

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 second quarter 2021 sampling event was conducted by Blaine Tech Services, Inc.

Note: During the second quarter 2021 the relatively shallow standpipe wells MW-5, MW-6, MW-7, MW-8, MW-10, MW-13, and MW-16 and the uppermost sampling ports (i.e., Screen 1) in the multi-port monitoring wells MW-4, MW-12, MW-14, MW-17, MW-18, MW-20, MW-21, MW-23, and MW-26 were dry and no samples were collected.

WELL MONITORING DATA SHEET

Project #: <u>210517-1191</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>05/26/21</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>90.00</u>	Depth to Water (DTW): <u>25.45</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>38.36</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 Red RF2 Dedicated Tubing

start @ 1120
42 (Gals.) X 3 = 126 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	DTW Observations
1131	18.3	7.17	593	4	0.71	146.0	22	28.39
1142	19.3	7.18	593	5	0.68	113.9	44	29.05
1153	18.7	7.19	589	4	0.65	102.3	66	29.35
1204	18.4	7.17	590	3	0.64	93.6	88	29.39
1215	18.5	7.17	590	3	0.61	91.4	110	29.40
1223	18.5	7.17	589	2	0.60	90.3	126	29.40

Did well dewater? Yes No Gallons actually evacuated: 126

Sampling Date: 05/26/21 Sampling Time: 1225 Depth to Water: 29.40

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):

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: MU-3
 SAMPLING DATE(S): 5/21/21 / 5/24/21
 LOCATION: SPL
 WATER LEVEL INSIDE CASING: 196.10
 ATM. PRESSURE (PSI): (Start) 14.02 (Finish) 14.04

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): L. Henderson
 WEATHER: Sunny

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) <u>mg/L</u>	ORP (mv)	Sample Time	Sample ID	
2	1	✓	✓	✓	✓	✓	42.96	✓	44.03	✓	44.04	✓	42.98	19.2	542	7.17	10	7.42	116	1315	MU-3-2	
2	2	✓	✓	✓	✓	✓	42.89	✓	44.04	✓	44.05	✓	42.91	-	-	-	-	-	-	-	-	-
2	3	✓	✓	✓	✓	✓	42.85	✓	44.03	✓	44.06	✓	42.86	-	-	-	-	-	-	-	-	-
1	1	✓	✓	✓	✓	✓	14.14	✓	16.07	✓	16.09	✓	14.16	21.0	550	7.36	5	6.78	105	1440	MU-3-1	
1	2	✓	✓	✓	✓	✓	14.11	✓	16.06	✓	16.08	✓	14.16	-	-	-	-	-	-	-	-	-
5	1	✓	✓	✓	✓	✓	216.96	✓	216.35	✓	216.52	✓	216.97	20.5	581	7.80	155	6.98	122	1345	MU-3-5	
4	1	✓	✓	✓	✓	✓	175.98	✓	175.79	✓	175.77	✓	175.98	24.8	533	8.27	42	7.01	133	1415	MU-3-4	
3	1	✓	✓	✓	✓	✓	83.36	✓	84.05	✓	84.01	✓	83.39	20.0	535	8.39	10	7.14	159	1445	MU-3-3	
3	2	✓	✓	✓	✓	✓	82.87	✓	84.07	✓	84.08	✓	82.89	-	-	-	-	-	-	1500	DUP-3-2021	

Comments: EB-4-052121 @ 1400 / EB-5-052421 @ 1420
SB-1-052121 @ 1410

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-4
 SAMPLING DATE(S): 5/19/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 165.18
 ATM. PRESSURE (PSI): (Start) 14.07 (Finish) 14.00

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): L. Henderson
 WEATHER: cloudy

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	✓	✓	✓	✓	✓	169.01	✓	166.62	✓	166.59	✓	169.01	16.7	546	6.00	9	5.11	178	0900	MW-4-5
4	1	✓	✓	✓	✓	✓	116.55	✓	114.17	✓	114.19	✓	116.28	15.9	591	6.74	4	6.08	155	1000	MW-4-4
3	1	✓	✓	✓	✓	✓	85.55	✓	83.85	✓	83.84	✓	85.60	16.1	613	7.22	6	5.32	133	1030	MW-4-3
3	2	✓	✓	✓	✓	✓	85.53	✓	83.84	✓	83.84	✓	85.50	-	-	-	-	-	-	-	-
2	1	✓	✓	✓	✓	✓	49.62	✓	48.87	✓	48.75	✓	49.64	16.6	785	7.15	9	7.01	67	1130	MW-4-2
2	2	✓	✓	✓	✓	✓	49.61	✓	48.86	✓	48.69	✓	49.63	-	-	-	-	-	-	-	-
2	3	✓	✓	✓	✓	✓	49.58	✓	48.87	✓	48.81	✓	49.56	-	-	-	-	-	-	-	-
1	1	✓	✓	✓	✓	✓	14.18	✓	14.13	✓	14.13	✓	14.17	-PORT IS DRY - NO SAMPLE							

Comments: TR-2-051921 @ 0900
MW-4-3 → MS/MSD

WELL MONITORING DATA SHEET

Project #: <u>210517-1A1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>05/20/21</u>
Well I.D.: <u>MW-5</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth (TD): <u>135.55</u>	Depth to Water (DTW): <u>134.28</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 Other

Water: 2" Rediflo pump Extraction Pump

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

$$\frac{\text{--- (Gals.)} \times \text{---}}{\text{Specified Volumes}} = \text{--- Gals.}$$
 1 Case Volume 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
								- Insufficient water to Purge or Sample -
								- 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 #: 210517-HS/	Site: JPL
Sampler: HH	Date: 05/26/21
Well I.D.: MW-6	Well Diameter: 2 3 ④ 6 8
Total Well Depth (TD): 238.19	Depth to Water (DTW): DRY
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]:	

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

(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

WELL MONITORING DATA SHEET

Project #: <u>210517-HSI</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>05/26/21</u>
Well I.D.: <u>MW-7</u>	Well Diameter: 2 3 <u>(4)</u> 6 8 <u> </u>
Total Well Depth (TD): <u>268.08</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 YSI 556
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:

	(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>- Well is Dry -</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>210517-HS1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>05/26/21</u>
Well I.D.: <u>MW-8</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth (TD): <u>202.10</u>	Depth to Water (DTW): <u>DRY</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> <u>Grade</u>	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: _____

	(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
<u>- Well is Dry -</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 #: 210517-451	Site: JPL
Sampler: HH	Date: 05/26/21
Well I.D.: MW-9	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 60.00	Depth to Water (DTW): 19.61
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]: 27.68	

Purge Method: Bailer Waterra Sampling Method: Bailer
 Disposable Bailer 2" Rediflo pump Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 Electric Submersible Other: D. & R. E. 2 Dedicated Tubing
 Other:

Start @ 1310

26.3 (Gals.) X 3 = 78.9 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
1317	19.9	6.65	560	23	6.06	200.8	14	23.84
1324	20.3	6.67	559	7	5.73	121.2	28	24.41
1331	20.4	6.65	550	4	5.80	112.1	42	24.50
1338	20.2	6.64	539	2	5.83	110.9	56	24.53
1345	20.3	6.64	534	2	5.80	111.7	70	24.53
1350	20.4	6.64	533	2	5.75	109.8	80	24.53

Did well dewater? Yes No Gallons actually evacuated: 80

Sampling Date: 05/26/21 Sampling Time: 1355 Depth to Water: 24.53

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):

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>210517-HS1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>10/26/21</u>
Well I.D.: <u>MW-10</u>	Well Diameter: 2 3 <u>4</u> 6 8 <u> </u>
Total Well Depth (TD): <u>153.33</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 YSI 556
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: _____

	(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-11
 SAMPLING DATE(S): 6/11/21
 LOCATION: SPL
 WATER LEVEL INSIDE CASING:
 ATM. PRESSURE (PSI): (Start) 14.00 (Finish) 14.01
 Temp: 32.96 23.46°C

PROBE TYPE: Westbay
 SERIAL NO.: EMS 12502
 PROJECT: SPL
 OPERATOR(S): L.H. Anderson
 WEATHER: clear, sunny

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
4	1	✓	✓	✓	✓	✓	153.21	✓	149.43	✓	149.38	✓	153.23	21.2	323	7.80	3	5.16	-158	0945	MW-11-4
5	1	✓	✓	✓	✓	✓	202.35	✓	175.20	✓	175.07	✓	202.40	21.2	333	8.00	14	5.23	28	1020	MW-11-5
5	2	✓	✓	✓	✓	✓	200.33	✓	175.09	✓	175.08	✓	200.09	-	-	-	-	-	-	-	-
3	1	✓	✓	✓	✓	✓	112.72	✓	107.59	✓	107.51	✓	112.74	26.2	286	8.68	5	5.77	-93	1120	MW-11-3
3	2	✓	✓	✓	✓	✓	112.55	✓	107.72	✓	107.54	✓	112.56	-	-	-	-	-	-	1135	DUP-7-2021
2	1	✓	✓	✓	✓	✓	38.68	✓	39.80	✓	39.80	✓	38.03	28.1	483	8.58	2	4.83	102	1830	MW-11-2
1	1	✓	✓	✓	✓	✓	14.10	✓	23.18	✓	23.18	✓	14.12	30.7	599	8.48	4	4.51	101	1415	MW-11-1
1	2	✓	✓	✓	✓	✓	14.09	✓	23.18	✓	23.17	✓	14.13	-	-	-	-	-	-	-	MW-11-1

Comments:

TB-10-060121 @ 0800

EB-10-060121 @ 1315

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MU-12
 SAMPLING DATE(S) 5/27/21
 LOCATION: JPC
 WATER LEVEL INSIDE CASING:
 ATM. PRESSURE (PSI): (Start) 14.11 (Finish) 14.11
 Temp 20.90 17.65

PROBE TYPE Westbay
 SERIAL NO. EMS 2502
 PROJECT: JPC
 OPERATOR(S) L. Henderson
 WEATHER Sunny

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	✓	✓	✓	✓	✓	194.32	✓	151.55	✓	151.52	✓	194.33	19.2	497	8.45	2	7.07	190	1110	MU-12-5	
4	1	✓	✓	✓	✓	✓	146.06	✓	121.67	✓	121.57	✓	146.06	18.7	502	8.38	1	6.59	152	1140	MU-12-4	
4	2	✓	✓	✓	✓	✓	145.46	✓	121.63	✓	121.89	✓	145.49	-	-	-	-	-	-	-	-	-
3	1	✓	✓	✓	✓	✓	96.62	✓	76.12	✓	76.12	✓	96.55	19.7	517	8.63	2	6.33	174	1300	MU-12-3	
2	1	✓	✓	✓	✓	✓	61.64	✓	42.48	✓	42.48	✓	61.67	19.0	611	8.17	6	6.12	131	1336	MU-12-2	
1	1	✓	✓	✓	✓	✓	14.21	✓	14.22	✓	14.18	✓	14.18	-	-	-	-	-	-	-	-	-

Comments: EB-8-052721 @ 1345

WELL MONITORING DATA SHEET

Project #: <u>210517-HS1</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>05/26/21</u>
Well I.D.: <u>MW-13</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>234.81</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 YSI 556
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:

	(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: MU-14
 SAMPLING DATE(S) 5/20/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 196.33
 ATM. PRESSURE (PSI): (Start) 13.95 (Finish) 13.97
20.65°C 19.57

PROBE TYPE Westbay
 SERIAL NO. EMS 2502
 PROJECT: JPL
 OPERATOR(S) L. Henderson
 WEATHER cloudy

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) ms/L	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	168.14	✓	146.80	✓	146.81	✓	168.16	18.0	371	7.02	3	6.11	127	0930	MU-14-5
4	1	✓	✓	✓	✓	✓	132.03	✓	110.68	✓	110.66	✓	132.04	18.0	669	7.41	1	6.39	119	0915	MU-14-4
3	1	✓	✓	✓	✓	✓	99.78	✓	78.61	✓	78.59	✓	99.79	17.8	1115	7.53	3	5.66	127	1000	MU-14-3
3	2	✓	✓	✓	✓	✓	99.29	✓	78.61	✓	78.59	✓	99.29	-	-	-	-	-	-	-	-
2	1	✓	✓	✓	✓	✓	53.93	✓	33.14	✓	33.13	✓	53.99	18.5	1217	7.82	2	4.82	130	1106	MU-14-2
1	1	✓	✓	✓	✓	✓	19.84	✓	14.11	✓	14.10	✓	19.85	- PORT IS DRY - NO SAMPLE							

Comments: TB-3-052021 @ 0800
MU-14-3 / MS/MSD

WELL MONITORING DATA SHEET

Project #: <u>210517-H91</u>	Site: <u>JPL</u>
Sampler: <u>HH</u>	Date: <u>05/26/21</u>
Well I.D.: <u>MW-15</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): <u>Depth to pump 60.00</u>	Depth to Water (DTW): <u>31.23</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>36.98</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 Rediflo Dedicated Tubing

Start @ 0930

18.8 (Gals.) X 3 = 56.4 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
0940	17.4	6.81	622	7	5.34	90.1	10	31.45
0950	17.6	6.83	621	2	5.22	92.6	20	31.47
1000	17.6	6.83	615	2	5.20	90.4	30	31.48
1010	17.6	6.82	615	2	5.18	88.3	40	31.48
1020	17.6	6.82	614	2	5.16	87.3	50	31.48
1027	17.6	6.82	614	2	5.16	86.4	57	31.48

Did well dewater? Yes No Gallons actually evacuated: 57

Sampling Date: 05/26/21 Sampling Time: 1030 Depth to Water: 31.48

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

Analyzed for: Other: See C.O.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

MS/MSD

WELL MONITORING DATA SHEET

Project #: 210517-HS1	Site: JPL
Sampler: HH	Date: 05/26/21
Well I.D.: MW-16	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 885.36	Depth to Water (DTW): 854.01 854.21
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]:	

Purge Method: Bailer Water 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.
 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
- Inefficient water to Purge or Sample -								
- 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-17
 SAMPLING DATE(S) 5/26/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 209.66
 ATM. PRESSURE (PSI): (Start) 14.02 (Finish) 14.16
 Temp: 18.50°C 16.88°C

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

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	✓	✓	✓	✓	✓	240.23	✓	176.25	✓	175.77	✓	239.60	18.7	723	6.80	4	5.35	141	0905	MW-17-5
4	1	✓	✓	✓	✓	✓	178.04	✓	124.55	✓	124.53	✓	178.04	20.4	714	7.51	3	5.66	126	0940	MW-17-4
4	2	✓	✓	✓	✓	✓	178.09	✓	124.49	✓	124.41	✓	178.09	-	-	-	-	-	-	-	-
3	1	✓	✓	✓	✓	✓	128.65	✓	92.41	✓	92.41	✓	128.61	24.5	785	8.31	10	4.85	109	1045	MW-17-3
3	2	✓	✓	✓	✓	✓	128.63	✓	92.40	✓	92.41	✓	128.61	-	-	-	-	-	-	-	-
3	3	✓	✓	✓	✓	✓	128.64	✓	92.40	✓	92.40	✓	128.64	-	-	-	-	-	-	-	-
2	1	✓	✓	✓	✓	✓	86.03	✓	54.31	✓	54.31	✓	86.02	23.3	503	8.63	3	4.52	106	1230	MW-17-2
2	2	✓	✓	✓	✓	✓	85.82	✓	54.32	✓	54.31	✓	85.80	-	-	-	-	-	-	1245	DUP-5-2021
1	1	✓	✓	✓	✓	✓	32.23	✓	14.15	✓	14.15	✓	32.22	- PORT IS DRY - NO SAMPLE						-	-

Comments: TB-7-052621 @ CPOCO

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MU-18
 SAMPLING DATE(S): 5/25/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 294.92
 ATM. PRESSURE (PSI): (Start) 13.99 (Finish) 13.96
 Temp: 25.19°C 19.40

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

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	✓	✓	✓	✓	✓	187.52	✓	157.90	✓	157.87	✓	187.54	23.8	311	7.14	9	7.42	-155	0845	MU-18-5
4	1	✓	✓	✓	✓	✓	135.76	✓	111.78	✓	111.79	✓	135.80	22.8	432	7.53	2	7.30	57	0915	MU-18-4
4	2	✓	✓	✓	✓	✓	135.77	✓	111.78	✓	111.79	✓	135.78	-	-	-	-	-	-	-	-
4	3	✓	✓	✓	✓	✓	135.75	✓	111.77	✓	111.80	✓	135.79	-	-	-	-	-	-	-	-
3	1	✓	✓	✓	✓	✓	74.80	✓	62.60	✓	62.62	✓	74.83	25.0	723	8.09	1	8.00	94	1045	MU-18-3
3	2	✓	✓	✓	✓	✓	74.23	✓	62.60	✓	62.60	✓	74.30	-	-	-	-	-	-	1100	DUP-4-2&21
2	1	✓	✓	✓	✓	✓	33.77	✓	23.79	✓	23.78	✓	33.80	25.9	453	8.36	8	7.55	37	1145	MU-18-2
2	1	✓	✓	✓	✓	✓	30.31	✓	23.80	✓	23.79	✓	30.30	-	-	-	-	-	-	-	-
1	1	✓	✓	✓	✓	✓	14.15	✓	14.16	✓	14.14	✓	14.14	-	-	-	-	-	-	-	NO SAMPLE

Comments: TB-6-052521 @ 0800

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-19
 SAMPLING DATE(S): 5/19/21 / 5/20/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 141.80
 ATM. PRESSURE (PSI): (Start) 14.02 (Finish)

PROBE TYPE: Westbay
 SERIAL NO.: EMS 7502
 PROJECT: JPL
 OPERATOR(S): L. Henderson
 WEATHER: clear, Sunny

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			
			Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	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	
5/19 5	1	✓	✓	✓	✓	✓	170.17	✓	113.68	✓	113.68	✓	170.19	24.9	920	6.60	3	4.77	137	1415	MW-19-5
4	1	✓	✓	✓	✓	✓	146.79	✓	90.51	✓	90.49	✓	146.91	22.8	875	7.06	1	4.87	111	1445	MW-19-4
3	1	✓	✓	✓	✓	✓	124.34	✓	84.15	✓	84.15	✓	124.35	22.1	976	7.25	2	4.05	106	1515	MW-19-3
5/20 2	1	✓	✓	✓	✓	✓	90.47	✓	50.85	✓	50.85	✓	90.47	22.5	1208	7.59	11	4.25	98	1230	MW-19-2
2	2	✓	✓	✓	✓	✓	90.46	✓	50.86	✓	50.87	✓	90.46	-	-	-	-	-	-	-	-
2	3	✓	✓	✓	✓	✓	90.42	✓	50.90	✓	50.92	✓	90.41	-	-	-	-	-	-	-	-
1	1	✓	✓	✓	✓	✓	59.13	✓	21.68	✓	21.53	✓	59.14	23.1	595	8.68	6	5.10	53	1426	MW-19-1
1	2	✓	✓	✓	✓	✓	57.84	✓	21.69	✓	21.70	✓	57.84	-	-	-	-	-	-	-	-

Comments: EB-2-051921 @ 1345 /
EB-3-052021 @ 1356

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MU-20
 SAMPLING DATE(S): 6/2/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 243.53
 ATM. PRESSURE (PSI): (Start) 13.93 (Finish) 14.01
29.289 20.02

PROBE TYPE: Westbay
 SERIAL NO.: CMS/ 2502
 PROJECT: JPL
 OPERATOR(S): L. Henderson
 WEATHER: Clear, Sunny

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 (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	✓	✓	✓	✓	✓	303.89	✓	293.09	✓	293.08	✓	303.82	23.0	330	7.62	1	6.58	-126	1030	MU-20-5					
4	1	✓	✓	✓	✓	✓	217.17	✓	192.76	✓	192.71	✓	217.10	23.5	334	8.65	2	6.32	-138	1105	MU-20-4					
3	1	✓	✓	✓	✓	✓	157.20	✓	141.15	✓	141.19	✓	157.17	24.5	324	8.58	2	6.11	-189	1140	MU-20-3					
3	2	✓	✓	✓	✓	✓	156.81	✓	141.29	✓	141.32	✓	156.87	-	-	-	-	-	-	1155	DUP-8-2021					
2	1	✓	✓	✓	✓	✓	83.33	✓	70.70	✓	70.72	✓	83.34	25.2	707	8.24	2	5.44	32	1245	MU-20-2					
1	1	✓	✓	✓	✓	✓	14.14	✓	14.16	✓	14.15	✓	14.11	-	-	-	-	-	-	-	-	-	PORT IS DRY - NO SAMPLE			

Comments: TB-11-060221 @ 0900
EB-11-060221 @ 1300

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MLJ-21
 SAMPLING DATE(S): 5/26/21 / 5/27/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 117.72
 ATM. PRESSURE (PSI): (Start) 14.16 (Finish) 14.13
 Temp: 32.12 20.62 °C

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): L. Henderson
 WEATHER: Clear, Sunny

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	✓	✓	✓	✓	✓	129.29	✓	121.51	✓	121.52	✓	129.30	25.5	868	8.53	5	5.24	105	1435	MLJ-21-5	
4	1	✓	✓	✓	✓	✓	102.73	✓	94.64	✓	94.65	✓	102.78	23.6	969	8.15	3	5.66	113	1505	MLJ-21-4	
3	1	✓	✓	✓	✓	✓	72.70	✓	64.82	✓	64.84	✓	72.70	25.2	1315	8.05	1	6.24	122	0950	MLJ-21-3	
2	1	✓	✓	✓	✓	✓	38.22	✓	30.74	✓	30.72	✓	38.23	27.2	1440	7.34	1	5.92	114	0920	MLJ-21-2	
2	2	✓	✓	✓	✓	✓	38.17	✓	30.75	✓	30.70	✓	38.18	-	-	-	-	-	-	0935	DUP-6-2021	
1	1	✓	✓	✓	✓	✓	14.16	✓	14.11	✓	14.15	✓	14.18	-PORT IS DRY - NO SAMPLE TAKEN-								

Comments: EB-7-052621 @ 1445 / TB-8-052721 @ 0800

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MU-22
 SAMPLING DATE(S): 5/24/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 228.64
 ATM. PRESSURE (PSI): (Start) 14.05 (Finish) 14.00
21.25

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

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) MS/L	ORP (mv)	Sample Time	Sample ID
5	1	✓	✓	✓	✓	✓	173.70	✓	154.47	✓	154.45	✓	173.70	20.3	362	8.29	5	5.12	-162	0930	MU-22-5
7	1	✓	✓	✓	✓	✓	121.46	✓	105.46	✓	105.46	✓	121.48	20.6	393	7.42	3	5.05	45	1000	MU-22-7
3	1	✓	✓	✓	✓	✓	87.63	✓	77.36	✓	77.37	✓	87.63	22.2	558	7.78	2	4.66	88	1040	MU-22-3
2	1	✓	✓	✓	✓	✓	61.55	✓	51.25	✓	51.24	✓	61.59	23.5	654	7.95	1	3.98	84	1115	MU-22-2
2	2	✓	✓	✓	✓	✓	61.56	✓	51.23	✓	51.23	✓	61.58	-	-	-	-	-	-	-	-
1	1	✓	✓	✓	✓	✓	24.60	✓	15.15	✓	15.16	✓	24.61	21.5	1226	7.85	6	4.56	114	1210	MU-22-1
1	2	✓	✓	✓	✓	✓	23.25	✓	15.15	✓	15.18	✓	23.26	-	-	-	-	-	-	-	-

Comments: TR-5-052421 @ 0930
MU-22-2 / MS/MSD

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MW-23
 SAMPLING DATE(S) 5/18/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 142.10
 ATM. PRESSURE (PSI): (Start) 14.07 (Finish) 14.03
 Temp: 20.09°C 21.75°C

PROBE TYPE Westbay
 SERIAL NO. EMS 2502
 PROJECT: JPL
 OPERATOR(S) L. Henderson
 WEATHER Clear, sunny

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 (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) ms/L	ORP (mv)	Sample Time	Sample ID	
5	1	✓	✓	✓	✓	✓	189.61	✓	165.09	✓	164.73	✓	189.63	23.1	452	7.80	4	4.93	-137	1130	MW-23-5	
4	1	✓	✓	✓	✓	✓	147.63	✓	123.10	✓	123.10	✓	147.62	23.6	451	7.37	2	4.60	17	1215	MW-23-4	
3	1	✓	✓	✓	✓	✓	92.97	✓	75.14	✓	75.14	✓	92.99	25.4	612	7.65	2	5.31	56	1245	MW-23-3	
3	2	✓	✓	✓	✓	✓	92.95	✓	75.13	✓	75.13	✓	92.99	-	-	-	-	-	-	1300	DUP-1-2Q21 MW-23	
2	1	✓	✓	✓	✓	✓	64.73	✓	47.00	✓	47.01	✓	64.74	27.0	1148	7.57	2	5.59	71	1345	MW-23-2	
1	1	✓	✓	✓	✓	✓	28.46	✓	14.17	✓	14.16	✓	28.48	-	-	-	-	-	-	-	-	PORT IS DRY - NO SAMPLE

Comments: TB-1 - 051821 @ 1100

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MU-24
 SAMPLING DATE(S) 5/29/21
 LOCATION: SPL
 WATER LEVEL INSIDE CASING: 240.10
 ATM. PRESSURE (PSI): (Start) 13.97 (Finish) 14.02
22.97 23.77

PROBE TYPE Westbay
 SERIAL NO. EMS 2502
 PROJECT: SPL
 OPERATOR(S) L. Henderson
 WEATHER clear, sunny

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	✓	✓	✓	✓	✓	205.03	✓	174.43	✓	174.43	✓	205.73	21.0	506	7.39	2	4.83	151	0430	MU-24-5
4	1	✓	✓	✓	✓	✓	152.11	✓	127.85	✓	127.86	✓	151.91	22.4	210	8.97	2	4.93	142	1015	MU-24-4
3	1	✓	✓	✓	✓	✓	100.52	✓	83.60	✓	83.61	✓	100.50	22.0	608	8.25	2	5.08	24	1050	MU-24-3
2	1	✓	✓	✓	✓	✓	73.15	✓	57.34	✓	57.33	✓	73.03	21.7	624	8.22	2	5.23	95	1130	MU-24-2
2	2	✓	✓	✓	✓	✓	72.69	✓	57.30	✓	57.32	✓	72.57	-	-	-	-	-	-	-	-
1	1	✓	✓	✓	✓	✓	31.86	✓	18.97	✓	18.99	✓	31.78	22.0	714	8.06	4	3.77	105	1245	MU-24-1
1	2	✓	✓	✓	✓	✓	31.68	✓	18.99	✓	19.00	✓	31.70	-	-	-	-	-	-	-	-
1	3	✓	✓	✓	✓	✓	31.05	✓	18.95	✓	18.97	✓	30.96	-	-	-	-	-	-	-	-

Comments: TB-9-052821 @ 0800 / SB-2-052821 @ 1420
EB-9-052821 @ 1400

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MU-25
 SAMPLING DATE(S) 5/21/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING:
 ATM. PRESSURE (PSI): (Start) 14.09 (Finish) 14.13
18.95°C 22.18°C

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

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	✓	✓	✓	✓	✓	219.81	✓	215.72	✓	215.73	✓	219.83	20.9	364	8.36	2	3.10	-167	0900	MU-25-5
4	1	✓	✓	✓	✓	✓	185.73	✓	181.71	✓	181.71	✓	185.70	21.5	842	7.35	4	4.27	15	0930	MU-25-4
3	1	✓	✓	✓	✓	✓	129.41	✓	126.00	✓	126.02	✓	129.45	26.6	791	7.89	1	4.44	55	1015	MU-25-3
3	2	✓	✓	✓	✓	✓	129.00	✓	126.00	✓	126.01	✓	129.02	-	-	-	-	-	-	1030	DUP-2-2021
2	1	✓	✓	✓	✓	✓	94.69	✓	91.40	✓	91.40	✓	94.74	26.3	787	8.22	2	4.66	66	1100	MU-25-2
1	1	✓	✓	✓	✓	✓	66.39	✓	63.04	✓	63.05	✓	66.41	23.5	912	7.88	2	4.93	79	1130	MU-25-1

Comments: TB-4-052121 C 0800

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: MU-26
 SAMPLING DATE(S): 5/25/21
 LOCATION: JPL
 WATER LEVEL INSIDE CASING: 59.46
 ATM. PRESSURE (PSI): (Start) 14.03 (Finish) 14.04
 Temp: 23.00°C 21.84°C

PROBE TYPE: Westbay
 SERIAL NO.: EMS 2502
 PROJECT: JPL
 OPERATOR(S): L. Henderson
 WEATHER: clear Sunny

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	✓	✓	✓	✓	✓	84.30	✓	45.15	✓	45.18	✓	84.33	25.6	759	8.53	4	6.18	110	1345	MU-26-2	
2	2	✓	✓	✓	✓	✓	82.82	✓	45.16	✓	45.16	✓	82.81	-	-	-	-	-	-	-	-	
1	1	✓	✓	✓	✓	✓	49.33	✓	14.20	✓	14.17	✓	49.36	PORT IS DRY - NO SAMPLE							-	-
1	2																					

Comments: EB-6-052521 @ 1400