MPL # 3
Spring 2012 3-5-12

Well ID	DTW (TOC) ft	TD (TOC) ft	Time
MW-09 ✓	219.54	230.30	1145
MW-10 ✓	200.21	216.0	1152
MW-11 ✓	197.25	216.0	1156
MW-12 ✓	194.62	211.0	1200

- Duplicate ✓
- ms/msd ✓
- Equipment blank ✓
- Field Blank (VOCs) ✓

B. Davis

Date: 3-5-12 SWMU 65

Well ID: MW-9 Personnel: B. Davis, A. Jeanes

Air Temp: 61°F

Weather: 0-5mph wind - clear.

Pump #: 00032 Water Quality Meter: 000012

Drum: 55gal comp. Water Level Ind.:

Turbidity meter: 000011

Well TD: 230.3 ft DTW (bgs): 216.94 ft.

DTW (TOC): 219.54 ft

LOC: 2.60 ft

Well Size: 5"

Sample Parameters

Temp: 21.56°C TDS: 0.198 g/L ORP: 22.4 mV

Cond: 0.305 mS/cm DO: 4.83 mg/L Turb: 0.50 NTU

pH: 6.97

Sample Date: 3-5-12

Time: 1245

ID: 0065-MW-009-0312

0065-MW-009-0312-ms/msd

Date: 3-5-12 Well ID: MW-9

	Time	mL Vol	°C Temp	mS/cm Cond	g/L TDS	mg/L DO	pH	mV ORP	NTU Turb
1208	~~1255~~	init	20.89	0.231	0.150	5.38	7.04	38.2	0.45
1215	~~1302~~	750	21.13	0.262	0.170	4.87	7.20	28.2	0.36
1220	~~1307~~	1500	21.26	0.282	0.184	5.07	7.24	30.0	0.42
1225	~~1313~~	2250	21.37	0.296	0.193	4.88	6.92	39.3	0.32
	1230	3000	21.46	0.302	0.196	4.80	6.88	28.8	0.45
	1235	3750	21.54	0.305	0.198	4.83	6.97	22.4	0.50

1245 - Sample

Setup: Pump set @ 221, Drawdown set @ 220.54, Controller set @ ~~GPM2~~ MN BTC

Refill 15, Discharge 15, PSI 100, Start Purge 1140, 1st Water ~~1128~~ 1150

Finish 1420, Total Time 2:40, Initial Drawdown 220.60, Final Drawdown 220.65

Date: 3-6-12 SWMU:
Well ID: MW-12 personnel: B. Davis, R. Wu

Air Temp: 55°F
Weather: Clear - breeze 0-5 mph

Pump#: 000032 (34) Water Qual. Meter: 000012 (YSI)
Drum: 5 gal Water Level Ind: 000018
Comp. Turbidity meter: 000011

Well TD: 211.0 ft DTW(bgs): 192.00 ft
DTW(TOC): 194.60 ft
LOC: 2.60 ft
Well Size: 5"

Sample Parameters

Temp: 24.35°C TDS: 0.241 g/L ORP: -1.6 mV
Cond: 0.370 mS/cm DO: 4.87 mg/L Turb: 0.80 NTU
pH: 7.42

Sample Date: 3-6-12
Time: 1045
ID: 0065-MW-012-0312
0065-MW-112-0312

Equipment Blank: Time - 1245 0065-MW-RB-0312

Date: 3-6-12 Well ID: MW-12

Time	Vol mL	Temp °C	Cond mS/cm	TDS g/L	DO mg/L	pH	ORP mV	Turb NTU
0942	init.	21.08	0.364	0.237	8.28	7.52	-15.2	2.03
0952	500	22.00	0.367	0.239	5.53	7.47	-16.9	1.83
1002	1000	22.94	0.368	0.239	5.30	7.43	-11.1	1.18
1010	1500	23.35	0.370	0.240	5.13	7.42	-8.6	0.97
1018	2000	22.84	0.370	0.240	5.06	7.42	-5.1	0.85
1032	2500	24.35	0.370	0.241	4.87	7.42	-1.6	0.80
1045- Sample								

Setup: Pump Set @ 195 ft, Drawdown Set @ 195.60 ft, Cont. Set @ 194.
Refill 20, Discharge 10, PSI 100, Start Purge 0926 1st Water 0931
Finish 1225, Total Time 2:59, Initial Drawdown 194.85, Final Drawdown 195.21

Date: 3-6-12 SWMU: 65
WellID: MW-11 Personnel: B. Davis

Air Temp: 77°F
Weather: 15-20 mph wind - Clear

Pump#: 000034 Water Qual Meter: 00012
Drum: 5 gal Comp Water Level Indi: 000018
Turbidity Meter: 000011

Well TD: 216.6 ft DTW (TOC): 194.97 ft
DTW (TOC): 197.22 ft.
Loc: 2.25 ft
Well size: 5"

Sample Parameters

Temp: 24.01°C TDS: 0.251 g/L ORP: 3.4 mV
Cond: 0.386 mS/cm DO: 4.94 mg/L Turb: 0.91 NTU
pH: 7.41

Sample Date: 3-6-12
Time: 1440
ID: 0065-MW-011-0312
Field Blank: 0065-MW-FB-0312

Date: 3-6-12 well ID: MW-11

Time	Vol (mL)	Temp (°C)	Cond (mS/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Turb (NTU)
1357	init	24.41	0.387	0.252	5.31	7.38	7.3	1.66
1405	500	24.22	0.387	0.252	4.94	7.42	3.4	0.97
1412	1000	24.15	0.387	0.251	5.03	7.40	3.4	0.93
1421	1500	24.10	0.387	0.251	5.04	7.43	2.5	0.93
1429	STD ~~2500~~ 2000	24.01	0.386	0.251	4.84	7.41	3.4	0.91

1440 - Sample

Setup: Pump set @ 203 ft, Drawdown Set @ 198.22, Controller Set @ CH2
Refill 20, Discharge 10, PSI 110, Start Purge 1338, 1st water 13'46
Finish 1535, Total Time 1:57, Initial Drawdown 197.55, Final Drawdown 197.91'

Date: 3-7-12 SWMU: 65
Well ID: MW-10 Personnel: B. Davis
R. Wu

Air Temp: 63°F
Weather: 20-30mph winds (P) cloudy.

Pump #: 000034 Water Qual. Meter: 000012
Drum: 5 gal Comp. Water Level Ind.: 000018
Turbidity meter: 000011

Well TD: 216.0 ft DTW (bgs):
DTW (Toc): 200.19 ft
Loc: 2.40 ft.
Well Size: 5"

Sample Parameters

Temp: 22.72°C TDS: 0.214 g/L ORP: -79.5 mV
Cond: 0.329 mS/cm DO: 3.62 mg/L Turb: 9.27 NTU
pH: 6.55

Sample Date: 3-7-12
Time: 1120
ID: 0065-MW-010-0312

Date: 3-7-12 Well ID: MW-10

Time	Vol (mL)	Temp (°C)	Cond (mS/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Turb (NTU)
1044	init	22.61	0.325	0.212	4.98	6.41	-87.3	8.02
1049	500	22.66	0.328	0.213	5.32	6.52	-91.0	8.31
1054	1000	22.61	0.329	0.214	4.72	6.49	-88.1	8.03
1059	1500	22.60	0.329	0.214	4.24	6.51	-85.9	8.56
1104	2000	22.64	0.329	0.214	3.85	6.53	-82.6	8.51
1109	2500	22.72	0.329	0.214	3.62	6.55	-79.5	9.27

1120 - Sample

Notes: Pump problems - replaced gaskets.

Setup: Pump Set @ 204 ft, Drawdown Set @ 201.19 ft, Cont. Set @ CPM 20 50
Refill 20, Discharge 10, PSI 100, Start Purge ~~0925~~ 1030-0948, 1st water 1036
Finish 1235, Total Time 2:05, Initial Drawdown 200.41, Final Drawdown 200.75