# Calibration

8-11-10 J.P. STP/Percolation Ditches

Tag # 000149 Orion Turbidity
Model # AQ4500
Serial # 001225
-calibrated-

Tag # 000155
Model # YSI 556
Serial # 04B1154
-calibrated-

2325 3d.
Tag # ~~05030~~ Geotech Env. Rental
Model # YSI 556
Serial # 07K100314
-calibrated-

# LOW FLOW SAMPLING

EQUIPMENT < 250' WELLS

CONTROLLER - MICRO PURGE BASICS (QED)

MODEL # MP-10 TAG # 00009.

PUMPS 1 3/4 STAINLESS STEEL PUMP

WITH DISPOSABLE POLYETHELYNE BLADDERS

TAG # 11286, TAG # 000032 TAG # 11288

$CO_2$ METER:

EQUIPMENT FOR WELLS > 250'

CONTROLLER - MICRO PURGE (QED) HIGH PRESSURE

MODEL # MP-10H TAG # _____

QED STAINLESS STEEL 1000' BLADDER PUMP

MODEL # 1105 NC 1.66 - 55" x 36"

TAG # 000090, TAG # _____

DRAW DOWN METER MODEL MP-30 TAG # 00096

THERMO ORION TURBIDITY METER MODEL

# AQ4500 TAG # 00078.

WATER LEVEL INDICATOR TAG # _____

YSI 556 - MULTI PROBE SYSTEM WITH IN-LINE

FLOW THROUGH CELL TAG # 00079,

HONDA GENERATOR TAG # 00050

- HACH DR/850

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SAMPLING PROCEDURES ACCORDANCE WITH LOW-FLOW

SAMPLING MINIMAL - DRAWDOWN. PROCEDURES

AS DISCRIBED IN U.S. EPA (1996)

G. GARCIA 6-30-11

| WELL ID | DTW (TOC) | TD (TOC) | TIME |
|---|---|---|---|
| MPL-1 | 205.40 | 222.80 | 1350 |
| MPL-2 | 198.85 | 220.95 | 1505 |
| MPL-3 - QC | 192.60 | 230.75 | 1430 |
| MPL-4 - MS/MSD | 188.56 | 227.50 | 1500 |
| MPL-5 | 186.05 | 208.00 | 1403 |
| MPL-6 | 172.04 | 193.04 | 1425 |
| MPL-7 | 179.40 | 218.06 | 1519 |
| MPL-10 | 241.41 | 278.26 | 1335 |
| MPL-13 | 218.37 | 236.93 | 1343 |
| MPL-16 - MS/MSD | 234.75 | 257.70 | 1541 |
| MPL-17 | 176.90 | 191.20 | 1525 |
| MPL-18 | 171.90 | 231.05 | 1415 |
| MPL-19 | 194.31 | 467.42 | 1439 |
| MPL-20 - QC | 193.26 | 332.75 | 1435 |
| MPL-21 - MS/MSD | 190.20 | — | 1404 |
| MPL-22 | 189.41 | 311.15 | 1410 |
| MPL-23 - QC | 243.50 | 540.92 | 1330 |
| MPL-24 | 238.90 | 317.10 | 1330 |
| MPL-25 | 256.40 | 278.15 | 1537 |
| MPL-26 | 216.60 | 257.90 | 1552 |
| MPL-28 | 184.79 | 203.55 | 1450 |
| MPL-29 | 215.50 | 228.00 | 1510 |
| MPL-30 | 199.55 | 223.35 | 1536 |
| MW-1 | 212.00 | 288.99 | 1608 |
| MW-4 | 254.96 | 281.81 | 1615 |
| MT-40 | 128.54 | 143.60 | 1538 |

291

DATE: 7-5-11 PERSONNEL: G. GARCIA
WELL ID: MPL-29

AIR TEMP: 98 °F REL. HUM 20 %
WEATHER COND: PARTLY CLOUDY 5-10 MPH

PUMP #: 11286 WATER QUALITY METER YSI #L00079
DRUM: COMP 55GAL WATER LEVEL IND#: 000
GEN HRS: 1:00 TURBIDITY METER #: 000078

WELL TD: 225.63 DTGW (bgs) 213.23
DTW (TOC) 215.50 WATER COL: 12.40
LOC: ~~215~~ 2.27 COL VOL: 8-09
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 25.70 °C DO: 4.46 g/L TURB: 2.92 NTU
COND: 0.750 mS/cm PH: 6.91 CO2: 32.0 MEDIUM RANGE mg/L
TDS: 0.488 mg/L ORP: 190.2 mV FERROUS METALS: 0.02 mg/L

SAMPLE DATE: 7-5-11
" TIME: 1415
" ID#: MNPL-MPL-MPL-029-0711

DATE: 7-5-11 WELL ID: MPL-29 PERSONNEL: G. GARCIA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1342 | INIT | 30.88 | 0.001 | 0.001 | 6.49 | 7.17 | 26.3 | 6.12 |
| 1348 | 750 | 26.39 | 0.750 | 0.488 | 4.84 | 6.91 | 170.3 | 4.58 |
| 1354 | 1500 | 25.24 | 0.751 | 0.488 | 4.70 | 6.85 | 187.5 | 4.25 |
| 1400 | 2250 | 25.35 | 0.749 | 0.487 | 4.53 | 6.83 | 188.6 | 3.89 |
| 1406 | 3000 | 25.80 | 0.749 | 0.487 | 4.51 | 6.87 | 190.5 | 3.27 |
| 1412 | 3750 | 25.70 | 0.750 | 0.488 | 4.46 | 6.91 | 190.2 | 2.92 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |
| 1415 SAMPLE | | | | | | | | |

NOTES: SET-UP, PUMP SET @ 216.12, DRAWDOWN SET @ 216.32, CONTROLLER SET @ CPM2 5055
REFILL 15, DISCHARGE 15, PSI 105, START PROG 1333, 1ST WATER 1341,
FINISH 1438, TOTAL 1:00, INITIAL DRAWDOWN 215.32, FINAL 216.12.

DATE 7-6-11 PERSONNEL: J. Padilla
WELL ID: MPL-28 G. Garcia
S. VANGALA

AIR TEMP: 90 °F REL. HUM 10 %
WEATHER COND: PARTLY CLOUDY 0-5 MPH

PUMP #: 11286 WATER QUALITY METER YSI #: 0079
DRUM: COMP 55 GAL WATER LEVEL IND. #: 00096
GEN HRS: 1:10 TURBIDITY METER #: 0078

WELL TD: 200.95 DTGW (DGS): 182.24
DTW (TOC) 184.79 WATER COL: 18.71
LOC: 2.55 COL. VOL: 19.36
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 25.68 & DO: 5.21 g/L TURB: 0.75 NTU
COND: 0.778 mS/cm PH: 7.53 $CO_2$ 10 medium range mg/L
TDS: 0.506 mg/L ORP: 197.1 mV FERROUS IRON 0.00 mg/L

SAMPLE DATE: 7-6-11
" TIME: 0954
" ID #: MNPL-MPL-MPL-028-0711

DATE: 7-6-11 WELL ID: MPL-28 PERSONNEL: J. Padilla, G. Garcia,

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 0922 | INIT | 25.76 | 0.785 | 0.510 | 6.97 | 7.42 | 162.2 | 3.03 |
| 0927 | 750 | 24.89 | 0.779 | 0.507 | 5.63 | 7.35 | 187.6 | 2.43 |
| 0932 | 1500 | 24.99 | 0.776 | 0.504 | 5.37 | 7.41 | 191.9 | 1.61 |
| 0937 | 2250 | 25.54 | 0.782 | 0.508 | 5.49 | 7.57 | 194.9 | 1.02 |
| 0942 | 3000 | 24.77 | 0.779 | 0.506 | 5.23 | 7.50 | 200.8 | 0.80 |
| 0947 | 3750 | 24.84 | 0.777 | 0.505 | 5.42 | 7.52 | 201.6 | 0.89 |
| 0952 | 4500 | 25.68 | 0.778 | 0.506 | 5.21 | 7.53 | 197.1 | 0.75 |
| | 5250 | | | | | | | |
| 0954 | Sample | | | | | | | |

NOTES: SET-UP, PUMP SET @ 188.62, DRAWDOWN SET @ 185.75, CONTROLLER SET @ CPM 7 IDS6
REFILL 14, DISCHARGE 16, PSI 95, START PURGE 0913, 1ST WATER 0920
FINISH 1020, TOTAL 1:07, INITIAL DRAWDOWN 184.80, FINAL 0.05

DATE: 7-6-11 PERSONNEL: G. GALICIA
WELL ID #: MPL-07 J. PADILLA
S. VANGALA
AIR TEMP: 95 °F REL HUM 12 %
WEATHER COND: PARTLY CLOUDY 0-5

PUMP #: 11288 WATER QUALITY METER YSI #: 0074
• DRUM: 55 GAL COMP WATER LEVEL IND #: 00096
GEN HRS: 1110 TURBIDITY METER #: 0078

WELL TD: 214.55 DTGW (BGS): 176.98
DTW (TOC): 179.40 WATER COL: 37.57
LUX: 2.42 COL. VOL: 24.53
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 24.83 °C DO: 4.73 g/L TURB: 0.24 NTU
COND: 0.926 mS/cm PH: 7.17 CO2: 26 mg/L
TDS: 0.602 mg/L ORP: 198.3 mV FERROUS METALS: 0.14 mg/L

SAMPLE DATE: 7-6-11
TIME: 1131
ID #: MNPL-MPL-MPL-007-0711

DATE: 7-6-11 WELL ID: MPL-07 PERSONNEL: G. GALICIA, J. PADILLA
S. VANGALA

| TIME | VOL | TEMP | COND | ORP | PH | DO | TURB |
|---|---|---|---|---|---|---|---|
| 1104 | INIT | 25.27 | 0.924 | 0.600 | 164.9 | 7.38 | 5.80 | 0.98 |
| 1109 | 750 | 24.88 | 0.923 | 0.600 | 178.3 | 7.29 | 4.84 | 0.68 |
| 1114 | 1500 | 24.91 | 0.925 | 0.601 | 192.3 | 7.22 | 4.84 | 0.82 |
| 1119 | 2250 | 24.74 | 0.927 | 0.602 | 196.4 | 7.20 | 4.89 | 0.34 |
| 1124 | 3000 | 24.80 | 0.927 | 0.602 | 198.6 | 7.18 | 4.72 | 0.31 |
| 1129 | 3998 | 24.83 | 0.926 | 0.602 | 198.3 | 7.17 | 4.73 | 0.24 |
| | 4500 | | | | | | | |
| 1134 | SAMPLE | | | | | | | |

NOTES - SET CP, PUMP SET @ 191.46', DRAWDOWN SET @ 180.25', CONTINUED SET @ 1050
REFILL 14', DISCHARGE 16 PSI 95, START PURGE 1054, LOW FLOW 1100.
FINISH 1200, TOTAL 1:06, INITIAL DRAWDOWN 179.40, FINAL 179.48

DATE: 7-7-11 PERSONNEL: G. GARCIA
WELL ID: MPL-16 J. PADILLA
S. VANGALA

AIR TEMP: 85 °F REL. HUM 10 %
WEATHER COND: CLEAR 0-1 MPH

PUMP #: 000032 WATER QUALITY METER YSI #0079
DRUM: COMP 559AL WATER LEVEL IND #: 00096
GEN HRS: 2:40 TURBIDITY METER #: 00078

WELL TD 255.00 DTGW(bgs): 233.40
DTW(TOC) 234.75 WATER COL: 21.60
LOC: 1.35 COL. VOL: 14.10
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 25.45 °C DO: 8.69 mg/L TURB: 0.24 NTU
COND: 0.500 mS/cm PH: 7.13 $CO_2$: 14 medium range mg/L
TDS: 0.325 mg/L ORP: 237.6 mV FERRUS: IRON: mg/L

SAMPLE DATE: 7-7-11
TIME: 0934
" ID #: MNPL-MPL-MPL-016-0711
MNPL-MPL-MPL-016-0711-MS
MNPL-MPL-MPL-016-0711-MSD

DATE: 7-7-11 WELL ID: MPL-16 PERSONNEL: G. GARCIA, J. PADILLA, S. VANGALA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 0854 | INIT | 25.75 | 0.602 | 0.391 | 10.59 | 7.49 | 197.4 | 1.04 |
| 0900 | 750 | 25.37 | 0.543 | 0.353 | 9.66 | 6.73 | 233.9 | 0.86 |
| 0906 | 1500 | 25.20 | 0.510 | 0.331 | 8.94 | 6.88 | 233.3 | 0.54 |
| 0912 | 2250 | 25.24 | 0.502 | 0.326 | 9.09 | 6.93 | 237.0 | 0.35 |
| 0919 | 3000 | 25.38 | 0.500 | 0.325 | 8.63 | 7.12 | 233.0 | 0.40 |
| 0925 | 3750 | 25.36 | 0.500 | 0.325 | 9.12 | 7.13 | 230.5 | 0.27 |
| 0932 | 4500 | 25.45 | 0.500 | 0.325 | 8.69 | 7.13 | 237.6 | 0.24 |
| 0934 | 5250 Sample | | | | | | | |

NOTES: SET-UP, PUMP SET @ 242.76, DRAWDOWN SET @ 235.70, CONTROLLER SET @ ID 56 (PM2)
REFILL 15 DISCHARGE 15, PSI 115, START PURGE @ 0844, 1ST WATER 0851
FINISH 1120, TOTAL 2:29, INITIAL DRAWDOWN 234.70, FINAL 235.10.

DATE: 7-7-11 PERSONNEL: G. GARCIA
WELL ID: MPL-30 J. PADILLA

AIR TEMP: 100 °F REL. HUM 14 %
WEATHER COND: CLEAR 0-5 MPH

PUMP #: 11286 WATER QUALITY METER YSI #: 0079
DRUM: COMP 559AL WATER LEVEL IND #: 00096
GEN HRS Ø TURBIDITY METER #: 00078

WELL TD: 220.82 DTGW(bgs): 197.07
DTW(TOC) 199.55 WATER COL: 23.75
LOC: 2.48 COL. VOL: 15.50
WELLSIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 28.51 °C DO: 5.63 g/L TURB: 2.42 NTU
COND: 0.699 mS/cm PH: 7.13 CO2 14.0 MEDIUM RANGE mg/L
TDS: 0.454 mg/L ORP: 237.2 mV FERROUS METALS: 0.02 mg/L

SAMPLE DATE: 7-7-11
" TIME: 1455
" ID #: MNPL-MPL-MPL-030-0711
"

DATE: 7-7-11 WELL ID: MPL-30 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1426 | INIT. | 30.26 | 0.707 | 0.460 | 8.26 | 7.24 | 211.3 | 3.80 |
| 1431 | 750 | 29.21 | 0.700 | 0.455 | 6.46 | 7.15 | 223.8 | 3.67 |
| 1436 | 1500 | 29.38 | 0.699 | 0.454 | 5.68 | 7.14 | 234.3 | 1.56 |
| 1441 | 2250 | 28.81 | 0.700 | 0.455 | 5.67 | 7.13 | 233.2 | 2.21 |
| 1446 | 3000 | 28.75 | 0.695 | 0.452 | 5.60 | 7.12 | 236.3 | 1.28 |
| 1451 | 3750 | 28.51 | 0.699 | 0.454 | 5.63 | 7.13 | 237.2 | 2.42 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1455 SAMPLE

NOTES: SET-UP, PUMP SET @ 206.04, DRAWDOWN SET @ 200.35, CONTROLLER SET @ 10.56 CPM2
REFILL 14, DISCHARGE 16, PSI 95, START PURGE 1414, 1st WATER 1421
FINISH 1515, TOTAL 1:01, INITIAL DRAWDOWN 199.35, FINAL 199.92.

DATE: 7-8-11 PERSONNEL: G. GALICIA
WELL ID: MPL-18 J. PADILLA

AIR TEMP: 90 °F REL. HUM 24 %
WEATHER COND: CLEAR 8 S MPH

PUMP #: 11288 WATER QUALITY METER YSI #00174
DRUM: 55GAL WATER LEVEL INDIC: 00026
GEN HRS: 1.00 TURBIDITY METER #: 00078

WELL TD: 230.00 DTGW(DGS): 170.35
DTW (DGS) 171.90 WATER COL: 59.65
LOC: 1.55 COL VOL: 38.95
WELL SIZE: 4"

SAMPLE PARAMETERS @ TIME OF COLLECTION
TEMP: 25.22 & DO: 4.27 @ TURB: 0.64 NTU
COND: 0.311 mS/cm PH: 8.21 ORP: 8.0 MV
TDS: 0.202 mg/L ORP: 99.5 MV FERROUS METALS: 0.04 mg/L

SAMPLE DATE: 7-8-11
TIME: 1105
ID #: MPL-MPL-018-0711

DATE: 7-8-11 WELL ID: MPL-18 PERSONNEL: G. GALICIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1037 | INIT | 24.95 | 0.324 | 0.211 | 7.19 | 8.33 | 135.6 | 0.95 |
| 1042 | 750 | 25.06 | 0.312 | 0.203 | 4.82 | 8.20 | 115.2 | 0.86 |
| 1047 | 1500 | 25.05 | 0.312 | 0.203 | 4.55 | 8.21 | 107.6 | 0.75 |
| 1052 | 2250 | 25.13 | 0.311 | 0.202 | 4.45 | 8.20 | 103.7 | 0.60 |
| 1057 | 3000 | 25.22 | 0.311 | 0.202 | 4.21 | 8.20 | 101.0 | 0.69 |
| 1102 | 3750 | 25.22 | 0.311 | 0.202 | 4.27 | 8.21 | 99.5 | 0.64 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1105 SAMPLE

NOTES: SET-UP, PUMP SET @ 12.35, DRAWDOWN SET @ 172.9, CONTROLLER SET @ 70 CPM 2
REFILL 14, DISCHARGE 14, PSI 90, START PURGE 1030, 1ST WATER 1034
FINISH 11:20, TOTAL 0:50, INITIAL DRAWDOWN 171.70, FINAL 171.85

DATE: 7-8-14 PERSONNEL: G. GARCIA
WELL ID: MPL-6 J. PADILLA

AIR TEMP: 101 °F REL. HUM 20 %
WEATHER COND: CLEAR 0-5 MPH

PUMP #: 000032 WATER QUALITY METER YSI #00073
DRUM: COMP 55 GAL WATER LEVEL IND #: 00008
GEN #/HRS: 1.00 TURBIDITY METER #: 000078

WELL TD: 198.00 DTW (BGS): 169.43
DTW (TOC) 172.04 WATER COL: 23.57
LOC: 2.61 COL. VOL: 15.39
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 26.03 °C DO: 4.38 mg/L TURB: 0.52 NTU (MEDIUM RANGE)
COND: 0.327 mS/cm PH: 8.25 CO2: 100 mg/L
TDS: TDS: 0.212 mg/L ORP: 81.2 mV FERROUS METALS: 0.05 mg/L

SAMPLE DATE: 7-8-14
TIME: 1350
ID #: MWPL-MPL-MPL-006-0714

DATE: 7-8-14 WELL ID: MPL-6 PERSONNEL: GARCIA, J PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1305 | INIT | 29.42 | 0.334 | 0.228 | 6.17 | 8.47 | 72.7 | 6.28 |
| 1330 | 750 | 25.73 | 0.327 | 0.213 | 5.14 | 8.27 | 72.3 | 1.30 |
| 1335 | 1500 | 26.03 | 0.327 | 0.212 | 4.47 | 8.25 | 76.1 | 0.57 |
| 1340 | 2250 | 26.01 | 0.327 | 0.212 | 4.54 | 8.25 | 79.2 | 0.56 |
| 1345 | 3000 | 26.03 | 0.327 | 0.212 | 4.38 | 8.25 | 81.2 | 0.52 |
| | 3750 | | | | | | | |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |
| 1350 | SAMPLE | | | | | | | |

NOTES: SET-UP, PUMP SET @ 178.53, DRAWDOWN SET @ 172.74, CONTROLLER SET: 1856 CHAD
REFILL #1 DESCHARGE 1/2 PSI 20, START PURGE 1345, 1.5 GALLONS 1525
FINISH 1405, TOTAL PURGED 10.44, SHUTTLE DRAWDOWN 174.74, FINAL

DATE: 7-11-11 PERSONNEL: G GARCIA
WELL ID: MPL-10 J. PADILLA

AIR TEMP: 100 °F REL HUM 20 %
WEATHER COND: CLEAR 0.5 MPH

PUMP #: 11288 WATER QUALITY METER YSI #: 000079
DRUM: COMP 55 GAL WATER LEVEL IND #: 000094
GEN HRS: TURBIDITY METER #: 000078

WELL TD: 274.56 DTGW (bgs): 239.45
DTW (TOC): 241.41 WATER COL: 35.11
LOC: 1.96 COL. VOL: 22.92
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 27.93 & DO: 3.01 g/L TURB: 0.38 NTU
COND: 0.540 mS/cm PH: 7.79 CO2: 16.0 mg/L MEDIUM RANGE
TDS: 0.351 mg/L ORP: 145.8 mV FERRUS METALS 0.00 mg/L

SAMPLE DATE: 7-11-11
" TIME: 1120
" ID#: MNPL-MPL-MPL-010-074

DATE: 7-11-11 WELL ID: MPL-10 PERSONNEL: G GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1052 | INIT | 28.18 | 0.519 | 0.337 | 3.31 | 7.90 | 0.155 | 0.79 |
| 1057 | 750 | 27.81 | 0.533 | 0.346 | 2.58 | 7.8 | 129.2 | 0.57 |
| 1102 | 1500 | 27.88 | 0.535 | 0.348 | 2.66 | 7.83 | 132.6 | 0.42 |
| 1108 | 2250 | 27.98 | 0.532 | 0.349 | 3.00 | 7.80 | 139.40 | .34 |
| 1113 | 3000 | 27.92 | 0.540 | 0.351 | 2.89 | 7.80 | 135.7 | 0.27 |
| 1118 | 3750 | 27.93 | 0.540 | 0.351 | 3.01 | 7.79 | 145.8 | 0.38 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1120 SAMPLE

NOTES: SET-UP, PUMP SET @ 257.40, DRAWDOWN SET @ 242.11 CONTROLLER SET MN
REFILL 15, DISCHARGE 15, PSI 115, START PURGE 1085, 1ST WATER 1045
FINISH 1200, TOTAL 1:25, INITIAL DRAWDOWN 241.11, FINAL 241.45.

DATE: 7-11-11 PERSONNEL: G. GARCIA
WELL ID: MPL-26 J. PADILLA

AIR TEMP: 101 °F REL. HUM 22 %
WEATHER COND: SCATTERED CLOUDS 0-5 MPH

PUMP #: 11286 WATER QUALITY METER YSI #: 000079
DRUM: COMP 55 GAL WATER LEVEL IND #: 000044
GEN HRS: 1:10 TURBIDITY METER #: 000078

WELL TD: 255.00 DTGW (bgs): 214.18
DTW (TOC) 216.60 WATER COL: 40.82
LOC: 2.42 COL. VOL: 26.65
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 29.39 °C DO: 5.93 g/L TURB: 4.81 NTU
COND: 1.571 MS/CM PH: 7.23 $CO_2$: 12.0 MEDIUM RANGE mg/L
TDS: 1.021 mg/L ORP: 25.3 MV FERROUS METALS: 0.05 mg/L

SAMPLE DATE: 7-11-11
" TIME: 1425
" ID #: MNPL-MPL-MPL-026-0711

DATE: 7-11-11 WELL ID: MPL-26 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1400 | INIT | 29.84 | 1.518 | 0.987 | 6.40 | 7.41 | 27.7 | 6.12 |
| 1405 | 750 | 29.74 | 1.543 | 1.003 | 5.83 | 7.29 | 27.6 | 5.59 |
| 1410 | 1500 | 29.73 | 1.557 | 1.012 | 5.84 | 7.25 | 26.3 | 4.93 |
| 1415 | 2250 | 29.63 | 1.565 | 1.017 | 5.81 | 7.23 | 25.4 | 4.99 |
| 1420 | 3000 | 29.39 | 1.571 | 1.021 | 5.93 | 7.23 | 25.3 | 4.81 |
| | 3750 | | | | | | | |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1425 SAMPLE

NOTES: SET UP, PUMP SET @ 237.42, DRAWDOWN SET @ 217.50, CONTROLLER SET @ 0.55 CPM2
REFILL 15, DISCHARGE 15, PSI 115, START PURGE: 1344, 1ST WATER 1356,
FINISH 1445, TOTAL 1.01, INITIAL DRAWDOWN 216.50, FINAL 216.46.

DATE: 7-13-11 PERSONNEL: G. GARCIA
WELL ID: T-40 J. PADILLA

AIR TEMP: 98 °F REL. HUM: 25 %
WEATHER COND: CLOUDY 0-5 MPH

PUMP #: 11288 WATER QUALITY METER YSI #: 000079
DRUM: COMP 55GAL WATER LEVEL IND #: 000094
GEN HRS: 1:00 TURBIDITY METER #: 000078

WELL TD: 140.00 DTGW(bgs): 126.10
DTW(TOC): 128.54 WATER COL: 13.90
LOC: 2.44 COL VOL: 9.07
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 24.71 °C DO: 5.34 g/L TURB: 3.04 NTU
COND: 0.404 mS/cm PH: 7.72 CO2: 16.0 mg/L (MEDIUM BAND)
TDS: 0.262 mg/L ORP: 48.3 mV FERROUS METALS: 0.00 mg/L

SAMPLE DATE 7-13-11
" TIME 1400
" ID# MWPL-MPL-MPL-T-040-0711

DATE: 7-13-11 WELL ID: T-40 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1334 | INIT | 26.57 | 0.420 | 0.273 | 8.16 | 7.78 | 2.6 | 4.59 |
| 1338 | 750 | 24.88 | 0.409 | 0.266 | 7.04 | 7.81 | 41.3 | 4.00 |
| 1343 | 1500 | 24.00 | 0.405 | 0.263 | 5.74 | 7.75 | 47.1 | 3.93 |
| 1348 | 2250 | 24.25 | 0.402 | 0.262 | 5.75 | 7.71 | 48.2 | 4.02 |
| 1353 | 3000 | 24.80 | 0.403 | 0.262 | 5.37 | 7.70 | 47.3 | 3.70 |
| 1358 | 3750 | 24.71 | 0.404 | 0.262 | 5.34 | 7.72 | 48.3 | 3.04 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

400 SAMPLE

NOTES: SET-UP, PUMP SET @ 130.4, DRAWDOWN SET @ 129.88 CONTROLLER SET CM 2 ID 56,
REFILL 14, DISCHARGE 16, PSI 70, START PURGE 1327, 1ST WATER 1332,
FINISH 1412, TOTAL 0:45, INITIAL DRAWDOWN 130.38, FINAL 128.98.

DATE: 7-13-11 PERSONNEL: G. GARCIA
WELL ID: MPL-05 J. PADILLA

AIR TEMP: 100 °F REL. HUM 20 %
WEATHER COND: CLOUDY 0-5 mph

PUMP #: 000032 WATER QUALITY METER YSI #: 000079
DRUM: COMP 55 GAL WATER LEVEL IND #: 000094
GEN HRS 1:00 TURBIDITY METER #: 000078

WELL TD: 204.65 DTGW (bgs): 184.07
DTW (TOC) 186.05 WATER COL: 20.58
LOC: 1.98 COL. VOL: 13.43
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 25.33 °C D.O: 5.78 g/L TURB: 0.16 NTU
COND: 0.491 mS/cm PH: 7.90 CO2 8.0 MEDIUM RANGE mg/L
TDS: 0.319 mg/L ORP: 138.4 mV FERROUS IRON: 0.00 mg/L

SAMPLE DATE: 7-13-10
" TIME: 1510
" ID #: MNPL-MPL-MPL-005-074

DATE: 7-13-11 WELL ID: MPL-05 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1441 | INIT | 28.15 | 0.492 | 0.320 | 6.67 | 8.03 | 97.9 | 1.68 |
| 1446 | 750 | 26.23 | 0.493 | 0.320 | 6.18 | 8.03 | 111.3 | 3.38 |
| 1451 | 1500 | 25.67 | 0.491 | 0.319 | 5.94 | 7.99 | 115.6 | 1.52 |
| 1456 | 2250 | 25.45 | 0.491 | 0.319 | 5.81 | 7.94 | 129.6 | 0.86 |
| 1501 | 3000 | 25.42 | 0.591 | 0.317 | 5.71 | 7.90 | 126.4 | 0.29 |
| 1506 | 3750 | 25.33 | 0.491 | 0.319 | 5.78 | 7.90 | 138.4 | 0.16 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1510 SAMPLE

NOTES: SET-UP: PUMP SET @ 193.20, DRAWDOWN SET @ 186.79, CONTROLLER SET @ CPMW 7056
REFILL 14, DISCHARGE 16, PST 95, START PURGE 1432, 1ST WATER 1458
FINISH 1525, TOTAL 0.53, INITIAL DRAW DOWN 185.79, FINAL 186.02

DATE: 7-14-11 PERSONNEL: G. GALLIA
WELL ID: MPL-13 J. PADILLA

AIR TEMP: 80 °F REL HUM: 45 %
WEATHER COND: OVERCAST 0-5 MPH

PUMP #: 11286 WATER QUALITY METER #S/N: 000079
DRUM: COMP 55 GAL WATER LEVEL IND #: 000094
GEN HRS: 1'00 TURBIDITY METER #: 000078

WELL TD: 235.00 DTGW(bgs): 215.55
DTW(TOC): 218.37 WATER COL: 19.45
LOC: 2-82 COL. VOL: 12.70
WELL SIZE: 4"

SAMPLE PARAMETERS @ TIME OF COLLECTION)
TEMP: 23.71 °C DO: 6.56 SU TURB: 4.12 NTU
COND: 0.400 mS/cm PH 7.65 $CO_2$ 8.0 MEDIUM RANGE mg/L
TDS: 0.260 mg/L ORP: 154.6 MV FERROUS METALS 0.18 mg/L

SAMPLE DATE: 7-14-11
" TIME: 1100
" IOH: MWPL-MPL-MPL-DUP-0711

DATE: 7-14-11 WELL ID: MPL-13 PERSONNEL: G. GALLIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1038 | TEST | 24.04 | 0.400 | 0.260 | 7.36 | 7.72 | 122.1 | 5.53 |
| 1043 | 750 | 23.76 | 0.400 | 0.260 | 6.71 | 7.67 | 147.5 | 6.32 |
| 1048 | 1500 | 23.74 | 0.400 | 0.260 | 6.57 | 7.66 | 142.7 | 5.18 |
| 1053 | 2250 | 23.71 | 0.400 | 0.260 | 6.56 | 7.65 | 154.6 | 4.12 |
| ~~1103~~ 1103 | 3000 | ~~23.69~~ | | | | | | |
| | 3750 | | | | | | | |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1100 SAMPLE

NOTES: SET-UP, PUMP SET @ 124.19 DRAW DOWN SET @ 219.41, CONTROLLER SET @ 2036 hrs
REFILL 1/4, DISCHARGE 1/4, PSI 110, START PURGE 1027, STOP WATER 1035
FINISH 1120, TOTAL 0:53, INITIAL DRAW DOWN 218.11, FINAL 218.52

DATE: 7-14-11 PERSONNEL: G. GARCIA
WELL ID: SMW-4 J. PADILLA

AIR TEMP: 95 °F REL. HUM 39 %
WEATHER COND: PARTLY CLOUDY 0-5 MPH

PUMP #: 00090 WATER QUALITY METER USI #: 000079
DRUM: COMP 55 GAL WATER LEVEL IND #: 000094
GEN HRS: 1:15 TURBIDITY METER: 000078

WELL TD: 278.50 DTGW (logs): 251.75
DTW (TOC) 254.56 WATER COL: 26.75
LOC: 2-81 COL. VOL: 27.28
WELL SIZE: 5"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 27.06 °C DO: 4.76 g/L TURB: 1.26 NTU
COND: 0.378 µS/cm PH: 7.46 CO2: 24.0 MEDIUM RANGE mg/L
TDS: 0.246 mg/L ORP: 61.6 mV FERROUS METALS: 0.04 mg/L

SAMPLE DATE: 7-14-11
" TIME: 1400
" ID #: SGTP-6678-SMW-004-0711

DATE: 7-14-11 WELL ID: SMW-4 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1335 | INIT | 28.01 | 0.328 | 0.213 | 6.48 | 7.88 | 58.9 | 5.15 |
| 1340 | 750 | 27.81 | 0.371 | 0.241 | 5.11 | 7.62 | 62.7 | 2.18 |
| 1345 | 1500 | 27.68 | 0.380 | 0.247 | 4.83 | 7.55 | 61.7 | 1.33 |
| 1350 | 2250 | 27.28 | 0.380 | 0.247 | 4.86 | 7.50 | 61.2 | 1.16 |
| 1355 | 3000 | 27.06 | 0.378 | 0.246 | 4.76 | 7.46 | 61.6 | 1.26 |
| | 3750 | | | | | | | |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1400 SAMPLE

NOTES: SET-UP, PUMP SET @ 264.30, DRAWDOWN SET @ 255.15, CONTROLLER SET @ MN.
REFILL 50, DISCHARGE 30, PSI 120, START PURGE 1315, 1st WATER 1334,
FINISH 1420, TOTAL 1:05, INITIAL DRAWDOWN 254.15, FINAL 254.75.

DATE: 7-18-11 PERSONNEL: G. GARCIA
WELL ID: SMW-1 J. PADILLA

AIR TEMP: 89 °F REL. HUM 25 %
WEATHER COND: PARTLY CLOUDY

PUMP #: 00090 WATER QUALITY METER YSI # 000079
DRUM: COMP 55 GAL WATER LEVEL IND #: 000094
GEN HRS: TURBIDITY METER #: 000078

WELL TD: 286.28 DTGW (BGS): 209.39
DTW (TOC) 212.00 WATER COL: 76.89
LOC: 2.61 COL. VOL: 78.42
WELL SIZE: 5"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 28.77 & DO: 4.98 g/L TURB. 0.16 NTU
COND: 0.356 mS/cm PH: 7.00 $CO_2$ MEDIUM RANGE 20.0 mg/L
TDS: 0.232 mg/L ORP: 25.1 mV FERROUS METALS 0.03 mg/L

SAMPLE DATE: 7-18-11
" TIME: 1205
" ID #: SGTP-6678-SMW-001-0711

DATE: 7-18-11 WELL ID: SMW-1 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1138 | INIT | 31.27 | 0.421 | 0.274 | 6.62 | 7.97 | 8.4 | 1.53 |
| 1143 | 750 | 30.39 | 0.375 | 0.244 | 5.77 | 7.36 | 6.4 | 0.48 |
| 1148 | 1500 | 29.38 | 0.361 | 0.235 | 5.62 | 7.19 | 6.7 | 0.22 |
| 1153 | 2250 | 28.97 | 0.358 | 0.233 | 5.34 | 7.09 | 18.0 | 0.25 |
| 1158 | 3000 | 28.78 | 0.357 | 0.232 | 5.09 | 7.04 | 22.9 | 0.19 |
| 1203 | 3750 | 28.77 | 0.356 | 0.232 | 4.98 | 7.00 | 25.1 | 0.16 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1205

NOTES: SET-UP, PUMP SET @ 275.00, DRAWDOWN SET @ 212.45, CONTROLLER SET @ MW
REFILL 30, DISCHARGE 20, PSI 120, START PURGE 1126, 1st WATER 1137
FINISH 1220, TOTAL 0.154, INITIAL DRAWDOWN 211.45, FINAL 212.45

DATE: 7-20-11 PERSONNEL: S. GARCIA

WELL ID: MPL-02

AIR TEMP: 85 °F REL. HUM 25 %

WEATHER COND: CLEAR 0-5 MPH

PUMP #: 11288 WATER QUALITY METER #SN# 000079

DRUM: Comp 55 GAL WATER LEVEL IND #: 000094

GEN HRS: — TURBIDITY METER #: 000078

WELL ID: 219.59 DTGW (bgs) 196.66

DTG (TOC) 198.85 WATER COL: 19.93

LOC: 2.19 COL. VOL: 13.01

WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

T TEMP: 26.17 & DO: 5.53 % TURB: 2.71 NTU

C COND: 0.566 mS/cm PH: 7.51 MED. RANGE COR: 24.0 mg/L

T TDS: 0.368 mg/L ORP: 148.7 mV FERROUS METALS: 0.00 mg/L

SAMPLE DATE: 7-20-11

" TIME: 1115

" ID #: MWPL-MPL-MPL-002-0711

(TOTAL METALS) MWPL-MPL-MPL-002-0711

(RADIOLOGICAL) MWA-MPL-MPL-002-0711

DATE: 7-20-11 WELL ID: MPL-02 PERSONNEL: S. GARCIA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1053 | INIT | 26.13 | 0.571 | 0.371 | 6.68 | 7.78 | 148.2 | 5.11 |
| 0058 | 750 | 26.28 | 0.566 | 0.368 | 5.83 | 7.60 | 127.4 | 4.68 |
| 1103 | 1500 | 26.24 | 0.567 | 0.368 | 5.71 | 7.56 | 136.8 | 5.26 |
| 1108 | 2250 | 26.26 | 0.565 | 0.368 | 5.43 | 7.53 | 137.2 | 3.01 |
| 1113 | 3000 | 26.17 | 0.566 | 0.368 | 5.53 | 7.51 | 148.7 | 2.71 |
| | 3750 | | | | | | | |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1115 SAMPLE

CPM 2

NOTE: PUMP SET @ 208.20, DRAWDOWN SET @ 199.70 CONTROLLER SET @ 1058

REFILL 14, DISCHARGE 16, PSI 100, START PURGE 1057, 55 GALLON 1050

FINISH 1205, TOTAL 1:28, INITIAL DRAW DOWN 198.20, FINAL 198.83

DATE: 7-20-11 PERSONNEL: G-GALLITA
WELL ID: MPL-01 J PADELLA

AIR TEMP: 100 °F REL HUM 25 %
WEATHER COND: Cloudy 0-5 mph

PUMP #: 16286 WATER QUALITY METER YSI #: 00079
DRUM: 55 gal COMP WATER LEVEL IND: 00094
GEARS: TURBIDITY METER: 00078

WELL TD: 219.45 DTGW (BGS) 203.43
DTGW (TOC) 205.40 WATER COL: 16.02
LOC: 1.97 COL. VOL: 10.46
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 27.41 °C DO: 5.57 g/L TURB: 5.20 NTU
COND: 0.420 mS/cm PH: 7.78 CO2: 8 (after purge) mg/L
TDS: 0.273 mg/L ORP: 132.4 mV FERROUS METALS 0.01 mg/L

SAMPLE DATE: 7-20-11
" TIME: 1413
" ID#: MNPL-MPL-MPL-001-0711
MNPL-MPL-MPL-001-0711 (Total metals)
MNPL-MPL-MPL-001-0711 (Radiological)

DATE: 7-20-11 WELL ID: MPL-01 Personnel: G-Gallita, J. Padella

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1346 | Init. | 28.82 | 0.438 | 0.278 | 6.21 | 7.98 | 106.3 | 10.4 |
| 1351 | 750 | 26.77 | 0.421 | 0.273 | 6.21 | 7.88 | 107.0 | 8.74 |
| 1356 | 1500 | 26.74 | 0.418 | 0.272 | 6.01 | 7.82 | 133.3 | 6.92 |
| 1401 | 2250 | 27.08 | 0.420 | 0.273 | 5.70 | 7.78 | 144.5 | 6.98 |
| 1406 | 3000 | 27.19 | 0.419 | 0.272 | 5.57 | 7.77 | 139.7 | 5.25 |
| 1411 | 3750 | 27.41 | 0.420 | 0.273 | 5.57 | 7.78 | 132.4 | 5.20 |
| | 4500 | | | | | | | |
| 1413 | 5250 | Sample | | | | | | |

NOTES: SET-UP, PUMP SET @ 216.47, DRAWDOWN SET @ 205.05, CONTROLLER SET @ 3056 cpm2
REFILL 14, DISCHARGE 16, PSI 100, START PURGE 1335, 1ST WATER 1343
FINISH 1505, TOTAL 1:30, INITIAL DRAWDOWN 205.05, FINAL 205.22

DATE: 7-21-11 PERSONNEL: J. Padilla
WELL ID: MPL-04 G. Garcia

AIR TEMP: 92 °F REL HUM 35 %
WEATHER COND: Cloudy 0-5 mph

PUMP #: 11288 WATER QUALITY METER YSI #: 00079
DRUM: Comp 55 gal. WATER LEVEL IND: 00094
GEN HRS: TURBIDITY METER #: 00078

WELL TD: 224.65 DTGW (bgs): 186.29
DTW (TOC): 188.56 WATER COL: 38.36
LOC: 2.27 COL. VOL: 25.04
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 25.40 °C DO: 5.42 s/L TURB: 8.65 NTU
COND: 0.818 mS/cm PH: 7.21 $CO_2$: 18 median range mg/L
TDS: 0.532 mg/L ORP: 176.7 mv FERROUS METALS: 0.01 mg/L

SAMPLE DATE: 7-21-11
" TIME: 1033
" ID#: MNPL-MPL-MPL-004-0711
MNPL-MPL-MPL-004-0711-MS
MNPL-MPL-MPL-004-0711-MSD
MNPL-MPL-MPL-004-0711-(Radiological)

DATE: 7-21-11 WELL ID: MPL-4 PERSONNEL: J. Padilla, G. Garcia

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1006 | INIT | 26.86 | 0.818 | 0.532 | 6.73 | 7.42 | 137.8 | 13.2 |
| 1011 | 750 | 25.54 | 0.820 | 0.533 | 5.73 | 7.32 | 165.5 | 12.1 |
| 1016 | 1500 | 25.43 | 0.820 | 0.533 | 5.46 | 7.27 | 166.1 | 10.2 |
| 1021 | 2250 | 25.36 | 0.819 | 0.532 | 5.35 | 7.23 | 169.6 | 9.79 |
| 1026 | 3000 | 25.29 | 0.818 | 0.531 | 5.32 | 7.21 | 177.5 | 8.42 |
| 1031 | 3750 | 25.40 | 0.818 | 0.532 | 5.42 | 7.21 | 176.7 | 8.65 |
| | 4500 | | | | | | | |
| 1033 | 5250 | Sample | | | | | | |

NOTES: SET-UP, PUMP SET @ 212.62, DRAWDOWN SET @ 189.45, CONTROLLER SET @ IDH 56 CPM-2
REFILL 14, DISCHARGE 16, PSI 100, START PURGE 0953, 1ST WATER 1004,
FINISH 1300, TOTAL 3:07, INITIAL DRAWDOWN 188.45, FINAL 188.49

Date: 7-22-11 Personnel: J. Padilla
Well ID: MPL-3 G. Garcia

Air Temp: 95 Rel. Hum 28 %
Weather Cond: Windy 0-5 mph

Pump #: 11286 Water Quality Meter YSI#: 00079
Drum: Comp 55 gal Water Level Ind: 00096
Gen Hrs: Turbidity meter: 00078

Well TD: 227.92 DTGW(bgs): 190.63
DTW (TOC) 192.60 Water Col: 37.29
LOC: 1.97 Col. Vol. 24.35
Well Size: 4"

Sample Parameters @ Time of Collection

Temp: 24.37 °C DO: 4.84 g/l Turb: 1.54 ntu
Cond: 0.691 ms/cm pH: 7.35 $CO_2$: 10 medium range mg/l
TDS: 0.449 mg/l ORP: 173.5 mv Ferrous metals: 0.00 mg/l

Sample Date: 7-22-11
" Time: 1024
" ID#: MNPL-MPL-MPL-003-0711
MNPL-MPL-MPL-103-0711
MNPL-MPL-MPL-003-0711 (Total Metals)
MNPL-MPL-MPL-003-0711 (Radiological)

Date: 7-22-11 Well ID#: MPL-3 Personnel: J. Padilla, G. Garcia

| Time | Vol | Temp | Cond | TDS | DO | pH | ORP | Turb |
|---|---|---|---|---|---|---|---|---|
| 0958 | init. ~~26.54~~ J.P. | ~~0.69~~ 26.34 | 0.692 | 0.450 | 6.81 | 7.76 | 140.9 | 9.34 |
| 1003 | 750 ~~24.92~~ J.P. | 24.92 | ~~0.451~~ 0.694 | 0.451 | 5.49 | 7.50 | 157.5 | 6.10 |
| 1008 | 1500 ~~24.49~~ J.P. | 24.49 | ~~0.450~~ 0.692 | 0.450 | 5.38 | 7.43 | 166.7 | 4.23 |
| 1012 | 2250 | 24.39 | 0.691 | 0.449 | 5.11 | 7.39 | 171.7 | 2.55 |
| 1017 | 3000 | 24.54 | 0.691 | 0.449 | 4.96 | 7.37 | 176.8 | 1.66 |
| 1022 | 3750 | 24.37 | 0.691 | 0.449 | 4.84 | 7.35 | 173.5 | 1.54 |
| | 4500 | | | | | | | |
| 1024 | 5250 | Sample | | | | | | |

notes: set-up, Pump set @ 215.55 Drawdown set @ 193.40 Controller set @ CPM-2 ~~[illegible]~~
Refill 14, Discharge 16, PSI 70, Start Purge 0846, 1st water 0955
Finish 1200, Total 2:14, Initial Drawdown 192.40, Final 192.42

Date: 7-25-11 Personnel: G. GARCIA
Well ID: MPL-17 J. PADILLA

Air Temp: 90 Rel. Hum. 18 %
Weather Cond: CLEAR 0-2 mph

Pump #: 11288 Water Quality Meter YSI#: 000079
Drum: COMP 55 gal Water Level Ind: 000096
Gen Hrs: 1:10 Turbidity meter: 000078

Well TD: 225.00 DTGW(bgs): 175.76
DTW(TOC): 176.90 Water Col: 49.24
LOC: 1.14 Col. Vol.: 32.15
Well Size: 4"

Sample Parameters @ Time of Collection
Temp: 24.49 °C DO: 5.57 g/l Turb: 0.15 ntu
Cond: 0.467 ms/cm pH: 8.08 $CO^2$ 10.0 mg/l
TDS: 0.303 mg/l ORP: 84.8 mv Ferrous metals: 0.03 mg/l

Sample Date: 7-25-11
" Time: 0955
" ID#: MNPL-MPL-MPL-017-0711

Date: 7-25-11 Well ID#: MPL-17 Personnel: G. GARCIA, J. PADILLA

| Time | Vol | Temp | Cond | TDS | DO | pH | ORP | Turb |
|---|---|---|---|---|---|---|---|---|
| 0928 | INIT | 26.09 | 0.474 | 0.308 | 7.55 | 8.37 | 56.4 | 0.70 |
| 0933 | 750 | 24.92 | 0.470 | 0.306 | 6.71 | 8.18 | 66.4 | 0.38 |
| 0938 | 1500 | 24.62 | 0.467 | 0.304 | 6.38 | 8.13 | 74.1 | 0.27 |
| 0943 | 2250 | 24.51 | 0.467 | 0.303 | 5.82 | 8.10 | 78.4 | 0.16 |
| 0948 | 3000 | 24.50 | 0.467 | 0.303 | 5.77 | 8.08 | 80.5 | 0.21 |
| 0953 | 3750 | 24.49 | 0.467 | 0.303 | 5.57 | 8.09 | 84.8 | 0.15 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

0955 SAMPLE

Notes: Set-up, Pump Set @ 206.99, Drawdown Set @ 177.90, Controller Set @ 1056 CFM 2
Refill 14, Discharge 16, PSI 90, Start purge 0917, 1st water 0926
Finish 1015 Total 0.58, Initial Drawdown 176.90, Finish 172.00

DATE: 7-25-11 PERSONNEL: G. GARCIA
WELL ID: MPL-25 J. PADILLA

AIR TEMP: 98 °F REL. HUM 25 %
WEATHER COND: CLOUDY 0.5 MPH

PUMP #: 000089 WATER QUALITY METER YSI #000079
DRUM: COMP 559AL WATER LEVEL IND#: 000096
GEN HRS: TURBIDITY METER#: 000078

WELL TD: 275.00 DTGW (bgs) 254.55
DTW (toc): 256.40 WATER COL: 20.45
LOC: 1.85 COL. VOL: 13.35
WELL SIZE: 4"

SAMPLE PARAMETER (@ TIME OF COLLECTION)

TEMP: 32.66 °C DO: 5.50 g/L TURB: 0.56 NTU
COND: 0.498 mS/cm PH: 7.92 CO2: 16.0 MEDIUM RAGE mg/L
TDS: 0.324 mg/L ORP: 2.8 mV FERROUS METALS: 0.04 mg/L

SAMPLE DATE: 7-25-11
TIME: 1455
ID# MNPL-MPL-MPL-025-0711

DATE: 7-25-11 WELL ID: MPL-25 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1431 | TOT | 33.69 | 0.350 | 0.227 | 7.61 | 8.06 | 2.8 | 4.59 |
| 1436 | 750 | 33.44 | 0.477 | 0.310 | 5.37 | 7.95 | 2.9 | 3.27 |
| 1441 | 1500 | 33.11 | 0.496 | 0.322 | 5.47 | 7.94 | 2.6 | 0.83 |
| 1446 | 2250 | 32.89 | 0.498 | 0.324 | 5.61 | 7.93 | 2.7 | 0.53 |
| 1451 | 3000 | 32.66 | 0.498 | 0.324 | 5.50 | 7.92 | 2.8 | 0.56 |
| | 3750 | | | | | | | |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1455 SAMPLE

NOTE: SET-UP, PUMP SET @ 263.48, DRAWDOWN SET @ 257.19, CONTROLLER SET @ MN
REFILL 50, DISCHARGE 50, PST 120, START PURGE 1313, 1ST WATER 1480,
FINISH 1515, TOTAL 2.02, INITIAL DRAWDOWN 256.19, FINAL 256.30

DATE: 7-26-11 PERSONNEL: G GARCIA
WELL ID: MPL-23 J. PADILLA

AIR TEMP: 100 °F REL. HUM 30 %
WEATHER COND: PARTLY CLOUDY 0-5 MPH

PUMP #: 000090 WATER QUALITY METER YSI #: 000079
DRUM: COMP 55 GAL WATER LEVEL IND #: 000096
GEN HRS: 1:30 TURBIDITY METER #: 000078

WELL TD: 545.00 DTGW (DGS): 240.39
DTW (TOC): 243.50 WATER COL: 304.61
LOC: 3.11 COL. VOL: 310.70
WELL SIZE: 5"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 29.03 °C DO: 4.42 g/L TURB: 0.23 NTU
COND: 0.334 MS/CM PH: 7.08 $CO_2$: 12.0 MEDIUM RANGE mg/L
TDS: 0.217 mg/L ORP: -69.1 MV FERROUS METALS: 0.03 mg/L

SAMPLE DATE: 7-26-11
" TIME: 1348
" ID #: MWPL-MPL-MPL-023-074
MWK-MPL-MPL-123-074

DATE: 7-26-11 WELL ID MPL-23 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1319 | INIT | 31.49 | 0.366 | 0.238 | 5.72 | 9.26 | -94.0 | 1.2 |
| 1324 | 750 | 28.90 | 0.342 | 0.223 | 5.41 | 7.91 | -79.7 | 0.26 |
| 1329 | 1500 | 28.90 | 0.340 | 0.221 | 4.86 | 7.09 | -62.3 | 0.23 |
| 1334 | 2250 | 28.69 | 0.337 | 0.219 | 4.72 | 6.85 | -61.8 | 0.15 |
| 1339 | 3000 | 28.74 | 0.335 | 0.218 | 4.51 | 6.90 | -62.6 | 0.16 |
| 1344 | 3750 | 29.03 | 0.334 | 0.217 | 4.42 | 7.08 | -69.1 | 0.23 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1348

NOTES: SET-UP, PUMP SET @ 527.51, DRAWDOWN SET @ 244.36, CONTROLLER SET @ MW
REFILL 50, DISCHARGE 50, PSI 140, START PURGE 1255, 1st WATER 1316
FINISH 1415, TOTAL 1:20, INITIAL DRAWDOWN 243.36, FINAL 243.45

DATE: 7-27-11 PERSONNEL: G. GARCIA
WELL ID: MPL-24 J. PADILLA

AIR TEMP: 98 °F REL. HUM 29 %
WEATHER COND: CLOUDY 0-5

PUMP #: 000090 WATER QUALITY METER USI #000079
DRUM: COMP 55 GAL WATER LEVEL IND: 000090
GEN HRS: TURBIDITY METER #: 000078

WELL TD: 315.00 DTOW (bgs) 236.74
DTW (TOC): 238.90 WATER COL: 78.26
LOC: 2.16 COL. VOL: 79.82
WELL SIZE: 5"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 30.01 °C DO: 5.11 g/L TURB: 0.12 NTU
COND: 0.498 MS/CM PH: 7.71 $CO_2$: 14.0 MED RANGE mg/L
TDS: 0.305 mg/L ORP: 147.1 MV FERROUS METALS: 0.05 mg/L

SAMPLE DATE: 7-27-11
" TIME: 1240
" ID #: MNPL-MPL-MPL-024-0711

DATE: 7-27-11 WELL ID: MPL-24 PERSONNEL G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1211 | INIT | 33.96 | 0.428 | 0.278 | 6.01 | 8.34 | 59.0 | 0.90 |
| 1216 | 750 | 33.06 | 0.463 | 0.301 | 5.17 | 7.95 | 80.1 | 0.72 |
| 1221 | 1500 | 31.57 | 0.470 | 0.305 | 5.63 | 7.82 | 112.2 | 0.24 |
| 1226 | 2250 | 30.58 | 0.470 | 0.305 | 5.68 | 7.75 | 126.5 | 0.27 |
| 1231 | 3000 | 30.12 | 0.469 | 0.305 | 5.27 | 7.72 | 142.0 | 0.28 |
| 1236 | 3750 | 30.01 | 0.468 | 0.305 | 5.11 | 7.71 | 147.1 | 0.12 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1240 SAMPLE

NOTES: SET-UP, PUMP SET @ 302.16, DRAWDOWN SET @ 239.60, CONTROLLER SET @ 4W
REFILL 15, DISCHARGE 15, PSI 125, START PURGE 1148, 1ST WATER 1200
FINISH 1315, TOTAL 1:27, INITIAL DRAWDOWN 238.60, FINAL 238.68

DATE: 7-28-11 PERSONNEL: GARCIA
WELL ID: MPL-19. J. PADILLA

AIR TEMP: 90 °F REL. HUM 25 %
WEATHER COND: clear C-5 mph

PUMP #: 000090 WATER QUALITY METER #: 000029
DRUM: COMP 55 GAL WATER LEVEL #: 000080
GEN HRS: 1:15 TURBIDITY METER #: 000078

WELL TD: 475.00 DTW (bgs) 191.71
DTW (TOC) 194.24 WATER COL: 283.29
LOC: 2.53 COL. VOL: 288.95
WELL SIZE: 5"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 27.40 °C DO: 4.57 % TURB: 0.12 NTU
COND: 0.337 mS/cm PH: 7.71 CO2: 12.0 MEP RANGE mg/L
TDS: 0.219 mg/L ORP: 44.1 mV FERROUS METHS: 0.14 mg/L

SAMPLE DATE: 7-28-11
" TIME: 1035
" I.D.# MWPL-MPL-MPL-016-0711

DATE: 7-28-11 WELL ID: MPL-19 PERSONNEL: G. GARCIA, J. PADILLA

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1002 | INIT | 30.00 | 0.323 | 0.242 | 17.64 | 8.24 | 42.4 | 0.70 |
| 1012 | 750 | 26.90 | 0.345 | 0.224 | 5.59 | 7.82 | 46.9 | 0.27 |
| 1017 | 1500 | 26.37 | 0.340 | 0.221 | 5.02 | 7.69 | 46.5 | 0.34 |
| 1022 | 2850 | 26.73 | 0.338 | 0.220 | 4.74 | 7.67 | 46.2 | 0.15 |
| 1027 | 3300 | 27.17 | 0.337 | 0.219 | 4.95 | 7.68 | 44.8 | 0.15 |
| 1032 | 3750 | 27.40 | .337 | .219 | 4.57 | 7.71 | 44.1 | 0.12 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1035 SAMPLE

NOTES: SET-UP, PUMP SET @ 454.89 DRAWDOWN SET @ 194.64 CONTROLLER SET @ MW
REFILL 50 DISCHARGE 50 PSI ---, START PURGE @ 1/35 / STOP PURGE @ 1046,
FINAL # 1046, TOTAL 1:15, INITIAL DRAWDOWN 195.64, FINAL 194.29

DATE: 7-28-11 PERSONNEL: J. Padilla
WELL ID: MPL-20 G. Garcia

AIR TEMP: 95 °F REL. HUM 35 %
WEATHER COND: cloudy 0-5 mph

PUMP #: 000090 WATER QUALITY METER YSI #00079
DRUM: 55 gal temp WATER LEVEL INDIH: 000090
GEN HRS: TURBIDITY METER: 000078

WELL TD: 335.00 DTW (bgs): 190.79
DTW (bc): 193.26 WATER COL: 134.21
LOC: 2.47 COL. VOL: 136.89
WELL SIZE: 5"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 30.94 °C DO: 4.73 % TURB: 0.14 NTU
COND: 0.679 mS/cm PH: 7.54 COR 14 medium range
TDS: 0.441 mg/L ORP: 113.3 mV FERROUS METHS: 0.07 mg/L

SAMPLE # 4
DATE: 7-28-11
TIME: 1359
ID #: MNPL-MPL-MPL-020-0711
MNPL-MPL-MPL-120-0711

DATE: 7-28-11 WELL ID: MPL-20 PERSONNEL: J. Padilla, G. Garcia

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1321 | Dust | 31.82 | 0.415 | 0.270 | 6.14 | 7.62 | 28.4 | 0.55 |
| 1327 | 750 | 30.63 | 0.443 | 0.208 | 5.73 | 7.65 | 29.1 | 0.41 |
| 1333 | 1500 | 30.01 | 0.595 | 0.387 | 6.55 | 7.49 | 61.3 | 0.21 |
| 1339 | 2250 | 29.99 | 0.648 | 0.421 | 6.14 | 7.46 | 80.8 | 0.22 |
| 1345 | 3000 | 30.17 | 0.669 | 0.435 | 5.57 | 7.48 | 93.8 | 0.22 |
| 1351 | 3750 | 30.59 | 0.678 | 0.441 | 5.03 | 7.571 | 98.6 | 0.20 |
| 1357 | 4500 | 30.94 | 0.679 | 0.441 | 4.73 | 7.54 | 113.3 | 0.14 |
| 1359 | 5250 | Sample | | | | | | |

NOTES: SET-UP, PUMP SET @ 310.78, DRAWDOWN SET @ 190.00, CONTROLLER SET @ MM
REFILL 50, DISCHARGE 50 / RE 135, START PURGE 1302 / STABILIZED 1318
FINISH 1315, TOTAL L: 13, INITIAL DRAWDOWN 193.00, FINISH 193.19

DATE: 8-1-11 PERSONNEL: G GARCIA
WELL ID: MPL-21 B. DAVIS

AIR TEMP: 98 °F REL. HUM 30 %
WEATHER COND: Clear

PUMP# 000090 WATER QUALITY METER YSI: 000079
DRUM COMP 559AL WATER QUALITY IND#: 000090
GEN HRS TURBIDITY METER#: 000078

WELL TD: 445.00 DTGW (bgs) 188.10
DTW (TOC) 190.20 WATER COL: 256.90
LOC: 210 COL. VOL: 262.03
WELLSIZE: 5"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 27.51°C DO: 3.75 g/L TURB: 0.06
COND: 0.327 mS/cm PH: 7.74 CO2 FERROUS: 12.0 mg/L Med Range
TDS: 0.213 mg/L ORP: 29.7 mV METALS: 0.02 mg/L

SAMPLE ~~TIME~~ DATE 8-1-11
TIME: 1104
ID# MNPL-MPL-MPL-021-0811
MNPL-MPL-MPL-021-0811-MS
MNPL-MPL-MPL-021-0811-MSD

DATE: 8-1-11 WELL ID: MPL-21 PERSONNEL: G. GARCIA, B. DAVIS

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1034 | INIT | 28.67 | 0.361 | 0.235 | 6.35 | 8.23 | 32.3 | 0.80 |
| 1039 | 750 | 27.78 | 0.341 | 0.221 | 4.43 | 7.86 | 32.8 | 0.43 |
| 1044 | 1500 | 27.25 | 0.331 | 0.215 | 3.99 | 7.76 | 32.2 | 0.11 |
| 1049 | 2250 | 27.26 | 0.330 | 0.214 | 3.71 | 7.74 | 31.4 | 0.11 |
| 1054 | 3000 | 27.41 | 0.328 | 0.213 | 3.70 | 7.73 | 30.6 | 0.10 |
| 1059 | 3750 | 27.54 | 0.327 | 0.213 | 3.75 | 7.74 | 29.7 | 0.06 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

NOTES: SET-UP, PUMP SET @ 432.10, DRAWDOWN SET @ 191.10, CONTROLLER SET @ MN
REFILL 50, DISCHARGE 50, PSI 180, START PURGE 1004, 1ST WATER 1032.6
FINISH 1138, TOTAL 1134, INITIAL DRAWDOWN 190.10, FINISH 190.12

DATE: 8-1-11 PERSONNEL: G. GARCIA
WELL ID: MPL-22 B. DAVIS

AIR TEMP: 100 °F REL. HUM 30 %
WEATHER COND: Cloudy 0.5 mph

PUMP #: 000098 WATER QUALITY METER YSI #: 000079
DRUM: COMP 55 WATER LEVEL IND #: 000090
GEN HRS: TURBIDITY METER #: 000078

WELL TD: 310.00 DTGW (bgs): 186.89
DTW (TOC): 189.41 WATER COL: 123.11
LOC: 2-53 COL. VOL: 125.57
WELL SIZE: 5"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 30.98 °C DO: 1.46 g/L TURB: 0.31 NTU
COND: 0.240 mS/cm PH: 8.29 $CO_2$: 8.0 MED RANGE mg/L
TDS: 0.156 mg/L ORP: 11.9 mV FERROUS IRON: 0.05 mg/L

SAMPLE DATE: 8-1-11
" TIME: 1440
" ID#: MNPL-MPL-MPL-022-084

DATE: 8-1-11 WELL ID: MPL-22 PERSONNEL: G. GARCIA, B. DAVIS

| TIME | VOL | TEMP | COND | TDS | DO | PH | ORP | TURB |
|---|---|---|---|---|---|---|---|---|
| 1413 | INIT | 33.94 | 0.402 | 0.261 | 4.60 | 8.55 | 10.3 | 1.92 |
| 1418 | 750 | 32.94 | 0.280 | 0.182 | 3.19 | 8.45 | 10.4 | 0.61 |
| 1423 | 1500 | 32.76 | 0.265 | 0.172 | 2.74 | 8.39 | 9.6 | 0.66 |
| 1428 | 2250 | 31.65 | 0.250 | 0.162 | 2.51 | 8.35 | 9.5 | 0.53 |
| 1433 | 3000 | 31.14 | 0.243 | 0.158 | 1.68 | 8.30 | 10.7 | 0.61 |
| 1438 | 3750 | 30.98 | 0.240 | 0.156 | 1.46 | 8.29 | 11.9 | 0.31 |
| | 4500 | | | | | | | |
| | 5250 | | | | | | | |

1440 SAMPLE

NOTES: SET-UP, PUMP SET @ 297.53, DRAWDOWN SET @ 190.20, CONTROLLER SET @ MN
REFILL 50, DISCHARGE 50, PSI 30, START PURGE 1353, 1ST WATER 1410
FINISH 1457, TOTAL 1:04, INITIAL DRAWDOWN 189.20, FINISH 189.35

7-5-11

| Well ID | DTW(TOC) | TD(TOC) | Time |
|---|---|---|---|
| MPL-11 | 243.95 | 329.00 | 0705 |
| SMW-2 | 256.23 | 282.35 | 0720 |
| SMW-3 | 257.08 | 278.28 | 0738 |
| MPL-14 | 205.68 | 233.40 | 1200 |
| T-35 | 216.35 | 271.70 | 0715 |
| B-02 | DRY | 62.65 | 0700 |
| B-04 | 212.70 | 252.75 | 0742 |
| MPL-8 | 247.63 | 278.50 | 0740 |
| T-29 | 208.75 | 253.06 | 0806 |
| B-3 | 215.98 | 281.59 | 0820 |
| T-11 | 281.00 | — | 0838 |
| T-37 | 220.52 | 272.85 | 0900 |
| T-34 | 199.20 | 365.65 | 0910 |
| MPL-15 | 242.00 | 243.45 | 0928 |
| B-5 | 195.63 | 242.90 | 0940 |
| B-51 | 150.15 | 322.30 | 1000 |
| T-41 | — | — | |
| T-42 | 123.95 | 139.93 | 1020 |
| B-10 | 309.42 | 385.85 | 1040 |
| MPL-27 | 256.03 | 288.11 | 1049 |
| MPL-9 | — | — | DRY 1055 |
| MPL-12 | 209.35 | 268.95 | 1110 |