

ATTACHMENT 5: WATER LEVEL MEASUREMENTS

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 third quarter 2021. Water level measurements were recorded before the sampling event on July 16, 2021, for the relatively shallow standpipe monitoring wells and July 16, 20, 22, 26, and 27, 2021 for the Westbay™ multiport wells. Water level measurements were recorded after the sampling event on July 30, 2021, 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.

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

WELL ID: MW-4
 DATE: 7/26/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1082.84
 WEATHER: Clear, Sunny
 DTW - 168.42

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): L. Henderson
 ATM. PRESSURE (Palm): (start) 14.06 (finish) 14.07
 Temp: 22.61 19.13

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| | | | 164.87 | | 164.87 | 22.25 | | | | |
| 5 | 513 | 511 | 162.70 | 164.90 | 162.70 | 21.92 | 347.99 | 165.01 | 513 | 0842 |
| 4 | 392 | 390 | 112.08 | 112.55 | 112.08 | 22.25 | 227.22 | 164.78 | 392 | 0847 |
| 3 | 322 | 320 | 81.51 | 82.30 | 81.51 | 22.01 | 157.43 | 164.57 | 322 | 0849 |
| 2 | 240 | 238 | 45.68 | 47.21 | 45.68 | 21.56 | 76.48 | 163.52 | 240 | 0850 |
| 1 | 150 | 148 | 14.14 | 14.13 | 14.14 | 20.36 | 0.16 | 149.84 | 150 | 0853 |
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Comments: Collar Detect is 2' above sample port

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

WELL ID: MW-11
 DATE: 7/27/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1139.3
 WEATHER: Clear, Sunny
 DTW - 204.64

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): L. Henderson
 ATM. PRESSURE (Patm): (start) 14.05 (finish) 14.07
 Temp: 24.21 19.16

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 639 | 637 | 202.36 | 177.80 | 202.36 | 22.27 | 377.77 | 261.23 | 639 | 0827 |
| 4 | 524 | 522 | 152.76 | 148.83 | 152.76 | 22.19 | 310.94 | 213.06 | 524 | 0829 |
| 3 | 429 | 427 | 111.89 | 107.12 | 111.89 | 21.74 | 214.71 | 214.29 | 429 | 0831 |
| 2 | 259 | 257 | 37.97 | 38.29 | 37.97 | 20.66 | 55.92 | 203.08 | 259 | 0834 |
| 1 | 149 | 147 | 14.13 | 21.44 | 14.13 | 19.25 | 17.05 | 131.95 | 149 | 0836 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-12
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1102.14
 WEATHER: clear, sunny
 DTW -144.85

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) L. Henderson
 ATM. PRESSURE (Patm): (start) 14.02 (finish) 14.05
 Temp: 24.81 20.05

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 548 | 546 | 190.15 | 152.54 | 190.15 | 23.91 | 319.57 | 228.43 | 548 | 1440 |
| 4 | 436 | 434 | 141.44 | 120.88 | 141.44 | 23.56 | 246.53 | 189.47 | 436 | 1441 |
| 3 | 323 | 321 | 97.60 | 79.57 | 97.60 | 22.49 | 151.22 | 171.78 | 323 | 1443 |
| 2 | 243 | 242 | 57.54 | 41.17 | 57.54 | 21.61 | 62.64 | 180.36 | 243 | 1444 |
| 1 | 140 | 138 | 14.16 | 14.17 | 14.16 | 20.71 | 0.35 | 139.65 | 140 | 1446 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-14
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1173.47
 WEATHER: Clear, Sunny
 DTU - 196.66

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): L-Henderson
 ATM. PRESSURE (Patm): (start) 14.00 (finish) 14.04
 Temp: 27.95 21.32

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | | |
| 5 | 540 | 538 | 164.22 | 144.82 | 164.22 | 26.52 | 301.80 | 238.20 | 540 | 1357 | |
| 4 | 456 | 455 | 128.53 | 108.63 | 128.53 | 25.66 | 212.6 | 218.31 | 237.69 | 456 | 1353 |
| 3 | 382 | 381 | 95.47 | 76.50 | 95.47 | 23.77 | 144.37 | 144.37 | 237.63 | 382 | 1356 |
| 2 | 277 | 276 | 49.74 | 31.07 | 49.74 | 23.13 | 22.31 | 39.38 | 237.62 | 277 | 1358 |
| 1 | 207 | 206 | 19.25 | 14.14 | 19.25 | 21.78 | 0.32 | 0.32 | 206.68 | 207 | 1400 |
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Comments: Collar Detect is 6" above sample port

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

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

WELL ID: MW-17
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1191.21
 WEATHER: clear, sunny
 DTW - 209.71

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) L. Henderson
 ATM. PRESSURE (Patm): (start) 14.03 (finish) 14.02
 Temp: 21.77 18.50

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 726 | 726 | 238.56 | 186.40 | 238.56 | 21.03 | 397.66 | 328.34 | 726 | 11/1 |
| 4 | 582 | 582 | 176.27 | 126.39 | 176.27 | 20.94 | 259.21 | 322.79 | 582 | 11/2 |
| 3 | 468 | 468 | 126.86 | 93.07 | 126.86 | 20.35 | 182.35 | 285.65 | 468 | 11/4 |
| 2 | 370 | 370 | 84.29 | 53.81 | 84.29 | 19.34 | 91.77 | 278.23 | 370 | 11/6 |
| 1 | 250 | 249 | 32.14 | 14.19 | 32.14 | 18.44 | 0.37 | 249.63 | 250 | 11/8 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-18
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1225.41
 WEATHER: clear, sunny
 DTW - 295.12

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) L. Henderson
 ATM. PRESSURE (Patm): (start) 13.99 (finish) 14.07
 Temp: 23.15 19.13

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 684 | 684 | 183.72 | 160.67 | 183.72 | 22.92 | 338.39 | 345.61 | 684 | 10 43 |
| 4 | 564 | 562 | 131.61 | 112.38 | 131.61 | 22.32 | 226.99 | 337.01 | 564 | 10 45 |
| 3 | 424 | 424 | 70.74 | 61.98 | 70.74 | 21.45 | 110.71 | 313.29 | 424 | 10 47 |
| 2 | 330 | 330 | 29.83 | 22.99 | 29.83 | 20.17 | 20.76 | 309.24 | 330 | 10 49 |
| 1 | 270 | 270 | 14.16 | 14.17 | 14.16 | 19.75 | 0.42 | 269.58 | 270 | 10 50 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-19
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1142.94
 WEATHER: clear Sunny
 DTW - 142.13

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): I. Henderson
 ATM. PRESSURE (Patm): (start) 14.02 (finish) 14.01
 Temp: 25.31 20.69

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 498 | 496 | 168.98 | 115.04 | 168.48 | 24.37 | 233.05 | 264.95 | 498 | 1215 |
| 4 | 444 | 442 | 145.08 | 91.82 | 145.08 | 23.66 | 179.48 | 264.52 | 444 | 1216 |
| 3 | 392 | 390 | 122.50 | 83.54 | 122.50 | 22.6 | 160.38 | 231.62 | 392 | 1218 |
| 2 | 314 | 312 | 88.70 | 50.12 | 88.70 | 22.11 | 83.28 | 230.72 | 314 | 1219 |
| 1 | 242 | 240 | 57.41 | 20.68 | 57.41 | 21.62 | 15.36 | 226.64 | 242 | 1221 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-20
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1165.05
 WEATHER: Clear, Sunny
 DFW - 243.64

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): L. Henderson
 ATM. PRESSURE (Patm): (start) 14.03 (finish) 14.05
 Temp: 23.22 20.18

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 900 | 898 | 299.94 | 293.12 | 299.94 | 22.63 | 643.86 | 256.14 | 900 | 1010 |
| 4 | 700 | 698 | 213.09 | 197.36 | 213.09 | 22.91 | 422.94 | 277.06 | 700 | 1012 |
| 3 | 562 | 560 | 153.16 | 140.95 | 153.16 | 22.17 | 292.80 | 269.20 | 562 | 1015 |
| 2 | 392 | 391 | 79.26 | 70.62 | 79.26 | 20.97 | 130.55 | 261.45 | 392 | 1017 |
| 1 | 230 | 229 | 14.20 | 14.18 | 14.20 | 19.52 | 0.35 | 229.65 | 230 | 1019 |
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Comments: Collar Detect is 6" above sample port

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

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

WELL ID: MW-21
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1059.10
 WEATHER: clear, sunny

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) L. Henderson
 ATM. PRESSURE (Patm): (start) 14.06 (finish) 14.09
 Temp: 31.52 23.28

DTU = 117.97

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 372 | 371 | 125.46 | 119.90 | 125.46 | 29.70 | 244.17 | 127.83 | 372 | 1320 |
| 4 | 310 | 309 | 98.51 | 93.04 | 98.51 | 28.10 | 182.21 | 127.79 | 310 | 1321 |
| 3 | 240 | 240 | 68.44 | 63.19 | 68.44 | 26.54 | 113.34 | 126.66 | 240 | 1323 |
| 2 | 161 | 161 | 34.06 | 29.07 | 34.06 | 25.16 | 34.63 | 126.37 | 161 | 1324 |
| 1 | 90 | 90 | 14.14 | 14.13 | 14.14 | 24.02 | 0.16 | 89.84 | 90 | 1325 |
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Comments: Collar Detect is 2' above sample port

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

WELL ID: MW-22
 DATE: 7/22/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1176.98
 WEATHER: Clear, Sunny
 DTW - 237.34

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) L. Henderson
 ATM. PRESSURE (Patm): (start) 14.03 (finish)
 Temp: 34.71

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (°C) | | | | |
| 5 | 588 | 586 | 167.92 | 155.95 | 167.92 | 27.26 | 327.41 | 260.59 | 588 | 1207 |
| 4 | 467 | 466 | 115.23 | 106.03 | 115.23 | 25.49 | 212.24 | 254.76 | 467 | 1210 |
| 3 | 389 | 387 | 81.24 | 76.64 | 81.24 | 21.61 | 144.44 | 244.56 | 389 | 1223 |
| 2 | 329 | 327 | 55.05 | 50.77 | 55.05 | 21.45 | 84.64 | 244.36 | 329 | 1225 |
| 1 | 245 | 243 | 17.93 | 14.72 | 17.93 | 20.96 | 1.59 | 243.41 | 245 | 1227 |
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Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-23
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING: 1108.84
 WEATHER: clear, sunny

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EDS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): L. Henderson
 ATM. PRESSURE (Patm): (start) 14.00 (finish) 14.07
 Temp: 30.14 21.54

DTW - 142.14

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 542 | 541 | 107.75 | 1163.61 | 107.75 | 24.61 | 345.15 | 196.85 | 542 | 1417 |
| 4 | 445 | 443 | 145.74 | 121.71 | 145.74 | 24.19 | 248.49 | 196.51 | 445 | 1418 |
| 3 | 319 | 317 | 91.19 | 73.16 | 91.19 | 23.57 | 136.48 | 182.52 | 319 | 1420 |
| 2 | 254 | 253 | 63.00 | 45.05 | 63.00 | 27.72 | 71.63 | 182.37 | 254 | 1422 |
| 1 | 174 | 173 | 28.24 | 14.19 | 28.24 | 22.04 | 0.44 | 173.56 | 174 | 1423 |
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Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-24
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1200.94
 WEATHER: clear, sunny

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): L. Henderson
 ATM. PRESSURE (Patm): (start) 13.98 (finish) 13.99
 Temp: 22.09 22.79

DTW - 249.66

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 678 | 676 | 199.87 | 174.52 | 199.87 | 23.61 | 370.37 | 307.63 | 678 | 1503 |
| 4 | 554 | 552 | 146.22 | 127.27 | 146.22 | 22.93 | 261.36 | 292.64 | 554 | 1508 |
| 3 | 435 | 437 | 94.81 | 82.11 | 94.81 | 22.72 | 157.18 | 277.82 | 435 | 1509 |
| 2 | 373 | 373 | 67.76 | 55.94 | 67.76 | 22.58 | 96.80 | 276.20 | 373 | 1510 |
| 1 | 279 | 278 | 27.00 | 17.52 | 27.00 | 22.55 | 8.17 | 270.83 | 279 | 1511 |
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Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-25
 DATE: 7/20/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 834.53
 WEATHER: Clear, Sunny
 DTW - 248.82

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) L. Henderson
 ATM. PRESSURE (Patm): (start) 14.19 (finish) 14.17
 Temp: 27.05 21.02

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 713 | 711 | 216.47 | 215.98 | 216.47 | 23.38 | 465.53 | 247.47 | 713 | 0845 |
| 4 | 633 | 631 | 181.95 | 181.98 | 181.95 | 22.91 | 387.09 | 245.91 | 633 | 0846 |
| 3 | 503 | 502 | 125.62 | 126.27 | 125.62 | 22.34 | 258.57 | 244.43 | 503 | 0849 |
| 2 | 423 | 421 | 90.80 | 91.64 | 90.80 | 21.85 | 178.68 | 244.32 | 423 | 0851 |
| 1 | 358 | 356 | 62.51 | 63.32 | 62.51 | 21.50 | 113.34 | 244.66 | 358 | 0852 |
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Comments: Collar Detect is 2' below sample port

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

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

WELL ID: MW-26
 DATE: 7/16/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1059.08
 WEATHER: clear

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) L Henderson
 ATM. PRESSURE (Patm): (start) 14.04 (finish) 14.07
 Temp: 25.02 21.81

DTW - 59.78

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 2 | 215 | 213 | 81.20 | 44.45 | 81.20 | 23.40 | 70.16 | 144.84 | 215 | 0945 |
| 1 | 135 | 132 | 46.37 | 14.15 | 46.37 | 22.17 | 0.25 | 134.75 | 135 | 0949 |
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Comments: Collar Detect is 2' below sample port

WELL GAUGING DATA

Project # 210716-LH1 Date 07/30/21 Client Tidelwater

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 <u>(TOC)</u> | |
|---------|-----------------|-------------|--------------|----------------------------------|--------------------------------------|------------------------------------|----------------------|----------------------------|-----------------------------------|--|
| MW-1 | 4 | 1431 | | | | | 35.04 | Dead pump | ↓ | |
| MW-5 | 4 | 0730 | | | | | DRY | 135.57 | | |
| MW-6 | 4 | 0935 | | | | | DRY | 237.77 | | |
| MW-7 | 4 | 1456 | | | | | DRY | 267.54 | | |
| MW-8 | 4 | 0812 | | | | | DRY | 201.65 | | |
| MW-9 | 4 | 1434 | | | | | 29.31 | Dead pump | | |
| MW-10 | 4 | 0723 | | | | | DRY | 153.33 | | |
| MW-13 | 4 | 0814 | | | | | DRY | 234.73 | | |
| MW-15 | 4 | 0927 | | | | | 40.24 | Dead pump | | |
| MW-16 | 4 | 1453 | | | | | DRY | 254.50 | | |
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**WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET**

WELL ID: MW-3
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1100.34
 WEATHER: Clear
DTW - 197.42'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hoang
 ATM. PRESSURE (Patm): (start) 14.01 (finish) 14.03
 Temp: 24.31°C 20.99°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 ² Outside Casing P2 | mH ² O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 653 | <u>652</u> | <u>212.86</u> | <u>215.55</u> | <u>212.86</u> | <u>25.56</u> | 464.95 | 188.05 | 653 | <u>1411</u> |
| 4 | 558 | <u>557</u> | <u>171.53</u> | <u>174.68</u> | <u>171.53</u> | <u>24.86</u> | 370.67 | 187.33 | 558 | <u>1413</u> |
| 3 | 346 | <u>346</u> | <u>79.34</u> | <u>82.99</u> | <u>79.34</u> | <u>27.62</u> | 159.14 | 186.86 | 346 | <u>1415</u> |
| 2 | 252 | <u>251</u> | <u>38.40</u> | <u>42.60</u> | <u>38.40</u> | <u>21.78</u> | 65.96 | 186.04 | 252 | <u>1416</u> |
| 1 | 172 | <u>171</u> | <u>14.13</u> | <u>14.11</u> | <u>14.13</u> | <u>21.07</u> | 0.23 | 171.77 | 172 | <u>1418</u> |
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Comments: Collar Detect is 2' above sample port

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

WELL ID: MW-4
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1082.84
 WEATHER: Clear
DTW - 169.72'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hoey
 ATM. PRESSURE (Patm): (start) 14.07 (finish) 14.09
 Temp: 22.52°C 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 513 | 511 | 163.92 | 164.70 | 163.92 | 22.51 | 347.50 | 165.50 | 513 | 0851 |
| 4 | 392 | 390 | 111.25 | 112.34 | 111.25 | 22.46 | 226.71 | 165.29 | 392 | 0853 |
| 3 | 322 | 320 | 80.74 | 82.08 | 80.74 | 22.22 | 156.90 | 165.10 | 322 | 0855 |
| 2 | 240 | 238 | 44.99 | 46.97 | 44.99 | 21.55 | 75.90 | 164.10 | 240 | 0857 |
| 1 | 150 | 148 | 14.15 | 14.13 | 14.15 | 21.20 | 0.14 | 149.86 | 150 | 0859 |
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Comments: Collar Detect is 2' above sample port

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

WELL ID: MW-11
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1139.3
 WEATHER: Clear
 DTW - 207.43'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO. EMS 470-8502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Harvey
 ATM. PRESSURE (Patm): (start) 14.03 (finish) 14.01
 Temp: 20.91°C 20.65°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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 639 | 657 | 200.62 | 175.26 | 200.62 | 20.67 | 371.96 | 267.04 | 639 | 0754 |
| 4 | 524 | 523 | 151.13 | 148.33 | 151.13 | 21.03 | 309.83 | 214.17 | 524 | 0756 |
| 3 | 429 | 427 | 110.26 | 106.33 | 110.26 | 20.91 | 212.94 | 216.06 | 429 | 0758 |
| 2 | 259 | 257 | 36.60 | 38.13 | 36.60 | 20.36 | 55.60 | 203.40 | 259 | 0800 |
| 1 | 149 | 148 | 14.12 | 21.71 | 14.12 | 19.85 | 17.72 | 131.28 | 149 | 0802 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-12
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1102.14
 WEATHER: clear
 DTW - 144.89'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoay
 ATM. PRESSURE (Patm): (start) 14.03 (finish) 14.04
 Temp: 20.03°C 19.18°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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 548 | 546 | 189.90 | 151.92 | 189.90 | 20.68 | | | (14.03) 20.68 0915 | |
| 4 | 436 | 435 | 140.82 | 120.60 | 140.82 | 20.88 | | | 20.88 0916 | |
| 3 | 323 | 322 | 91.44 | 74.54 | 91.44 | 20.49 | | | 20.50 0917 | |
| 2 | 243 | 241 | 56.26 | 40.74 | 56.26 | 20.50 | | | 0918 | |
| 1 | 140 | 138 | 14.15 | 14.09 | 14.15 | 19.27 | | | 0919 | |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-12
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1102.14
 WEATHER: clear
DTW - 144.89'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoay
 ATM. PRESSURE (Patm): (start) 14.03 (finish) 14.04
 Temp: 20.03°C 19.18°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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 548 | 546 | 189.90 | 151.92 | 189.90 | 20.68 | 318.11 | 229.89 | 548 | ⁽¹⁴⁾ 20.68 0915 |
| 4 | 436 | 435 | 140.82 | 120.60 | 140.82 | 20.88 | 245.86 | 190.14 | 436 | 20.88 0916 |
| 3 | 323 | 322 | 91.44 | 74.54 | 91.44 | 20.49 | 139.60 | 183.40 | 323 | 20.50 0917 |
| 2 | 243 | 241 | 56.26 | 40.74 | 56.26 | 20.50 | 61.62 | 181.38 | 243 | 0918 |
| 1 | 140 | 138 | 14.15 | 14.09 | 14.15 | 19.27 | 0.14 | 139.86 | 140 | 0919 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-14
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1173.47
 WEATHER: Clear
DTW-197.01'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS 250R
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Haug
 ATM. PRESSURE (P_{atm}): (start) 74.04 (finish) 14.06
 Temp: 20.62°C 20.29°C

| Port No. | Depth to Meas. Port Valve (ft) | | Pressure Readings (psi) | | | | Pressure Head Outside Port (ft) P(ft)=(P2-P _{atm})*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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (°C) | | | | |
| 5 | 540 | 538 | 163.96 | 144.46 | 163.96 | 21.04 | 300.88 | 239.12 | 540 | 0951 |
| 4 | 456 | 456 | 127.49 | 108.26 | 127.49 | 21.08 | 217.37 | 238.63 | 456 | 0953 |
| 3 | 382 | 381 | 95.25 | 76.20 | 95.25 | 20.89 | 143.40 | 238.60 | 382 | 0955 |
| 2 | 277 | 276 | 49.52 | 30.68 | 49.52 | 20.56 | 38.39 | 238.61 | 277 | 0957 |
| 1 | 207 | 206 | 19.01 | 14.09 | 19.01 | 20.30 | 0.12 | 206.88 | 207 | 0959 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-17
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1191.21
 WEATHER: Clear
 DTW - 209.63'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hoang
 ATM. PRESSURE (Patm): (start) 14101 (finish) 14102
 Temp: 25.30°C 19.65°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 ² Outside Casing P2 | mH ² O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 726 | 725 | 238.50 | 185.96 | 238.50 | 24.03 | 396.69 | 329.31 | 726 | 1317 |
| 4 | 582 | 581 | 176.20 | 125.64 | 176.20 | 23.14 | 257.53 | 324.47 | 582 | 1319 |
| 3 | 468 | 468 | 126.94 | 92.68 | 126.94 | 22.20 | 181.49 | 286.51 | 468 | 1321 |
| 2 | 370 | 369 | 84.24 | 53.48 | 84.24 | 21.05 | 91.06 | 278.94 | 370 | 1323 |
| 1 | 250 | 249 | 32.05 | 14.16 | 32.05 | 19.63 | 0.35 | 249.65 | 250 | 1325 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-18
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1225.41
 WEATHER: Clear
 DTW - 295.30'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Haeg
 ATM. PRESSURE (Patm): (start) 13.99 (finish) 14.01
 Temp: 22.36°C 27.33°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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 684 | 683 | 183.57 | 160.09 | 183.57 | 24.81 | 337.05 | 346.95 | 684 | 1343 |
| 4 | 564 | 562 | 131.41 | 111.82 | 131.41 | 24.07 | 225.69 | 338.31 | 564 | 1345 |
| 3 | 424 | 423 | 70.55 | 61.64 | 70.55 | 23.13 | 109.93 | 314.07 | 424 | 1347 |
| 2 | 330 | 328 | 29.61 | 22.73 | 29.61 | 22.08 | 20.16 | 309.84 | 330 | 1349 |
| 1 | 270 | 269 | 14.14 | 14.14 | 14.14 | 21.29 | 0.35 | 269.65 | 270 | 1351 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-19
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING: 1142.94
 WEATHER: Clear

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hoan
 ATM. PRESSURE (P_{atm}): (start) 14.01 (finish) 14.03
 Temp: 22.50°C 21.05°C

DTW - 142.23'

| Port No. | Depth to Meas. Port Valve (ft) | | Pressure Readings (psi) | | | | Pressure Head Outside Port (ft) P(ft)=(P2-P _{atm})*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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 498 | 496 | 168.40 | 114.41 | 168.40 | 23.32 | 231.62 | 266.38 | 498 | 1251 |
| 4 | 444 | 442 | 144.93 | 91.19 | 144.93 | 22.70 | 178.05 | 265.95 | 444 | 1253 |
| 3 | 392 | 390 | 122.43 | 83.09 | 122.43 | 22.26 | 159.37 | 232.63 | 392 | 1255 |
| 2 | 314 | 312 | 88.56 | 49.73 | 88.56 | 21.75 | 82.41 | 231.59 | 314 | 1257 |
| 1 | 242 | 240 | 57.30 | 20.35 | 57.30 | 21.31 | 14.63 | 227.37 | 242 | 1259 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-20
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING: 1165.05
 WEATHER: Clear
 DTW - 243.62'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO.: EMS # 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. H. ...
 ATM. PRESSURE (Patm): (start) 14.02 (finish) 14.01
 Temp: 24.84°C 20.59

| 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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (°C) | | | | |
| 5 | 900 | 898 | 299.93 | 292.57 | 299.93 | 24.30 | 642.61 | 257.39 | 900 | 1720 |
| 4 | 700 | 699 | 213.12 | 196.37 | 213.12 | 23.75 | 420.68 | 279.32 | 700 | 1722 |
| 3 | 562 | 562 | 153.11 | 138.96 | 153.11 | 23.03 | 288.24 | 273.76 | 562 | 1725 |
| 2 | 392 | 391 | 79.14 | 20.29 | 79.14 | 21.86 | 129.81 | 262.19 | 392 | 1727 |
| 1 | 230 | 229 | 14.17 | 14.16 | 14.17 | 20.63 | 0.32 | 229.68 | 230 | 1729 |
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Comments: Collar Detect is 6" above sample port

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

WELL ID: MW-21
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING: 1059.10
 WEATHER: Clear
 DTW - 118.15'

PROBE TYPE: Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT: JPL Pasadena
 OPERATOR(S): T. Hoang
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.07
 Temp: 22.17°C 20.69°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 (Dp) (ft) | Time |
|----------|--------------------------------|------------|-------------------------|--------------------------------------|---------------------------------|-------------------|---|--|---------------------------|------|
| | From Log (Dp) | From Cable | psi Inside Casing | kg/cm ² Outside Casing P2 | mH ² O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 372 | 372 | 125.41 | 119.48 | 125.41 | 22.34 | 243.13 | 128.87 | 372 | 1020 |
| 4 | 310 | 309 | 98.41 | 92.62 | 98.41 | 21.87 | 181.17 | 128.83 | 310 | 1022 |
| 3 | 240 | 239 | 68.37 | 62.79 | 68.37 | 21.53 | 112.35 | 127.65 | 240 | 1025 |
| 2 | 161 | 160 | 33.97 | 28.66 | 33.97 | 21.01 | 33.61 | 127.39 | 161 | 1027 |
| 1 | 90 | 89 | 14.16 | 14.13 | 14.16 | 20.68 | 0.09 | 89.91 | 90 | 1029 |
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Comments: Collar Detect is 2' above sample port

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

WELL ID: MW-22
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1176.98
 WEATHER: Clear
 DTW - 237.86'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 8502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoan
 ATM. PRESSURE (Patm): (start) 13.95 (finish) 13.93
 Temp: 23.24°C 21.17°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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 588 | 586 | 167.30 | 153.26 | 167.30 | 22.88 | 321.39 | 266.61 | 588 | 0637 |
| 4 | 467 | 467 | 114.77 | 103.98 | 114.77 | 22.50 | 207.70 | 259.30 | 467 | 0639 |
| 3 | 389 | 388 | 80.87 | 75.32 | 80.87 | 22.38 | 141.58 | 247.42 | 389 | 0641 |
| 2 | 329 | 328 | 54.73 | 49.21 | 54.73 | 21.73 | 81.34 | 247.66 | 329 | 0643 |
| 1 | 245 | 245 | 18.59 | 14.11 | 18.59 | 21.19 | 0.37 | 244.63 | 245 | 0645 |
| | | | 17.70 | | 17.70 | | | | | |
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Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-23
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1108.84
 WEATHER: Clear
 PTW - 142.17'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. FMS2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hogan
 ATM. PRESSURE (Patm): (start) 14.05 (finish) 14.01
 Temp: 20.15°C 20.80°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 ² Outside Casing P2 | mH ² O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 542 | 540 | 187.71 | 162.23 | 187.71 | 20.77 | 344.16 | 197.84 | 542 | 0708 |
| 4 | 445 | 444 | 145.73 | 121.79 | 145.73 | 21.08 | 248.56 | 196.44 | 445 | 0710 |
| 3 | 319 | 319 | 91.14 | 72.76 | 91.14 | 21.05 | 135.44 | 183.56 | 319 | 0713 |
| 2 | 254 | 253 | 63.81 | 44.64 | 62.81 | 20.08 | 70.57 | 183.43 | 254 | 0715 |
| 1 | 174 | 173 | 02.89 28.23 | 14.13 | 62.89 28.23 | 20.39 | 0.18 | 173.82 | 174 | 0717 |
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Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-24
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 1200.94
 WEATHER: Clear
 DTW - 250.30'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 2502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hickey
 ATM. PRESSURE (Patm): (start) 13.97 (finish) 13.95
 Temp: 21.98°C 20.65°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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 678 | 676 | 199.52 | 174.05 | 199.52 | 22.44 | 369.30 | 308.70 | 678 | 0829 |
| 4 | 554 | 552 | 145.95 | 126.84 | 145.95 | 22.46 | 260.39 | 293.61 | 554 | 0831 |
| 3 | 435 | 433 | 94.38 | 81.90 | 94.38 | 22.38 | 156.71 | 278.29 | 435 | 0833 |
| 2 | 373 | 371 | 67.39 | 55.46 | 67.39 | 22.32 | 95.72 | 277.28 | 373 | 0835 |
| 1 | 279 | 277 | 26.64 | 16.96 | 26.64 | 22.40 | 6.90 | 272.10 | 279 | 0837 |
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Comments: Collar Detect is 1' above sample port

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

WELL ID: MW-25
 DATE: 07/30/21
 LOCATION: JPL
 ELEV. TOP OF WASTBAY CASING 934.53
 WEATHER: Clear
DTW - 248.49'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 250C
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoang
 ATM. PRESSURE (Palm): (start) 14.13 (finish) 14.12
 Temp: 28.54°C 22.54°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 ² Outside Casing P2 | mH ₂ O Inside Casing | Trans. Temp. (oC) | | | | |
| 5 | 713 | 713 | 216.06 | 216.02 | 216.06 | 26.89 | 465.76 | 247.24 | 713 | 1151 |
| 4 | 633 | 631 | 181.67 | 182.01 | 181.67 | 26.11 | 387.30 | 245.70 | 633 | 1153 |
| 3 | 503 | 502 | 125.37 | 126.32 | 125.37 | 25.10 | 258.82 | 244.18 | 503 | 1155 |
| 2 | 423 | 422 | 90.67 | 91.69 | 90.67 | 24.24 | 178.93 | 244.07 | 423 | 1156 |
| 1 | 358 | 356 | 62.43 | 63.35 | 62.43 | 23.48 | 113.55 | 244.45 | 358 | 1158 |
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Comments: Collar Detect is 2' below sample port

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

WELL ID: MW-26
 DATE: 02/30/21
 LOCATION: JPL
 ELEV. TOP OF WESTBAY CASING 1059.08
 WEATHER: Clear
 DTW - 59.97'

PROBE TYPE Westbay Sampler 0-500psi
 SERIAL NO. EMS 8502
 PROJECT JPL Pasadena
 OPERATOR(S) T. Hoeny
 ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.07
 Temp: 25.19 °C 23.05 °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 ² Outside Casing P2 | mH ² O Inside Casing | Trans. Temp. (°C) | | | | |
| 2 | 215 | 211 | 81.09 | 43.90 | 81.09 | 24.53 | 68.77 | 146.23 | 215 | 1059 |
| 1 | 135 | 132 | 46.88 | 14.14 | 46.88 | 23.91 | 0.12 | 134.88 | 135 | 1101 |
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Comments: Collar Detect is 2' below sample port
