

ATTACHMENT 4: FIELD LOGS

This attachment contains the groundwater sample collection field logs for the relatively shallow standpipe monitoring wells (MW-1, MW-5 through MW-10, MW-13, MW-15, and MW-16), as well as the field data sheets for the Westbay™ multiport wells (MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-26). Groundwater sample collection for the 4th Quarter 2020 sampling event was conducted by Blaine Tech Services, Inc.

Note: During the fourth quarter 2020 the relatively shallow standpipe wells MW-5, MW-6, MW-7, MW-13 and MW-16 and the uppermost sampling ports (i.e., Screen 1) in the multi-port monitoring wells MW-12, MW-14, MW-17, MW-18, MW-20, and MW-21 were dry, and no samples were collected.

WELL MONITORING DATA SHEET

Project #: <u>201023-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/04/20</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth (TD): <u>110.00</u>	Depth to Water (DTW): <u>40.60</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>54.48</u>	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other: Ded R-FZ Dedicated Tubing

Other:

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

<u>45.2</u> (Gals.) X	<u>3</u> Specified Volumes	<u>=</u>	<u>135.6</u> Gals. Calculated Volume
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Time	Temp (°F or °C)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW Observations
1110	17.6	7.41	619	3	1.95	112	24	41.31
1122	17.4	7.35	626	2	1.80	101	48	41.34
1133	17.3	7.33	628	2	1.73	95	70	41.36
1212	17.4	7.34	629	2	1.65	91	94	41.38
1224	17.5	7.34	631	2	1.61	90	118	41.39
1233	17.5	7.33	630	2	1.57	88	136	41.40

official
resume
purse

Did well dewater? Yes (No) Gallons actually evacuated: 136

Sampling Date: 11/04/20 Sampling Time: 1235 Depth to Water: 41.40

Sample I.D.: MW-1 Laboratory: BC

Analyzed for: Other: See C.O-C

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): DOP-6-4620 @ 1245

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-3
 SAMPLING DATE(S): 11/04/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 183.62
 ATM. PRESSURE (PSI): (Start) 14.09 (Finish) 14.11

PROBE TYPE: Westbay
 SERIAL NO.: EM52502
 PROJECT: JPL
 OPERATOR(S): J. Hoenig
 WEATHER: Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters						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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	218.74	✓	217.87	✓	217.97	✓	218.75	16.2	720	6.91	43	7.49	150	0735	MW-3-5
4	1	✓	✓	✓	✓	✓	177.20	✓	177.24	✓	177.25	✓	177.26	17.7	553	7.03	63	7.10	148	0750	MW-3-4
3	1	✓	✓	✓	✓	✓	84.83	✓	85.63	✓	85.88	✓	84.81	19.8	514	6.87	7	6.93	147	0818	MW-3-3
2	1	✓	✓	✓	✓	✓	43.76	✓	47.01	✓	47.01	✓	43.79	22.6	509	7.20	7	6.83	133	0850	MW-3-2
1	1	✓	✓	✓	✓	✓	14.22	✓	16.00	✓	16.15	✓	14.24	23.7	413	7.24	17	6.55	126	0920	MW-3-1
	2	✓	✓	✓	✓	✓	14.18	✓	16.02	✓	16.00	✓	14.25								

Comments: EB-8-110420@0950

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-4
 SAMPLING DATE(S): 11/02/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 152.33
 ATM. PRESSURE (PSI): (Start) 14.15 (Finish) 14.16

PROBE TYPE: UW-4
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): T. Hays
 WEATHER: Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	174.14	✓	169.72	✓	169.72	✓	174.14	17.9	742	7.01	3	6.33	150	0740	MW-4-5
4	1	✓	✓	✓	✓	✓	119.52	✓	116.92	✓	116.92	✓	119.52	21.0	634	6.94	7	6.05	143	0810	MW-4-4
3	1	✓	✓	✓	✓	✓	88.51	✓	86.60	✓	86.60	✓	88.51	20.0	638	7.10	9	6.44	132	0835	MW-4-3
2	1	✓	✓	✓	✓	✓	52.52	✓	51.72	✓	51.72	✓	52.52	18.3	829	7.03	5	6.83	135	0905	MW-4-2
1	1	✓	✓	✓	✓	✓	14.15	✓	15.69	✓	15.69	✓	14.15	18.5	383	7.22	8	8.80	131	0935	MW-4-1
	2	✓	✓	✓	✓	✓	14.15	✓	15.75	✓	15.75	✓	14.15								

Comments: TB-6-110220 (C) 0700

WELL MONITORING DATA SHEET

Project #: <u>201023-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/04/20</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 ____
Total Well Depth (TD): <u>Dead pump</u>	Depth to Water (DTW): <u>133.51</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other: _____

	(Gals.) X _____ = _____ Gals.	
I Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
<u>- Insufficient water to Purge or Sample -</u>								
<u>- No Sample Taken -</u>								

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ Laboratory: _____

Analyzed for: _____ Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>201023-141</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/04/20</u>
Well I.D.: <u>MW-6</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 ____
Total Well Depth (TD): <u>237.96</u>	Depth to Water (DTW): <u>DRY</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Bailer Disposable Bailer Positive Air Displacement Electric Submersible Other: _____	Waterra 2" Rediflo pump Extraction Pump Other: _____	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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_____ (Gals.) X _____ I Case Volume Specified Volumes	=	_____ Gals. Calculated Volume
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Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
								- Well is Dry -
								- No Sample Taken -

Did well dewater?	Yes	No	Gallons actually evacuated:
Sampling Date:	Sampling Time:	Depth to Water:	
Sample I.D.:	Laboratory:		
Analyzed for:	Other:		
EB I.D. (if applicable):	@ Time	Duplicate I.D. (if applicable):	
FB I.D. (if applicable):	@ Time	Analyzed for:	
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

WELL MONITORING DATA SHEET

Project #: <u>201023-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/04/20</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth (TD): <u>267.47</u>	Depth to Water (DTW): <u>DRY</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra 2" Rediflo pump Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\frac{\text{I Case Volume (Gals.)} \times \text{Specified Volumes}}{\text{Calculated Volume}} = \text{Gals.}$
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Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
- Well is Dry -								
- No Sample Taken -								

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ Laboratory: _____

Analyzed for: _____ Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>201023-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/05/20</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>205.00</u>	Depth to Water (DTW): <u>76.03</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

Purge Method: Bailer Disposable Bailer Positive Air Displacement Electric Submersible Water 2" Rediflo pump Extraction Pump Other: REFZ

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing (HH) Other:

(Gals.) X _____ = _____ Gals.
 I Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
—								<u>Pump did not work, collect grab sample per client's request</u>
<u>1015</u>	<u>21.0</u>	<u>7.11</u>	<u>873</u>	<u>>1000</u>	<u>5.78</u>	<u>69</u>	—	—

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: 11/05/20 Sampling Time: 1015 Depth to Water: 76.03

Sample I.D.: MW-8 Laboratory: BC

Analyzed for: see COC See C.A.C

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 201023-AH1	Site: JPL
Sampler: HH	Date: 11/04/20
Well I.D.: MW-9	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 68.00	Depth to Water (DTW): 34.92
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 41.53	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other: DalREFZ Dedicated Tubing
 Other:

$$\frac{21.6 \text{ (Gals.)} \times 3}{1 \text{ Case Volume}} = 64.8 \text{ Gals.}$$
 Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
1325	21.9	7.51	521	291	2.92	103	10	35.50 37.50
1331	22.4	7.46	492	50	2.10	95	22	35.51 37.51
1336	22.6	7.40	483	41	2.01	93	32	35.5 37.51
1342	22.7	7.35	479	39	1.95	90	44	37.51
1347	22.7	7.33	477	36	1.90	88	54	37.51
1353	22.8	7.31	473	37	1.83	86	66	37.51

Did well dewater? Yes No Gallons actually evacuated: 66

Sampling Date: 11/04/20 Sampling Time: 1355 Depth to Water: 37.51

Sample I.D.: MW-9 Laboratory: BC

Analyzed for: Other: See C.O.C

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): DUP-7-4020 @ 1405

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>201023-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/05/20</u>
Well I.D.: <u>MW-10</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth (TD): <u>Decl Pump</u>	Depth to Water (DTW): <u>149.63</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u> </u>	

Purge Method: Bailer ~~Waterra~~ Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other _____ Dedicated Tubing

Other:

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

_____ (Gals.) X	_____	=	_____ Gals.
1 Case Volume	Specified Volumes		Calculated Volume

Time	Temp (°F or <u>(°C)</u>)	pH	Cond. (mS/cm or <u>µS/cm</u>)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
<u>08</u>			<u>6</u>	<u>Grab Sample</u>			<u>—</u>	<u>—</u>
<u>0825</u>	<u>19.2</u>	<u>6.87</u>	<u>518</u>	<u>>1000</u>	<u>4.67</u>	<u>-67.2</u>	<u>—</u>	<u>—</u>

Did well dewater? Yes (No) Gallons actually evacuated:

Sampling Date: 11-05-20 Sampling Time: 0825 Depth to Water: 149.63

Sample I.D.: MW-10 Laboratory: BC

Analyzed for: (Other) see COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-11
 SAMPLING DATE(S): 11/03/20
 LOCATION: SPL
 WATER LEVEL INSIDE CASING: 205.77
 ATM. PRESSURE (PSI): (Start) 14.07 (Finish) 14.09

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2802
 PROJECT: SPL
 OPERATOR(S): J. Hagan
 WEATHER: Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm) mg/L	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	204.53	✓	178.64	✓	178.64	✓	204.53	18.8	329	7.49	8	6.90	116	0800	MW-11-5
	2	✓	✓	✓	✓	✓	208.55	✓	178.62	✓	178.62	✓	208.55								
4	1	✓	✓	✓	✓	✓	156.02	✓	151.70	✓	151.70	✓	156.02	12.4	337	7.39	2	7.39	-49	0725	MW-11-4
3	1	✓	✓	✓	✓	✓	114.93	✓	110.39	✓	110.39	✓	114.93	19.9	254	7.57	2	7.10	38	0845	MW-11-3
2	1	✓	✓	✓	✓	✓	41.19	✓	42.12	✓	42.12	✓	41.19	21.2	445	7.61	3	6.90	38	0915	MW-11-2
1	1	✓	✓	✓	✓	✓	14.10	✓	20.53	✓	20.53	✓	14.10	21.3	602	7.46	2	6.85	111	0945	MW-11-1
	2	✓	✓	✓	✓	✓	14.11	✓	20.51	✓	20.51	✓	14.11								

Comments: TB-7-110320@0700

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-12
 SAMPLING DATE(S) 11/02/20
 LOCATION: JPC
 WATER LEVEL INSIDE CASING: 133.82
 ATM. PRESSURE (PSI): (Start) 14.13 (Finish) 14.07

PROBE TYPE Weather
 SERIAL NO. EIMS 2502
 PROJECT: JPC
 OPERATOR(S) 11/02/20
 WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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 / Seal 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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
5	1	✓	✓	✓	✓	✓	199.41	✓	155.06	✓	154.96	✓	199.43	20.0	443	7.32	2	8.35	140	1050	MW-12-5	
4	1	✓	✓	✓	✓	✓	150.56	✓	124.57	✓	124.35	✓	150.58	19.4	478	7.43	3	7.11	152	1115	MW-12-4	
3	1	✓	✓	✓	✓	✓	101.19	✓	79.08	✓	79.10	✓	101.20	19.2	471	7.52	3	5.75	151	1140	MW-12-3	
2	1	✓	✓	✓	✓	✓	66.25	✓	45.47	✓	45.44	✓	66.18	19.4	591	7.47	3	6.55	155	1217	MW-12-2	
1	1	✓	✓	✓	✓	✓	21.09	✓	14.29	✓	14.20	✓	21.09	-Port is Dry - No Sample Taken-								

Comments: FB-6-110220@ 1315

WELL MONITORING DATA SHEET

Project #: 201023-HA1	Site: JPL
Sampler: HH	Date: 11/04/20
Well I.D.: MW-13	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 234.26	Depth to Water (DTW): DRY
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	<input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	<input type="checkbox"/> Waterra <input type="checkbox"/> 2" Rediflo pump <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing <input type="checkbox"/> Other: _____
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_____ (Gals.) X _____	= _____ Gals.
1 Case Volume	Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
								- Well is Dry -
								- No Sample Taken -

Did well dewater?	Yes	No	Gallons actually evacuated:
Sampling Date:	Sampling Time:	Depth to Water:	
Sample I.D.:	Laboratory:		
Analyzed for:	Other:		
EB I.D. (if applicable):	@ Time	Duplicate I.D. (if applicable):	
FB I.D. (if applicable):	@ Time	Analyzed for:	
D.O. (if req'd):	Pre-purge:	mg/L	Post-purge: mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge: mV

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-14
 SAMPLING DATE(S): 10/27/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 194.75
 ATM. PRESSURE (PSI): (Start) 14.12 (Finish) 14.10

PROBE TYPE: Westbay
 SERIAL NO.: EM52502
 PROJECT: JPL
 OPERATOR(S): T. Hays
 WEATHER: Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	169.38	✓	149.15	✓	149.15	✓	169.38	15.8	938	7.15	2	6.53	139	748	MW-14-5
4	1	✓	✓	✓	✓	✓	132.64	✓	113.00	✓	112.99	✓	132.63	16.7	729	7.08	1	6.59	14.3	816	MW-14-4
3	1	✓	✓	✓	✓	✓	100.33	✓	80.94	✓	80.94	✓	100.33	18.4	1104	6.66	1	4.51	144	855	MW-14-3
	2	✓	✓	✓	✓	✓	100.30	✓	80.92	✓	80.93	✓	100.30							855	MS/MSD
2	1	✓	✓	✓	✓	✓	54.45	✓	35.45	✓	35.45	✓	54.45	21.1	1189	6.99	1	5.39	113	1000	MW-14-2
1	1	✓	✓	✓	✓	✓	20.40	✓	14.15	✓	14.15	✓	20.40	- Port is Dry - No Sample Taken -					MW-14-1		

Comments: TB-2-202720 @ 0700

WELL MONITORING DATA SHEET

Project #: 201023-HH1	Site: JPL
Sampler: HH	Date: 11/05/20
Well I.D.: MW-15	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 69.00	Depth to Water (DTW): 46.21
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type YSI 556
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 50.76	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other: DEDRF2 Dedicated Tubing

14.9 (Gals.) X 3 = 44.7 Gals.
 1 Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	DTW Observations
0720	17.2	7.06	508	7	1.28	-62.2	8	47.16
0728	17.2	7.85	515	4	0.6 ^{0.97}	-106.9	16	47.16
0736	17.3	8.21	517	6	0.86	-143.2	24	47.16
0742	17.2	8.30	516	6	0.83	-152.7	32	47.16
0750	17.2	8.4	516	3	0.77	-165.7	40	47.16
0756	17.2	8.53	517	2	0.74	-176.6	46	47.16

Did well dewater? Yes No Gallons actually evacuated: 46

Sampling Date: 11/05/20 Sampling Time: 0800 Depth to Water: 47.16

Sample I.D.: MW-15 Laboratory: BC

Analyzed for: Other: see COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): DUP-8-4Q2030810

FB I.D. (if applicable): @ Time Analyzed for:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: <u>201023-HH1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>11/04/20</u>
Well I.D.: <u>MW-16</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 _____
Total Well Depth (TD): <u>284.71</u>	Depth to Water (DTW): <u>DRY</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	Flow Cell Type: <u>YSI 556</u>
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method:	Bailer Disposable Bailer Positive Air Displacement Electric Submersible	Waterra 2" Rediflo pump Extraction Pump Other _____	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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_____ (Gals.) X _____	= _____ Gals.
1 Case Volume	Specified Volumes = Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP(mV)	Gals. Removed	Observations
— Well is Dry —								
— No Sample Taken —								

Did well dewater? Yes No Gallons actually evacuated: _____

Sampling Date: _____ Sampling Time: _____ Depth to Water: _____

Sample I.D.: _____ Laboratory: _____

Analyzed for: _____ Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

FB I.D. (if applicable): _____ @ _____ Time Analyzed for: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MD-17
 SAMPLING DATE(S) 10/29/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 209.12
 ATM. PRESSURE (PSI): (Start) 14.00 (Finish)

PROBE TYPE Westbay Sampler
 SERIAL NO. 2502
 PROJECT: JPL Pasadena
 OPERATOR(S) Littencerson
 WEATHER Sunny

Temp: 20.29°C

Port Number	Run Number	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)						Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters						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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
5	1	✓	✓	✓	✓	✓	240.67	✓	179.99	✓	179.72	✓	240.76	28.0	712	8.09	9	6.94	227	1320	17 MD-18-5	
5	2	✓	✓	✓	✓	✓	240.64	✓	180.17	✓	179.76	✓	240.66									
4	1	✓	✓	✓	✓	✓	178.18	✓	128.03	✓	128.05	✓	178.25	23.0	716	8.52	5	6.45	135	1445	17 MD-18-4	
3	1	✓	✓	✓	✓	✓	128.78	✓	95.85	✓	95.85	✓	128.80	20.0	845	8.34	3	5.79	130	1530	MD-17-3	
2	1	✓	✓	✓	✓	✓	86.17	✓	57.80	✓	57.81	✓	86.21	26.7	479	8.53	4	5.84	129	1600	MD-17-2	
1	1	✓	✓	✓	✓	✓	33.97	✓	14.24	✓	14.18	✓	-PORT DRY								1640 MD-17-1	

Comments: EB-4 @ 1540

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-18
 SAMPLING DATE(S): 10/29/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 294.34
 ATM. PRESSURE (PSI): (Start) 14.05 (Finish) 14.02

PROBE TYPE: Westbay Sampler
 SERIAL NO.: 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): L. Henderson
 WEATHER: clear, sunny

Temp: 13.95°C 22-21

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	188.32	✓	160.66	✓	160.60	✓	188.31	15.9	283	7.29	5	7.82	-63	0930	MW-18-5
	4 1	✓	✓	✓	✓	✓	136.05	✓	114.92	✓	114.93	✓	136.07	18.0	421	7.15	3	8.55	79	0900	MW-18-4
	4 2	✓	✓	✓	✓	✓	135.05	✓	114.93	✓	114.92	✓	135.04								
	3 1	✓	✓	✓	✓	✓	75.03	✓	65.98	✓	65.99	✓	75.08	19.9	529	9.42	3	7.19	84	1000	MW-18-3
	3 2	✓	✓	✓	✓	✓	75.04	✓	65.98	✓	65.97	✓									
	2 1	✓	✓	✓	✓	✓	34.04	✓	28.01	✓	28.01	✓	34.10	18.8	424	8.05	13	6.01	93	1115	MW-18-2
	2 2	✓	✓	✓	✓	✓	30.60	✓	28.02	✓	28.02	✓	30.60								
	1 1	✓	✓	✓	✓	✓	14.12	✓	14.11	✓	14.11	✓	14.14	-PORT DRY - NO SAMPLE-							MW-18-1

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-19
 SAMPLING DATE(S) 10/20/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 140.99
 ATM. PRESSURE (PSI): (Start) 14.07 (Finish) 14.12

PROBE TYPE Westbay
 SERIAL NO. EIMS2502
 PROJECT: JPL
 OPERATOR(S) J. Horey
 WEATHER Clear/Windy

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	170.96	✓	117.89	✓	117.89	✓	170.96	19.6	717	7.35	3	6.11	41	1240	MW-19-5
4	1	✓	✓	✓	✓	✓	147.31	✓	94.78	✓	94.78	✓	147.31	18.8	78.5	7.54	2	6.40	80	1310	MW-19-4
3	1	✓	✓	✓	✓	✓	124.68	✓	87.44	✓	87.44	✓	124.68	19.3	917	7.43	1	5.91	86	1335	MW-19-3
	2	✓	✓	✓	✓	✓	124.72	✓	87.43	✓	87.43	✓	124.72	19.3	917	7.43	1	5.91	86	1345	DUP-2-4020
2	1	✓	✓	✓	✓	✓	90.81	✓	54.21	✓	54.21	✓	90.81	19.5	1161	7.15	1	6.33	90	1435	MW-19-2
1	1	✓	✓	✓	✓	✓	59.48	✓	25.55	✓	25.55	✓	59.48	21.7 ^m	502	7.38	1	6.45	64	1500	MW-19-1
	2	✓	✓	✓	✓	✓	58.35	✓	25.54	✓	25.54	✓	58.35	19.16							

Comments: FB-1-102620 @ 1700
SB-1-102620 @ 1450

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MMW-20
 SAMPLING DATE(S): 10/26/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 240.71
 ATM. PRESSURE (PSI): (Start) 14.06 (Finish) 14.09
DTW-240.71

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2912
 PROJECT: JPL
 OPERATOR(S): T. Hoang
 WEATHER: Cloudy / Very Windy

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters						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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	305.64	✓	296.75	✓	296.75	✓	305.64	14.8	382	7.31	2	6.05	-13	0810	MMW-20-5
4	1	✓	✓	✓	✓	✓	218.55 218.55	✓	194.26	✓	194.26	✓	218.55	16.3	567	7.45	3	5.99	-19	0900	MMW-20-4
3	1	✓	✓	✓	✓	✓	158.46	✓	139.04	✓	139.04	✓	158.46	17.2	348	7.69	2	6.35	-77	0935	MMW-20-3
2	1	✓	✓	✓	✓	✓	84.41	✓	73.21	✓	73.21	✓	84.41	17.2	700	7.46	3	6.45	58	1010	MMW-20-2
	2	✓	✓	✓	✓	✓	84.35	✓	73.19	✓	73.19	✓	84.35							1020	DUP-1-4020
1	1	✓	✓	✓	✓	✓	14.11	✓	14.07	✓	14.07	✓	14.11	-Port is Dry - No Sample Taken-							

Comments: TB-1-102610 @ 0700

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-21
 SAMPLING DATE(S) 11/03/20
 LOCATION: SPL
 WATER LEVEL INSIDE CASING: 116.76
 ATM. PRESSURE (PSI): (Start) 14.11 (Finish) 14.13

PROBE TYPE Westbay
 SERIAL NO. EIMS 2302
 PROJECT: SPL
 OPERATOR(S) T. Hoag
 WEATHER Clear

Port Number	Run Number	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)						Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					Sample		
		Probe to Top Collar	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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm) mg/L	ORP (mv)	Sample Time
4	1	✓	✓	✓	✓	✓	103.13	✓	97.77	✓	97.77	✓	103.13	22.0	1047	7.48	3	7.05	112	1105	MW-21-4
	2	✓	✓	✓	✓	✓	103.12	✓	97.74	✓	97.74	✓	103.12								MS/MSD
5	1	✓	✓	✓	✓	✓	124.61	✓	124.60	✓	124.60	✓	124.61	22.5	874	7.50	2	6.96	115	1155	MW-21-5
3	1	✓	✓	✓	✓	✓	72.77	✓	67.86	✓	67.86	✓	72.77	21.9	1231	7.47	3	7.15	128	1220	MW-21-3
2	1	✓	✓	✓	✓	✓	38.39	✓	33.71	✓	33.71	✓	38.39	23.8	1383	7.45	2	6.83	127	1245	MW-21-2
	2	✓	✓	✓	✓	✓	38.35	✓	33.68	✓	33.68	✓	38.35						125	1255	POP-5-4020
1	1	✓	✓	✓	✓	✓	14.08	✓	14.14	✓	14.14	✓	14.09	-Port is Dry - No Sample Taken-							

Comments: EB-7-110320@1345

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-22
 SAMPLING DATE(S) 10/28/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 221.14
 ATM. PRESSURE (PSI): (Start) 14.09 (Finish) 14.10

PROBE TYPE Westbay
 SERIAL NO. EJMS2502
 PROJECT: JPL
 OPERATOR(S) J. Hacy
 WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm) mg/L	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	175.72	✓	157.52	✓	157.52	✓	175.72	16.3	465	7.16	6	4.33	-83	0755	MW-22-5
4	1	✓	✓	✓	✓	✓	123.30	✓	108.41	✓	108.41	✓	123.30	16.6	389	7.15	3	5.91	105	0830	MW-22-4
3	1	✓	✓	✓	✓	✓	89.44	✓	80.11	✓	80.11	✓	89.44	17.3	580	6.97	2	6.05	130	0905	MW-22-3
	2	✓	✓	✓	✓	✓	89.43	✓	80.12	✓	80.12	✓	89.43								MS/MSD
2	1	✓	✓	✓	✓	✓	63.37	✓	54.03	✓	54.03	✓	63.37	17.3	648	7.06	2	5.99	137	1005	MW-22-2
1	1	✓	✓	✓	✓	✓	26.39	✓	18.20	✓	18.20	✓	26.39	18.0	1088	7.13	2	6.03	145	1100	MW-22-1
	2	✓	✓	✓	✓	✓	25.13	✓	18.23	✓		✓									

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-23
 SAMPLING DATE(S) 10/30/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 141.20
 ATM. PRESSURE (PSI): (Start) 14.10 (Finish) 14.09

PROBE TYPE Westbay
 SERIAL NO. 5MS2502
 PROJECT: JPL
 OPERATOR(S) T. Hoag
 WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)					Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm) <i>mg/L</i>	ORP (mv)
5	1	✓	✓	✓	✓	✓	189.93	✓167.48	✓167.48	✓	189.93	18.0	624	7.71	3	5.01	-31	0805	MW-23-5
4	1	✓	✓	✓	✓	✓	147.94	✓125.53	✓125.53	✓	147.94	17.6	424	7.30	2	4.85	122	0835	MW-23-4
	2	✓	✓	✓	✓	✓	147.96	✓125.52	✓125.52	✓	147.96								
3	1	✓	✓	✓	✓	✓	93.17	✓77.46	✓77.46	✓	93.17	19.7	553	7.30	2	5.90	138	0930	MW-23-3
2	1	✓	✓	✓	✓	✓	64.96	✓49.44	✓49.44	✓	64.96	23.2	1100	6.96	3	6.05	145	1000	MW-23-2
	2	✓	✓	✓	✓	✓	64.97	✓49.43	✓49.43	✓	64.97							1010	DUP-4-4620
1	1	✓	✓	✓	✓	✓	30.19	✓16.10	✓16.10	✓	30.19	23.7	757	7.37	2	6.10	123	1100	MW-23-1
	2	✓	✓	✓	✓	✓	29.28	✓16.09	✓16.09	✓	29.28								

Comments: _____

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-24
 SAMPLING DATE(S): 10/28/20
 LOCATION: SP2
 WATER LEVEL INSIDE CASING: 230.21
 ATM. PRESSURE (PSI): (Start) 14.08 (Finish) 14.10

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: SPL
 OPERATOR(S): T. Hoag
 WEATHER: Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID	
5	1	✓	✓	✓	✓	✓	156.45	✓	131.09	✓	131.08	✓	156.75	22.5	239	7.73	3	4.85	-79	1238	MW-24-4	
5	1	✓	✓	✓	✓	✓	209.05	✓	177.70	✓	177.70	✓	209.03	21.3	397	7.66	2	5.35	108	1255	MW-24-5	
	2	✓	✓	✓	✓	✓	208.72	✓	177.77	✓	177.76	✓	208.05									
3	1	✓	✓	✓	✓	✓	107.69	✓	86.62	✓	86.62	✓	104.55	21.9	583	7.91	3	6.15	102	1345	MW-24-3	
							104.55															
	2	✓	✓	✓	✓	✓	104.19	✓	86.65	✓	86.63	✓	104.19							1355	DUP-3-4Q20	1355
																				1355	DUP-3-4Q20	1355
2	1	✓	✓	✓	✓	✓	77.03	✓	60.44	✓	60.44	✓	76.95	22.3	580	7.45	2	6.35	127	1515	MW-24-2	
1	1	✓	✓	✓	✓	✓	36.04	✓	22.20	✓	22.20	✓	36.04	23.1	658	7.67	3	6.65	135	1550	MW-24-1	
	2	✓	✓	✓	✓	✓	34.74	✓	22.19	✓	22.19	✓	34.74									

Comments: SB-2-102820@1510
EB-3-102820@1010

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-25
 SAMPLING DATE(S): 10/27/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 247.94
 ATM. PRESSURE (PSI): (Start) 14.21 (Finish) 14.20

PROBE TYPE: Werthoff
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): I. Hoan
 WEATHER: clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)					Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters						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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm) mg/L	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	220.70	✓	214.63	✓	214.63	✓	220.70	22.3	383	7.44	2	4.09	-89	1130	MW-25-5
4	1	✓	✓	✓	✓	✓	186.16	✓	180.59	✓	180.62	✓	186.15	22.7	801	7.33	3	6.30	54	1152	MW-25-4
	2	✓	✓	✓	✓	✓	186.06	✓	180.61	✓	180.60	✓	186.02							1152	MS/MSD
3	1	✓	✓	✓	✓	✓	129.66	✓	124.89	✓	124.89	✓	129.66	21.8	770	7.49	2	6.63	107	1310	MW-25-3
2	1	✓	✓	✓	✓	✓	94.99	✓	90.24	✓	90.24	✓	94.99	22.2	736	7.56	2	6.19	105	1345	MW-25-2
1	1	✓	✓	✓	✓	✓	66.44	✓	61.85	✓	61.85	✓	66.46	22.3	889	7.54	3	6.24	103	1414	MW-25-1

Comments: EB-2-102720 @ 1445

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-26
 SAMPLING DATE(S) 10/30/20
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 59.26
 ATM. PRESSURE (PSI): (Start) 14.12 (Finish) 14.14

PROBE TYPE Westbay
 SERIAL NO. EMS2502
 PROJECT: JPL
 OPERATOR(S) T. Hooey
 WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)						Field Parameters					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)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm)	ORP (mv)	Sample Time	Sample ID
2	1	✓	✓	✓	✓	✓	85.45	✓	49.12	✓	49.12	✓	85.45	23.4	761	7.346		7.53	124	1230	MW-26-2
	2	✓	✓	✓	✓	✓	85.38	✓	49.11	✓	49.11	✓	85.38								MS/MSD
2	1	✓	✓	✓	✓	✓	50.43	✓	15.55	✓	15.25	✓	50.43	24.1	900	7.39	6	6.80	123	150	MW-26-1
	2	✓	✓	✓	✓	✓	48.94	✓	15.50	✓	15.00	✓	48.90								

Comments: _____

