LOW FLOW SAMPLING

EQUIPMENT USED 250' WELLS.
CONTROLLER - MICRO PURGE BASICS (QED)
MODEL # MP-10 TAG # 000009.
DRAWDOWN METER MODEL MP-30 TAG # 0006
TURBIDITY METER - THERMO ORION MODEL
AQ4500 TAG # 000070.
WATER LEVEL INDICATOR. SOLINST TAG # 085
WATER QUALITY METER - YSI 556 MULTI
PROBE SYSTEM W/IN LINE FLOW THROUGH
CELL TAG # 000079.
BLADDER PUMPS ARE DEDICATED + CUT
TO LENGHT IN THE WELLS TO BE
SAMPLED.

SAMPLING PROCEDURES ACCORDING WITH
LOW-FLOW MINIMAL DRAWDOWN SAMPLING
PROCEDURES, AS DISCRIBED IN THE US EPA
(1996)

WATER LEVEL MEASUREMENTS

8-10-11

WELL ID	DTW (TOC)	TD (TOC)	TIME
RMW-01	83.~~84~~ 70 (BTD)	94.80	0920
RMW-02	75.94	89.25	1156
RMW-03	74.92	99.75	1100
RMW-04	82.01	93.16	1145
RMW-05	74.25	92.00	09:10
RMW-06	77.61	92.86	1020

WELLS TO BE SAMPLED

RMW-01 MS/MSD
RMW-03
RMW-05 - QC
RMW-06

DATE: 8-10-11 PERSONNEL: G. GARCIA
WELL ID: RMW-1 A. MARTINEZ

AIR TEMP: 90 °F REL. HUM 35 %
WEATHER COND: CLEAR 0-8.

PUMP #: DED PUMP WATER QUALITY METER YSI #000079
DRUM: COMP 15 gal WATER LEVEL IND #: 000095
GEN HRS: 1:15 TURBIDITY METER #: 000070

WELL TD: 94.0 DTGW (bgs) 81.39
DTW (TOC) 83.70 WATER COL: 12.61
LOC: 2.31 COL. VOL: 8.23
WELL SIZE 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 21.74 °C TDS: 5.405 g/L ORP. 22.4 MV.
COND: 8.315 mS/cm DO 6.18 mg/L
TURB: 0.49 NTU PH 7.20

SAMPLE DATE: 8-10-11
" TIME: 1010
" ID #: RCRC-0114-RMW-001-0814
RCRC-0114-RMW-001-0811-MS/MSD

DATE: 8-10-11 WELL ID: RMW-1 PERSONNEL: G. GARCIA, A. MARTINEZ

TIME	VOL	TEMP	COND	TDS	DO	PH	ORP	TURB
0938	INIT	22.60	8.393	5.456	8.34	7.65	15.0	0.56
0944	750	21.67	8.336	5.419	6.75	7.34	18.0	0.25
0950	1500	21.66	8.321	5.409	6.55	7.25	19.7	0.40
0956	2250	21.68	8.317	5.406	6.37	7.22	20.6	0.32
1002	3000	21.68	8.317	5.406	6.26	7.21	21.5	0.43
1008	3750	21.74	8.315	5.405	6.18	7.20	22.4	0.49
	4500							
	5250							
1010	Sample-							

NOTES: SET-UP, PUMP SET @ DED PUMP 98.00, DRAWDOWN SET @ 84.80, CONTROLLER SET @ MN
REFILL 15, DISCHARGE 15, PSI 40, START PURGE @ 0933, 1st WATER 0935
FINISH 1033, TOTAL 1:00, INITIAL DRAWDOWN 83.80, FINAL 83.90

DATE: 8-10-11 PERSONNEL: G. GARCIA
WELL ID: RMW-3 A. MARTINEZ

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

PUMP #: DED PUMP WATER QUALITY METER YSI #: 000079
DRUM: CUMP 159 AL WATER LEVEL IND #: 000095
GEN HRS: 1:00 TURBIDITY METER #: 000078

WELL TD: 89.00 DTGW (bgs): 72.53
DTW (bgs) 74.92 WATER COL: 16.47
LOC: 2.39 COL. VOL: 10.75
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 25.05 & DO: 3.16 mg/L TURB: 0.77 NTU
COND: 9.502 mS/cm PH: 6.88
TDS: 6.176 g/L ORP: 18.6 mV

SAMPLE DATE: 8-10-11
" TIME: 1145
" ID#: RCRC-0114-RMW-003-0811

DATE: 8-10-11 WELL ID: RMW-3 PERSONNEL: G. GARCIA, A. MARTINEZ

TIME	VOL	TEMP	COND	TDS	DO	PH	ORP	TURB
1114	INIT	25.73	9.943	6.463	7.12	7.00	21.8	0.49
1120	750	24.33	9.568	6.219	5.01	6.85	21.9	0.51
1126	1500	24.58	9.512	6.183	4.12	6.86	21.0	0.86
1132	2250	24.99	9.499	6.174	3.67	6.87	20.0	0.80
1138	3000	25.27	9.505	6.178	3.35	6.89	19.0	0.83
1144	3750	25.05	9.502	6.176	3.16	6.88	18.6	0.77
	4500							
	5250							
1145	Sample							

NOTES: SET-UP, PUMP SET @ 82.0 DED PUMP, DRAWDOWN SET @ 75.88, CONTROLLER SET @ MSU
REFILL 15, DISCHARGE 15, PSI 40, START PURGE @ 1108, 1ST WATER @ 1112
FINISH 1154, TOTAL 0:46, INITIAL DRAWDOWN 74.88, FINAL 75.05.

DATE: 8-11-11 PERSONNEL: O. GARCIA
WELL ID: RMW-5 A. MARTINEZ

AIR TEMP: 98 °F REL. HUM 24 %
WEATHER COND: CLEAR 0-5 MPH

PUMP #: DED PUMP WATER QUALITY METER YSI #: 000079
DRUM: COMP 159 AL WATER LEVEL INDICATOR #: 000095
GEN HRS: 1:10 TURBIDITY METER #: 000078

WELL TD: 89.00 DTGW (bgs): 71.82
DTW (TOC) 74.25 WATER COL: 17.18
LOC: 2.43 COL. VOL: 11.21
WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)
TEMP: 24.15 °C DO: 2.52 mg/L TURB: 0.63 NTU
COND: 11.37 mS/cm PH: 6.88
TDS: 7.393 g/L ORP: 4.1 mV

SAMPLE DATE: 8-11-11
" TIME: 1000
" ID#: RCRC-0114-RMW-005-0811

DATE: 8/11/11 WELL ID: RMW-5 PERSONNEL: G. Garcia, A. Martinez

TIME	VOL	TEMP	COND	TDS	DO	PH	ORP	TURB COND
0934	INIT	28.03	5.996	3.898	9.24	7.59	1.5	0.38
0940	750	24.66	11.49	7.468	5.18	7.12	3.5	0.54
0946	1500	24.49	11.39	7.464	3.46	6.96	3.1	0.79
0952	2250	24.91	11.39	7.390	2.95	6.91	3.3	0.55
0958	3000	24.15	11.37	7.393	2.52	6.88	4.1	0.63
	3750							
	4500							
	5250							
1000	Sample							

DED PUMP

NOTE: SET-UP, PUMP SET @ 81.00, DRAW DOWN SET @ 75.19, CONTROLLER SET @ CPM3 ID 78
REFILL 13, DISCHARGE 7, PSI N/A, START PURGE @ 0928, / SI WATER @ 0932
FINISH 1018, TOTAL 1:00, INITIAL DRAW DOWN @ 74.19, FINAL 74.29

DATE: 8-11-11 PERSONNEL G. GARCIA.
WELL ID: RMW-6 A. MARTINEZ

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

PUMP #: DED PUMP WATER QUALITY METER YSI #: 000079
DRUM: COMP 15GAL WATER LEVEL IND #: 000095
GEN HRS: 1:00 TURBIDITY METER #: 000078

WELL TD: 90.0 DTGW (bgs): 74-51
DTW (bgs) 77.01 WATER COL: 15-49
LOC: 2.50 COL. VOL: 10-11
WELL SIZE: 4"

SAMPLE PARAMATERS (@ TIME OF COLLECTION)
TEMP: ~~28.81~~ BTD °C DO: 1.52 mg/L TURB: 2.57 MTU
COND: 10.73 mS/cm PH: 6.72
TDS: 6.974 g/L ORP: 12.8 MV
Temp: 23.12 °C

SAMPLE DATE: 8-11-11
" TIME: 1120
" ID #: RCRC-0114-RMW-006-084
* ROOTS ON E-LINE & IN WELL

DATE: 8-11-11 WELL ID: RMW-6 PERSONNEL: G. Garcia, A. Martinez

TIME	VOL	TEMP	COND	TDS	DO	PH	ORP	TURB
1035	INIT	28.81	0.024	0.016	6.93	7.85	-2.6	1.47
1043	750	23.56	10.56	6.862	4.40	6.86	8.2	3.40
1051	1500	23.38	10.80	7.022	1.98	6.74	10.7	3.64
1059	2250	23.06	10.82	7.036	1.50	6.72	11.4	3.68
1109	3000	22.98	10.78	7.008	1.40	6.72	12.7	3.68
1118	3750	23.12	10.73	6.974	1.52	6.72	12.8	2.57
	4500							
	5250							
1120	· Sample							

NOTES: SET-UP, PUMP SET @ 92.00 DED PUMP, DRAWDOWN SET @ 77.89, CONTROLLER SET @ MN
REFILL 15, DISCHARGE 15, PSI 40, START PURGE @ 1033, 1ST WATER @ 1037
FINISH 1130, TOTAL 0:56, INITIAL DRAWDOWN 76.89, FINAL 77.10