14,09		14,14	<u> </u>	14,14	V	14,09	-Por	-isp	ry -	No	Sery	le I	ken-	MW-20-1
! 																					
								+		+											
										-											

MS/MSD @ MW-20-2

WELLID: MW-21	PROBE TYPE Westbul
SAMPLING DATE(S) 67/26 / 18 LOCATION: 5PL	PROJECT: SPL
ATM. PRESSURE (PSI): (Start) (4, 6) (Finish)	OPERATOR(S) T. Horan
•	

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position r) / (lower proi	Sampler be to port)		1			tion Checks oort in MP casing)		****		F	ield Parame	ters				Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Vatve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	138,65	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	РĦ	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
5		V	V	V	i/	1	130.14	ľ	130,65		103.65	-1		24.3	<i>9</i> 35	7,95	3	6,46	176	1045	mw-21-5	
4)_		/	V	~	V	103.55	5 V	103,82	V	103,8R	V	103,55	23.1	909	7.65	2	5,67	133	1020	mw-21-4	
3	12	V	V	V	V	V	73,49 73,41		73,99 73,98	V	73,99 73,98	V	73,49 73,41	¥5.6	1239	756	2	6,73	161	1115	mw-21-3	
2	i	V	V	V	V	V	39,04	V	39,95	V.	39,95		,	<i>表</i> 3	1366	7,79	2	6.31	152	1200	mw-21-2	
3	(V		V	W	14,09	V	14,12	1	14,12	V	14.09		is Pry			esyste	Take		mw 21-1-	
							-14			1												-
 										1												
Comm		inas	// 2				1-30		,	1												

EB-4-0786[8@) 1220

		WELL ID:	mv	V-23							PROBE TYPE	Olla	es fbo	1					
		SAMPLING	DATE(S)	7/20	118				_		SERIAL NO.	EMS	8502	_			*****	110-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	-
		LOCATION:	190		15.94				_		PROJECT:	JPL							•
					05 (Finish)	III	17		-		OPERATOR(S)		toas	う —		V			_
		7111ETTES	30NE (F3I).	(Start) / //	(Finish)	170	0/				WEATHER (Jew	-					****	
Probe to	Illar (probe in top of collar) (lower probe to port) (probe at sampling port in MP casing) Field Parameters																		
Top Collar	(probe in	top of collar	sts / Position) / (lower pro	be to port))			I	Field Parame	ters				Sample
- Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port Arm Out Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen _(ppm) MSJ2	ORP (mv)	Sample Time	Sample (D
V	V	V	V	V	91,93	V	86152	V	86.52	V	91.93	214	452	6,80	3	6.33	240	0800	MW-22-3
V	V	V	V	V	65.62	V	60,44	1	60,44	V	65,62	21.5	1022	7.1/2	2				
			. /	. /			/	\vdash	20,7,7				UNA	"10		(0)01/	20)	0830	MW-22-2
V	V	V_{\perp}	V		18,66	V	24,77	V	24,77	V	28 66	21.10	1199	740	0	6.65	-21 C/	10000	2000 000 1
-i/	V	V	1/	V	28,55	V	24.76	V	24.76	2	28.66 28.55	AIL	1110	770	<u>d</u>	600	200	0900	mw-22-1
							<u> </u>		-11/6		1000 J			-					
						П													
											77.11.								
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										-									
						7		\dashv		\dashv									
						+		\dashv		\dashv									
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112-	7-0	1001	10	010	<u>ي</u>														
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Comments:

WELL ID: MW-23	PROBE TYPE Wes How
SAMPLING DATE(S) 07/3//8	SERIAL NO. EMS 250 Z
WATER LEVEL INSIDE CASING: 138,76	PROJECT: Throwing
ATM PRESSURE (PSI): (Start)/9,08 (Finish) 19,09	WEATHER (Leave

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position) / (lower prol	Sampler be to port)		***			tion Checks port in MP casing)		**		F	ield Parame	ters	······································			Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Appty Vacuum (5 psl)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	Нq	Turbidity (NTU)	Dissolved Oxygen —(ppm) MG/L	ORP (mv)	Sample Time	Sample (D	
4	1	V	V			1	148.49	V	135,06	V	135,06	V	148,49	2113	454	6,77	2	6179	205	0745	mw-23-4	
3	1	V	V	V	1		93,85	V	/ 83,72	V	83,72	V	93,85	<i>3118</i>	545	704	2	643			mw-23-3	}
2]_	V	V	V	V	V	5,89		_				65,89		•	7,30	1	6.85	202	0850	MW-23-Z	_
	1	V	V -V	V	V	V	30,97 30,94	7	82,58 22,55	V	23,59 22,55	V	30,97 30,94	2413	1221	7160	1	7.10	187	0930	MW-23-1	
	3	V		V	V	~	30,85	M	22,52	V	22,52	V	30,85								117	
																						_
								+		-												\exists
								1		1												
										+												\dashv
Comn		TB-1		721																		

WELLID: MW-ZY	PROBETYPE Westher	
SAMPLING DATE(S) 7/30 //8	SERIAL NO. EMS 2502 PROJECT: TOL	
WATER LEVEL INSIDE CASING: 211,48	OPERATOR(S) T, Hoary	
ATM. PRESSURE (PSI): (Start) 14,04 (Finish) 14,06	WEATHER CLECK	

		Probe to Top Collar	Surface (probe in	Function Te top of collar	sts / Position) / (lower prol	Sampler be to port)					ction Checks port in MP casing)				F	ield Parame	ters				Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe in/ Arm in	Locate Port/ Arm Out/ And Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (^o C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
4	1	\checkmark	V	V	V	V	164,60	V	141,32	V	141.32	V	164,60	218	225	7,47	3	5,31	-109	0745	mw-24-4
3)	~	V	V	V	V	113,14	V	93,09	V	93,09	V	113,14,	2219	417	7.45	2	6.05	-124	0810	mw-24-3
2	1	V	V	V	V	V	85,80	V	66.67	V	66,67	レ	85,80	23,3	587	7,39	2	6,34	108	0840	mny-24-2
	ース	Y	7		1	V	45.02	V	28,50	7	38,50 88,48	V	45,02	<i>4713</i>	756	7,64	0	610	147	0900	mw-24-1
	3	V	V	V	V	1	4498	V	88:46		28.46	V	44.98					-			
								$\frac{1}{1}$													
								+		1											

DIP-3-3018@MW-ZY-1@69/0

WELLID: MW-25	PROBETYPE Wester
SAMPLING DATE(S) 07/24/18	SERIAL NO. EMS 3502
LOCATION: JPL	PROJECT: JPL
WATER LEVEL INSIDE CASING: 244, 90	OPERATOR(S) To Hoary
ATM PRESSURE (PSI): (Start) 1406 (Finish) 14,09	WEATHER (lew

		Probe to Top Collar	Surfac (probe i	e Function Te n top of colla	ests / Positior r) / (lower pro	Sampler					ction Checks port in MP casing)					Field Parame	ters				Sample
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe In/ Arm in	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (⁰ C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5		V	V	V	1	V	22/195	V	206,80	V	206,80		221.95	95,3	409	8.91	a	mg/L 9,10	-111	1045	MW-25-5
4)	V	V	V	V	V	187,26	4	171.82	V	171,82	V	18726	35.S	7762	202	2	7,05	130	ļ.,,,	MW-25-4
3	1	1	V		V	V	130,97		_				130.97			805	1	6183	135	1140	mw-25-3
2	-	V	V		V		96,34	4	87.95	V	87.95	V	96,34	25.9	717	7,95		6.71	139	1205	MW-25-2
V	12	V	V	V	V	V	67.95 67.90		61,51 61,50	V	61,51	V	67.95, 67.90	1716	969 -	793	1	6.80	53	1240	MW-25-(
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-	_							+		+											
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L			7							\perp											

Comments: DUP-2- 3018 @ MW-25-1 @ 1250

EB-2-072418@ 1310

Probe to Top Collar

Run Number

	WATER LEV	/EL INSIDE C	CASING: 6	6 25/18 4/82 4/0 (Finish)		lila		- - -			SPL	es H 5 a S trave	***************************************					- - - -
Surface probe in	Function Te	sts / Position) / (lower pro	Sampler be to port)					ction Checks port in MP casing)				Field Parame	ters	70331			Sample
Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psl)	Close Valve/ Shoe in/ Arm in	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe in	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	рН	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
				82,04		55,11	V	55,11	V	82,04	28.8	821	7188	2	6.85	137	1220	mw-26-Z
	V V		V V	47.59 47.50	V	30.94 30.98	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	20,94 20,92		47,59 47.50	27,5	850	7,59		6.3.3	97	1245	mw-26-1
-07	725 1	8 (a)	1300															