

## **ATTACHMENT 5: WATER LEVEL MEASUREMENTS**

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This attachment contains water level measurements for the JPL relatively shallow standpipe monitoring wells (MW-1, MW-5 through MW-10, MW-13, MW-15, and MW-16) and the Westbay™ multiport wells (MW-3, MW-4, MW-11, MW-12, MW-14, and MW-17 through MW-26) obtained during the 4<sup>th</sup> Quarter 2019. Water level measurements were recorded before the sampling event on October 11, 2019 for the relatively shallow standpipe monitoring wells and October 11, 14, 15, 16, 17, 21 and 22, 2019 for the Westbay™ multiport wells. Water level measurements were recorded after the sampling event on October 25, 2019 for the relatively shallow standpipe monitoring wells and the Westbay™ multiport wells. Water levels for the shallow wells were measured using a Solinst™ water level meter. In the deep multiport wells, the hydraulic head at each sampling port was measured with a Westbay™ MOSDAX sampling probe. Water level measurements were conducted by Blaine Tech Services, Inc.

## WELL GAUGING DATA

Project # 191611411-1 Date 10-11-19 Client TideWater

Site JPL

Well ID	Well Size (in.)	Time Gauged	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4in	0750					29.81	119.30	↓
MW-5	4in	0705					113.94	135.53	
MW-6	4in	0805					228.25	243.49	
MW-7	4in	0936					253.91	268.21	
MW-8	4in	0900					179.24	202.31	
MW-9	4in	0740					22.49	59.79	
MW-10	4in	0655					130.27	155.20	
MW-13	4in	0820					224.50	234.33	
MW-15	4in	0720					34.98	75.02	
MW-16	4in	0910					276.80	284.71	

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-3  
 DATE: 10/11/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1100.34  
 WEATHER: Clear  
 DTW - 184.19'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): J. Hovess  
 ATM. PRESSURE (Patm): (start) 14.07 (finish) 14.11  
 Temp: 29.12°C 21.11°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mi <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	653	651	218.43	226.61	218.43	26.89	490.33	162.67	653	1254
4	558	557	177.89	187.43	177.29	26.13	399.94	158.06	558	1256
3	346	344	85.03	95.94	85.03	24.99	188.87	157.13	346	1258
2	252	251	44.15	56.46	44.15	23.55	97.79	154.21	252	1300
1	172	171	14.21	25.43	14.21	21.98	26.21	145.79	172	1302

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-4  
 DATE: 10/11/19  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1082.84  
 WEATHER: Clear  
DTW - 154.80'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EM52502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.04 (finish) 14.11  
 Temp: 24.80°C 20.04°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(f)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	513	511	170.58	178.36	170.58	23.99	379.09	133.91	513	1455
4	392	390	101.74	125.96	117.94	23.61	258.20	133.80	392	1457
3	322	320	87.43	95.62	87.43	23.14	188.21	133.79	322	1459
2	240	238	51.69	60.47	51.69	22.54	107.11	132.89	240	1501
1	150	148	14.17	25.12	14.17	20.91	25.56	124.44	150	1503

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-11  
 DATE: 10/22/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1139.3  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): J. Hoang  
 ATM. PRESSURE (Patm): (start) 14.14 (finish) 14.14  
 Temp: 23.93°C 18.60°C

DTW - 182.04'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	ml <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	639	636	212.12	203.75	212.12	21.51	437.43	201.57	639	0730
4	524	521	162.53	163.54	162.53	21.42	344.67	179.33	524	0732
3	429	427	121.59	120.75	121.59	20.89	245.95	183.05	429	0734
2	259	257	47.82	50.23	47.82	19.79	83.26	175.74	259	0736
1	149	148	14.21	23.87	14.21	18.93	22.45	126.55	149	0738

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-12  
 DATE: 10/21/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1102.14  
 WEATHER: Clear  
DTW - 132.17'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hooney  
 ATM. PRESSURE (P<sub>atm</sub>): (start) 14.14 (finish) 14.12  
 Temp: 20.85 °C 17.97 °C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft) = (P2 - P <sub>atm</sub> ) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P (ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	548	547	196.14	173.12	196.14	20.84	366.77	181.23	548	1041
4	436	435	147.38	134.64	147.38	20.99	277.99	158.01	436	1045
3	323	322	98.13	87.24	98.13	20.05	168.64	154.36	323	1048
2	243	242	63.23	53.41	63.23	19.23	90.60	152.40	243	1051
1	140	139	18.19	14.21	18.19	18.42	0.16	139.84	140	1053

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-14  
 DATE: 10/11/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1173.47  
 WEATHER: clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoxeng  
 ATM. PRESSURE (Patm): (start) 14.02 (finish) 14.08

DTW - 192.89

Temp: 27.82°C 20.13°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mt <sup>2</sup> O Inside Casing	Trans. Temp. (°C)				
5	540	539	165.82	155.76	165.82	24.60	326.99	213.01	540	1122
4	456	456	129.31	119.56	<del>129.31</del>	22.94	243.48	212.52	456	1124
3	382	381	97.13	87.51	97.13	21.66	169.54	212.46	382	1126
2	277	277	51.37	42.06	51.37	20.96	64.69	212.31	277	1128
1	207	206	20.87	14.14	20.87	20.47	0.28	206.72	207	1130

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-17  
 DATE: 10/17/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING 1191.21  
 WEATHER: clear  
 DTW - 208.29

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. HOANG  
 ATM. PRESSURE (Patm): (start) 14.01 (finish) 14.04  
 Temp: 30.76 18.49

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mi <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	726	724	239.31	201.52	239.31	22.50	432.59	293.41	726	1238
4	582	581	176.97	145.01	176.97	20.52	302.22	279.78	582	1240
3	468	468	127.48	105.34	127.48	19.25	210.70	257.30	468	1242
2	370	369	84.89	66.63	84.89	17.85	121.39	248.61	370	1244
1	250	249	32.66	20.73	32.66	17.15	15.50	234.50	250	1247

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-18

PROBE TYPE: Westbay Sampler 0-500psi

DATE: 10/11/19

SERIAL NO. EMS 2502

LOCATION: JPL

PROJECT: JPL Pasadena

ELEV. TOP OF WASTBAY CASING: 1225.41

OPERATOR(S): T. Hoag

WEATHER: Clear

ATM. PRESSURE (Palm): (start) 14.04 (finish) 14.08

DTW - 292.98'

Temp: 29.23 17.92

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Palm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mt <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	684	682	184.62	174.83	184.62	24.38	370.94	313.06	684	1214
4	564	562	132.51	127.37	132.51	23.13	261.45	302.55	564	1217
3	424	422	71.67	74.87	71.67	19.53	140.33	283.67	424	1222
2	330	328	30.76	36.81	30.76	18.42	52.53	277.47	330	1225
1	270	268	14.18	14.17	14.18	18.04	0.30	269.70	270	1227

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-19  
 DATE: 10/11/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1142.94  
 WEATHER: Clear  
 DTW - 140.28'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS 8502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hays  
 ATM. PRESSURE (Patm): (start) 14.01 (finish) 14.09  
 Temp: 27.04°C 20.76°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	498	497	169.27	135.69	169.27	25.15	280.72	217.28	498	1324
4	444	442	145.84	112.45	145.84	23.95	227.10	216.90	444	1326
3	392	390	123.26	97.22	123.26	23.26	191.97	200.03	392	1328
2	314	312	89.47	63.77	89.47	22.52	114.80	199.20	314	1330
1	242	240	58.21	34.39	58.21	21.66	47.02	194.98	242	1332

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-20  
 DATE: 10/14/19  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING 1165.05  
 WEATHER: Cloudy  
 DTW - 239.83

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. H. H. H.  
 ATM. PRESSURE (Patm): (start) 14.06 (finish) 14.18  
 Temp: 18.75°C 17.23°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	900	897	302.17	305.41	302.17	21.06	672.14	227.86	900	0740
4	700	696	215.30	206.99	215.30	21.85	445.09	254.91	700	0742
3	562	558	155.09	151.29	155.09	21.47	316.59	245.41	562	0744
2	392	389	81.71	81.93	81.71	18.67	156.58	235.42	392	0746
1	230	228	81.07 14.14	14.17	81.07 14.14	17.68	0.25	229.75	230	0748

Comments: Collar Detect is 6" above sample port

TB-1-101419@0700

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-21  
 DATE: 10/22/19  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1059.10  
 WEATHER: clear  
 DTW - 115.91

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EWS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoggins  
 ATM. PRESSURE (Patm): (start) 14.14 (finish) 14.20  
 Temp: 20.40°C 20.45°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	372	370	126.70	131.97	126.70	27.12	271.83	100.17	372	1213
4	310	310	99.65	105.12	99.65	24.61	209.89	100.11	310	1215
3	240	240	69.59	75.20	69.59	22.67	140.87	99.13	240	1217
2	161	161	35.10	40.96	35.10	21.40	61.87	99.13	161	1219
1	90	89	14.26	14.25	14.26	20.68	0.25	89.75	90	1221

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-22  
 DATE: 10/16/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1176.98  
 WEATHER: Clear  
 DTW - 205.76

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS8502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoag  
 ATM. PRESSURE (Patm): (start) 14.02 (finish) 14.01  
 Temp: 27.22°C 20.39

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	588	586	180.76	168.39	180.76	23.89	356.13	231.87	588	1316
4	467	465	128.32	118.01	128.32	22.48	239.90	227.10	467	1318
3	389	389	94.49	87.42	94.49	21.69	169.33	219.67	389	1320
2	329	328	68.42	61.36	68.42	21.26	109.21	219.79	329	1322
1	245	244	31.47	25.56	31.47	20.78	26.62	218.38	245	1324

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-23  
 DATE: 10/11/19  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1108.84  
 WEATHER: Clear  
 DTW - 140.46'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoag  
 ATM. PRESSURE (Palm): (start) 14.07 (finish) 14.07  
 Temp: 29.20°C 27.37°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) $P(R) = (P2 - Patm) * 2.307 \text{ ft/psi}$	Depth to Water Outside Port (ft) $DTW = Dp - P(\text{ft})$	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	542	540	188.41	178.31	188.41	27.00	378.90	163.10	542	1432
4	445	443	146.45	136.37	146.45	25.82	282.15	162.85	445	1434
3	319	317	91.88	85.56	91.88	24.83	164.93	154.07	319	1436
2	254	252	63.74	57.52	63.74	23.95	100.24	153.76	254	1438
1	174	173	28.94	24.32	28.94	23.02	23.65	150.35	174	1440

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-24  
 DATE: 10/16/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1200.94  
 WEATHER: Clear  
 DTW: 215.30

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Palm): (start) 14.09 (finish) 14.11  
 Temp: 23.87 22.52

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(f) = (P2 - Patm) * 2.307 f/psi	Depth to Water Outside Port (ft) DTW = Dp - P(f)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	678	674	214.93	192.11	214.93	22.86	410.69	267.31	678	0800
4	554	551	161.21	142.28	161.21	22.39	295.73	258.27	554	0802
3	435	433	109.63	94.76	109.63	22.08	186.11	248.89	435	0804
2	373	371	82.69	68.48	82.69	21.91	125.48	247.52	373	0806
1	279	277	41.89	29.90	41.89	22.21	36.47	242.53	279	0808

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-25  
 DATE: 10/15/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING 934.53  
 WEATHER: Clear  
 DTW-246.14

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. Hoang  
 ATM. PRESSURE (Palm): (start) 14.18 (finish) 14.22  
 Temp: 29.70 20.19

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) $P(f) = (P2 - Patm) * 2.307 \text{ ft/psi}$	Depth to Water Outside Port (ft) $DTW = Dp - P(f)$	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	713	711	217.67	214.25	217.67	23.70	461.56	251.44	713	1054
4	633	631	183.14	180.26	183.14	22.84	383.15	249.85	633	1058
3	503	501	126.77	124.49	126.77	21.70	254.49	248.51	503	1102
2	423	422	92.01	89.75	92.01	21.05	174.34	248.66	423	1105
1	358	357	63.70	61.28	63.70	20.42	108.66	249.34	358	1110

Comments: Collar Detect is 2' below sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-26  
 DATE: 10/11/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1059.08  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.13  
 Temp: 25.94 21.65

DTW - 62.61

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
2	215	211	79.93	57.35	79.93	24.43	99.80	115.20	215	1354
1	135	132	48.13	23.36	45.13	22.40	21.39	113.61	135	1356

Comments: Collar Detect is 2' below sample port

## WELL GAUGING DATA

Project # 191011-HH1 Date 10/25/19 Client Ticklewater

Site JPL Pasadena CA

Well ID	Well Size (in.)	Time Gauged	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4	1250					31.61	Ded pump	P ↓ ✓
MW-5	4	0719					116.51	Ded pump	
MW-6	4	1021					229.95	Ded pump	
MW-7	4	1600					255.83	Ded pump	
MW-8	4	0822					181.95	Ded pump	
MW-9	4	1252					24.30	Ded pump	
MW-10	4	0647					132.56	Ded pump	
MW-13	4	0818					226.85	Ded pump	
MW-15	4	0810					36.72	Ded pump	
MW-16	4	0830					277.69	284.70	

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-3  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1100.34  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoan  
 ATM. PRESSURE (Patm): (start) 14.11 (finish) 14.13  
 Temp: 25.39 22.19°C

DTW - 184.68'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sup>2</sup> O Inside Casing	Trans. Temp. (°C)				
5	653	651	218.31	227.26	215.31	24.63	491.74	161.26	653	1305
4	558	557	177.11	186.68	177.11	24.42	398.12	159.88	558	1307
3	346	344	84.90	95.07	84.90	23.86	186.77	159.23	346	1309
2	252	251	43.98	55.53	43.98	23.22	95.56	156.44	252	1311
1	172	171	14.22	24.51	14.22	22.30	23.99	148.01	172	1313

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-4  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1082.84  
 WEATHER: Clear  
 DTW = 154.81

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): Ti Hickey  
 ATM. PRESSURE (Palm): (start) 14.16 (finish) 14.12  
 Temp: 18.28°C 19.0°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	513	510	170.50	177.60	170.50	19.67	377.06	135.94	513	0735
4	392	389	117.83	125.18	117.83	20.41	256.12	135.88	392	0737
3	322	319	87.24	94.83	87.34	20.60	186.11	135.89	322	0739
2	240	237	51.59	54.61	51.59	20.51	104.85	135.15	240	0741
1	150	147	14.26	24.05	14.26	19.72	22.82	127.18	150	0743

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-11  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING 1139.3  
 WEATHER: Clear  
 DTW - 135.82'

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.08 (finish) 14.13  
 Temp: 23.68°C 20.31°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	639	637	210.35	195.32	210.35	23.11	418.12	220.88	639	1151
4	524	522	160.86	162.32	160.86	22.86	341.99	182.01	524	1153
3	429	427	119.92	119.09	119.92	22.48	242.26	186.74	429	1155
2	259	257	46.40	48.96	46.40	21.70	80.47	178.53	259	1157
1	149	148	14.20	23.81	14.20	20.71	22.45	126.55	149	1159

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-12  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING 1102.14  
 WEATHER: Clear  
 DTW - 132.89'

PROBE TYPE Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT JPL Pasadena  
 OPERATOR(S) T. Hooey  
 ATM. PRESSURE (Patm): (start) 14.13 (finish) 14.16  
 Temp: 16.82°C 18.22°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	548	547	195.56	172.75	195.56	17.66	365.94	182.06	548	0757
4	436	436	146.83	134.31	146.83	18.63	277.26	158.74	436	0759
3	323	322	97.63	86.90	97.63	18.76	167.88	155.12	323	0801
2	243	242	62.79	53.14	62.79	18.63	90.00	153.00	243	0803
1	140	139	17.88	14.18	17.88	18.40	0.12	139.88	140	0805

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-14  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1173.47  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: FMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hooley  
 ATM. PRESSURE (Patm): (start) 14.13 (finish) 14.11  
 Temp: 22.13°C 20.79°C

DTW - 193.11'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mi <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
5	540	539	165.74	155.12	165.74	22.47	325.26	214.74	540	1037
4	456	456	136.71 <sup>129.32</sup>	118.90	136.71 <sup>124.52</sup>	22.05	241.70	214.30	456	1039
3	382	381	97.15	86.85	97.15	21.80	167.77	214.23	382	1041
2	277	275	51.39	41.40	51.39	21.44	62.91	214.09	277	1043
1	207	206	20.83	14.17	20.83	21.13	0.09	206.91	207	1045

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-17  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1191.21  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EM5 8502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoag  
 ATM. PRESSURE (Patm): (start) 14.07 (finish) 14.06  
 Temp: 24.19°C 18.60°C

DTW - 208.75'

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (°C)				
5	726	726	239.02	200.64	239.02	23.40	430.42	295.58	726	1332
4	582	581	176.71	144.62	176.71	22.54	301.18	280.82	582	1334
3	468	468	127.30	104.79	127.30	21.54	209.29	258.71	468	1336
2	370	368	84.74	66.13	84.74	20.35	120.10	249.90	370	1338
1	250	248	32.57	26.17	32.57	19.29	14.07	235.93	250	1340

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-18  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1225.41  
 WEATHER: clear  
 DTW: 293.72

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoaney  
 ATM. PRESSURE (Patm): (start) 14.04 (finish) 14.07  
 Temp: 25.37°C 19.69°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Op) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	684	682	184.34	171.70	184.34	25.68	370.64	313.36	684	1356
4	564	562	132.11	126.60	132.11	24.87	259.68	304.32	564	1358
3	424	422	71.41	73.99	71.41	23.62	138.30	285.70	424	1400
2	330	327	30.46	35.91	30.46	22.29	50.45	279.55	330	1402
1	270	267	14.23	14.20	14.23	20.40	0.37	269.63	270	1404

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-19  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1142.94  
 WEATHER: Clear  
 DTW - 140.39'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoan  
 ATM. PRESSURE (Patm): (start) 14.12 (finish) 14.10  
 Temp: 25.74°C 19.76°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(f) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(f)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	498	495	169.30	134.97	169.30	23.81	278.80	219.20	498	1226
4	444	441	145.90	111.70	145.90	22.70	225.12	218.88	444	1228
3	392	389	123.35	96.48	123.35	21.83	190.00	202.00	392	1230
2	314	311	89.49	63.01	89.49	21.12	112.79	201.21	314	1232
1	242	239	58.23	33.59	58.23	20.50	44.92	197.08	242	1234

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-20  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1165.05  
 WEATHER: Clear  
 DTW - 239.63'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hagan  
 ATM. PRESSURE (Patm): (start) 14.01 (finish) 14.05  
 Temp: 29.26°C 20.36°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	ml <sup>3</sup> O Inside Casing	Trans. Temp. (oC)				
5	900	898	301.22	304.93	301.22	27.52	671.15	228.85	900	1457
4	700	696	214.81	206.62	214.81	25.61	444.35	255.65	700	1459
3	562	558	154.85	150.93	154.85	24.36	315.87	246.13	562	1501
2	392	391	80.93	81.55	80.93	22.70	155.81	236.19	392	1503
1	230	228	14.20	14.21	14.20	21.19	0.46	229.54	230	1505

Comments: Collar Detect is 6" above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-21  
 DATE: 10/25/14  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1059.10  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): J. Hacy  
 ATM. PRESSURE (Patm): (start) 14.18 (finish) 14.17  
 Temp: 24.44°C 19.85°C

DTW - 116.60

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	372	371	126.17	131.01	126.17	23.18	269.53	102.47	372	0959
4	310	308	99.19	104.15	99.19	22.31	207.56	102.44	310	1001
3	240	239	69.15	74.35	69.15	21.00	138.81	101.19	240	1003
2	161	160	34.73	40.25	34.73	20.45	60.14	100.86	161	1005
1	90	88	14.24	14.22	14.24	20.07	0.09	89.91	90	1007

Comments: Collar Detect is 2' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-22  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1176.98  
 WEATHER: Clear  
 DTW - 206.32'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoag  
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.09  
 Temp: 22.69°C 21.16

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mf'0 Inside Casing	Trans. Temp. (oC)				
5	588	586	180.39	167.99	180.39	22.56	355.05	232.95	588	1106
4	467	466	128.05	117.60	128.05	22.52	238.80	228.20	467	1108
3	389	388	94.20	86.96	94.20	22.31	168.11	220.89	389	1110
2	329	328	68.17	60.88	68.17	21.87	107.94	221.06	329	1112
1	245	244	31.28	25.10	31.28	21.49	25.40	219.60	245	1114

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-23  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 1108.84  
 WEATHER: Clear  
 DTW - 140.85'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO. EMS 2802  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hous  
 ATM. PRESSURE (Patm): (start) 14.03 (finish) 14.16  
 Temp: 23.24 21.02°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	542	540	188.33	177.79	188.33	22.44	377.79	164.21	542	0705
4	445	444	146.37	135.72	146.37	22.35	280.74	164.26	445	0707
3	319	318	91.76	84.81	91.76	22.10	163.29	155.71	319	0709
2	254	253	63.57	56.76	63.57	21.72	98.58	155.42	254	0711
1	174	173	28.82	23.54	28.82	21.32	21.94	152.06	174	0713

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-24  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1200.94  
 WEATHER: Clear  
DTW - 216.81'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hanes  
 ATM. PRESSURE (Patm): (start) 14.08 (finish) 14.09  
 Temp: 21.11°C 22.43°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(f) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(f)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mH <sub>2</sub> O Inside Casing	Trans. Temp. (oC)				
5	678	676	214.20	141.66	214.20	22.13	409.68	268.32	678	1130
4	554	552	160.55	141.81	160.55	22.21	294.67	259.33	554	1132
3	435	433	108.98	94.20	108.98	22.15	184.84	250.16	435	1134
2	373	371	81.96	67.75	81.96	22.11	123.82	249.18	373	1136
1	279	277	41.30	29.35	41.30	22.24	35.23	243.77	279	1138

Comments: Collar Detect is 1' above sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-25  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WASTBAY CASING: 934.53  
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.17 (finish) 14.18

DTW - 247.23

Temp: 25.11°C 21.78°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft) = (P2 - Patm) * 2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp - P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	mh <sup>2</sup> O Inside Casing	Trans. Temp. (°C)				
5	713	T11	216.85	214.31	216.85	24.73	461.72	251.28	713	1530
4	633	631	182.28	180.34	182.28	24.25	383.35	249.65	633	1532
3	503	501	126.17	124.56	126.17	23.66	254.67	248.33	503	1534
2	423	422	91.42	89.83	91.42	23.06	174.55	248.45	423	1536
1	358	356	63.06	61.39	63.06	22.53	108.94	249.06	358	1538

Comments: Collar Detect is 2' below sample port

**WESTBAY™ GROUNDWATER MONITORING WELL  
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-26  
 DATE: 10/25/19  
 LOCATION: JPL  
 ELEV. TOP OF WESTBAY CASING: 1059.08  
 WEATHER: Clear  
 DTW 62.90'

PROBE TYPE: Westbay Sampler 0-500psi  
 SERIAL NO.: EMS 2502  
 PROJECT: JPL Pasadena  
 OPERATOR(S): T. Hoang  
 ATM. PRESSURE (Patm): (start) 14.10 (finish) 14.10  
 Temp: 29.60°C 23.77°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm <sup>2</sup> Outside Casing P2	min <sup>2</sup> O Inside Casing	Trans. Temp. (oC)				
2	215	211	79.84	56.89	79.84	27.10	98.72	116.28	215	1431
1	135	131	45.02	22.91	45.02	24.83	20.32	114.68	135	1432

Comments: Collar Detect is 2' below sample port