3-8-12

Well ID	ft DTW(TOC)	ft TD(TOC)	ft DTP(TOC)	Time
DRW-1P	47.14	60.0	42.92	1246
DRW-2P	51.10	~~60.40~~	44.04	1225
DRW-3P	54.53	61.69	43.52	1234
DRW-4	43.72ft	61.20	—	1238
DRW-5P	45.09	61.27	—	1219
DRW-12	46.17	62.07	—	1136
DRW-13	45.38	62.89	—	1200
DRW-16	71.87	92.~~78~~ 87.65	—	1213
HCF-1	47.52	64.58	—	1207
HCF-5P	52.03	62.73	43.33	1243
HCF-7P	51.45	62.33	45.13	1229
HMW-36	20.69	23.75	—	1111
HMW-37	42.48	45.16	—	1115
HMW-38	47.55	63.73	—	1118
HMW-39	46.17	64.91	—	1105
HMW-40	24.68	40.47	—	1055
HMW-41	44.52	61.28	—	1058
HMW-43	44.90	65.50	—	1123
HMW-29	73.34	80.68	—	1015
HMW-32	72.99	92.17	—	1004
HMW-33	42.99	52.83	—	1047
HMW-11	46.01	65.72	—	1127
HMW-13	45.32	48.84	—	1141
HMW-34	74.52	92.67	—	1028
HMW-35	73.21	86.87	—	1021
✓ HMW-8	76.18ft	99.41	—	0944
HMW-59	75.09	87.67	—	1035

DATE: 3-13-12 PERSONNEL: B. Davis R. Wu

WELL ID: HMW-41

AIR TEMP - 61 °F REL HUM 25 %

WEATHER COND: - clear - 0-5 mph

PUMP #: 000034 WATER QUALITY METER YSI #: 000012

DRUM: Comp WATER LEVEL IND #: 000018

GEN HRS: ∅ TURBIDITY METER #: 000011

WELL TD: 59.00 DTGW (bgs): 42.22 ft

DTW (TOC) 44.54 ~~WATER COL.~~ BTD

LOC: 2.32 ft ~~COL. VOL.~~ BTD

WELL SIZE: 4"

SAMPLE PARAMETERS (@ TIME OF COLLECTION)

TEMP: 19.27 °C DO: 4.75 mg/L TURB: 0.20 NTU

COND: 18.48 mS/cm PH: 7.57

TDS: 12.01 g/L ORP: 42.6 mV

SAMPLE DATE: 3-13-12

TIME: 1050

ID #: HLSF-0143-HMW-041-0312

DATE: 3-13-12 WELL ID: HMW-41 PERSONNEL: B. Davis R. Wu

TIME	mL VOL	°C TEMP	mS/cm COND	g/L TDS	mg/L DO	PH	mV ORP	NTU TURB
1028	INIT	18.35	18.33	11.91	7.67	7.53	45.9	0.33
1032	750	18.88	18.43	11.98	BTD ~~10~~ 5.77	7.56	48.7	0.23
1036	1500	19.11	18.47	12.01	5.19	7.57	45.1	0.37
1041	2250	19.21	18.48	12.01	4.87	7.53	43.3	0.10
1045	3000	19.27	18.48	12.01	4.75	7.57	42.6	0.20
	3750							
	4500							
	5250							

1050 - Sample

NOTES: SET-UP, PUMP SET @ 54, DRAWDOWN SET @ 45.54, CONTROLLER SET @ 55 CPM2
REFILL 15, DISCHARGE 15, PSI 40, START PURGE 1019, 1ST WATER 1022
FINISH 1100, TOTAL 0.41, INITIAL DRAWDOWN 44.85, FINAL 45.50

Date: 3-13-12 SWMU: 143

Well ID: HMW-40 personnel: B. Davis, R. Wu

Air Temp: 63° F

Weather Cond: Clear - 0-5 mph Breeze

Pump #: 000034 Water Qual Meter: 000012

Drum: Comp. Water Level Ind: 00008518 BTD

Turbidity meter: 000011

Well TD: 38.00 ft DTW (bgs): 22.40 ft.

DTW (TOC): 24.68 ft

LOC: 2.28 ft

Well Size: 4"

Sample Parameters

Temp: 20.47°C DO: 1.69 mg/L Turb: 0.23 NTU

Cond: 14.88 mS/cm pH: 7.59

TDS: 9.669 g/L ORP: 38.6 mV

Sample Date: 3-13-12

Time: 1140

ID: HLSF-0143-HMW-040-0312

Date: 3-13-12 well ID: HMW-40

Time	mL Vol	°C Temp	mS/cm Cond	g/L TDS	mg/L DO	pH	mV ORP	NTU Turb
1119	init	19.95	14.39	9.355	3.27	7.78	35.8	0.48
1123	750	20.18	14.87	9.667	2.12	7.66	38.8	0.15
1127	1500	20.34	14.94	9.711	1.85	7.61	39.7	0.17
1131	2250	20.40	14.92	9.698	1.75	7.58	38.3	0.09
1135	3000	20.47	14.88	9.669	1.69	7.59	38.6	0.23
1140 - Sample								

Setup: Pump set @ 33 Drawdown set @ 25.68 Controller Set @ MN

Refill 20 Discharge 10 PSI 40 Start Purge 1112 1st water 1115

Finish 1150 Total Time 0:38 Initial Drawdown 24.85 Final Drawdown 25.55

Date: 3-13-12 SWMU: 0143
Well ID: HMW-11 personnel: B. Davis, R. Wa.
Air Temp: 70°F
Weather: clear - 0-5 mph breeze
Pump #: 000034 Water Qual. Meter: 000012
Drum: Comp. Water Level Indr: 000018
Turbidity meter: 000011
Well TD: 64 ft DTW(Top): 44.57 ft.
DTW(Bgs): 45.92 ft.
LOC: 1.35 ft.
Well Size: 2"
Sample Parameters
Temp: 21.98°C Do: 3.12 mg/L Turb: 4.44 NTU
Cond: 17.09 mS/cm pH: 7.38
TDS: 11.11 g/L ORP: 27.1 mV
Sample Date: 3-13-12
Time: 1300
ID: HSF-0143-HMW-011-0412

Date: 3-13-12 Well ID: HMW-11

Time	Vol (mL)	Temp (°C)	Cond (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP (mV)	Turb (NTU)
1235	init	21.84	17.45	11.34	3.84	7.70	28.8	2.09
1240	750	21.79	17.53	11.40	3.46	7.53	28.6	1.64
1244	1500	21.76	17.29	11.24	3.26	7.46	28.7	2.38
1249	2250	22.01	17.10	11.12	3.02	7.44	28.1	2.82
1254	3000	21.98	17.09	11.11	3.12	7.38	27.1	4.44

1300- Sample

Setup: Pump Set @ 55 ft. Drawdown Set @ 46.92, Controller Set @ GPM2 55
Refill 15, Discharge 15, PSI 35, Start Purge 1228, 1st Water 1237
Finish 1310, Total Time 0:42, Initial Drawdown 46.23, Final Drawdown 46.72

Date: 3-13-12 SWMU: 0143
Well ID: HMW-43 personnel: B. Davis
R. Wu

Air Temp: 73°F
Weather: Clear - 0-5mph breeze.

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

Well TD: 65.50 ft DTW (bgs): 42.37 ft.
DTW (TOC): 44.80 ft.
LOC: 2.43 ft.
Well Size: 4"

Sample Parameter

Temp: 22.73°C Do: 3.45 mg/L Turb: 0.00 NTU
Cond: 6.351 mS/cm pH: 7.04
TDS: 4.128 g/L ORP: 41.9 mV

Sample Date: 3-13-12
Time: 1405
ID: HGSF-0143-HMW-043-0312
HGSF-0143-HMW-043-0312-MS/MSD

Date: 3-13-12 Well ID: HMW-43

Time	mL Vol	°C Temp	mS/cm Cond	g/L TDS	mg/L DO	pH	mV ORP	NTU Turb
1338	init	22.98	6.624	4.306	4.03	7.18	42.7	0.41
1343	750	22.74	6.412	4.168	3.64	7.09	42.1	0.07
1348	1500	22.80	6.370	4.140	3.51	7.04	42.2	0.04
1353	2250	22.68	6.363	4.136	3.50	7.07	41.6	0.01
1358	3000	22.73	6.351	4.128	3.45	7.04	41.9	0.00
1405	- Sample							

Setup: Pump set @ 58 ft, Drawdown set @ 45.80, Controller set @ CPM2-55
Refill 15, Discharge 15, PSI 35, Start Page 1330, 1st Water 1332
Finish 1420, Total Time 1:50, Initial Drawdown 45.38, Final Drawdown 45.70

Date: 3-14-12 SWMU: 143
Well ID: HMW-37 personnel: B. Davis, R. Wu

Air Temp: 58°F.
Weather: Clear - 0-5mph breeze

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

Well TD: 45.16 ft. DTW (bgs): 39.05 ft.
DTW (TOC): 41.55 ft.
LOC: 2.50 ft.
Well Size: 4"

Sample Parameters

Temp: 19.98 °C DO: 4.11 mg/L Turb: 0.00 NTU
Cond: 4.403 mS/cm pH: 7.48
TDS: 2.862 g/L ORP: -46.3 mV

Sample Date: 3-14-12
Time: 1050
ID: HCSF-0143-HMW-037-0312
Field Duplicate: HCSF-0143-HMW-137-0312

Date: 3-14-12 Well ID: HMW-37

Time	mL Vol	°C Temp	mS/cm Cond	g/L TDS	mg/L DO	pH	mV ORP	NTU Turb
1025	init	18.43	4.403	2.862	6.52	7.46	-39.7	0.16
1030	750	19.32	4.403	2.862	4.86	7.54	-39.1	0.13
1035	1500	19.60	4.410	2.866	4.44	7.44	-41.2	0.16
1040	2250	19.84	4.406	2.864	4.27	7.51	-45.0	0.00
1045	3000	19.98	4.403	2.862	4.11	7.48	-46.3	0.00

1050 - Sample

Setup: Pump Set @ 43 ft. Drawdown set @ 42.55 Cont. Set @ 55 gpm
Refill 15 Discharge 15 PSI 25 Start Purge 1016 1st water 1018
Finish 1110 Total time 2.54 Initial drawdown 41.56 Final drawdown 41.55

Date: 3-14-12 SWMU: 0143
Well ID: HMW-38 Personnel: B. Davis, R. Wu

Air Temp: 66° F
Weather: Clear - 0-5mph breeze

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

Well TD: 63.73 DTW (bgs): 44.20 ft.
DTW (TOC): 46.58 ft.
LOC: 2.38 ft.
Well size: 4"

Sample Parameters

Temp: 20.90°C DO: 2.80 mg/L Turb: 0.00 NTU
Cond: 11.51 mS/cm pH: 7.49
TDS: 7.48 g/L ORP: -57.7 mV

Sample Date: 3-14-12
Time: 1200
ID: HLSF-0143-HMW-038-0312

Date: 3-14-12 Well ID: HMW-38

Time	mL Vol	°C Temp	mS/cm Cond	g/L TDS	mg/L DO	pH	mV ORP	NTU Turb.
1132	init	20.70	11.44	7.438	3.96	7.59	-54.1	0.18
1137	750	20.69	11.53	7.497	3.08	7.59	-57.9	0.02
1142	1500	20.81	11.53	7.493	3.01	7.60	-59.9	0.02
1147	2250	20.82	11.53	7.496	2.87	7.42	-59.0	0.07
1152	3000	20.80	11.51	7.48	2.80	7.49	-57.7	0.00
1200	Sample							

Setup: Pump set @ 56 ft. Drawdown set @ 47.58 Cont State CPM 55
Refill 15 Discharge 15 psi 40 Start Purge 1124 1st W. str 1127
Finish 1205 Total Time 0:41 Initial Drawdown 46.67 Final Drawdown 46.75

Date: 3-14-12 SWMU: 0143
Well ID: HMW-39 Personnel: B. Davis, K. Wu

Air Temp: 73°F
Weather: Clear - 0.5 mph breeze

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

Well TD: 64.91 ft DTW (bgs): 43.44 ft.
DTW (toc): 46.09 ft.
LOC: 2.65 ft
Well Size: 4"

Sample Parameters

Temp: 21.57°C Do: 3.88 mg/L Turb: 0.00 NTU
Cond: 14.38 mS/cm pH: 7.59
TDS: 9.349 g/L ORP: -56.2

Sample Date: 3-14-12
Time: 1330
ID: AL5F-0143-HMW-039-0312

Date: 3-14-12 Well ID: HMW-39

Time	mL Vol	°C Temp	mS/cm Cond	g/L TDS	mg/L DO	pH	mV ORP	NTU Turb
1304	init	21.32	14.27	9.278	5.13	7.72	-58.2	0.82
1309	750	21.42	14.34	9.322	4.41	7.71	-57.8	0.08
1314	1500	21.45	14.38	9.344	4.18	7.75	-56.1	0.02
1319	2250	21.41	14.39	9.351	3.96	7.66	-56.6	0.00
1324	3000	21.57	14.38	9.349	3.88	7.59	-56.2	0.00

1330 - Sample

Setup: Pump set @ 57 ft, Drawdown Set @ 47.09, Cont. Set @ CPM2 55
Refill 15, Discharge 15, PSI 35, Start Purge 1255, 1st Water 1259
Finish 1338, Total time 0:43, Initial Drawdown 46.13, Final Drawdown 46.19