HELSTF TSA Groundwater

HMW-48
HMW-49 - MS/MSD
HMW-50 - QC
HMW-52 - ~~Ø~~ J.R.

Well Measurements

Well ID	DTW (TOC)	TD (TOC)
HMW-48	93.33	111.41 0900
HMW-49	93.48	112.80 0855
HMW-50	93.44	113.12 0850
HMW-52	89.86	99.35 0853

E-Line Tag # 000094 3-18-11

Date: 3-21-11 SWMU

Well ID: HMW-49 Personnel: G. Garcia, J. Padilla

Air Temp: 82 Rel. Hum: 16 %

Weather Cond: Partly Cloudy 0-5 mph.

Pump #: 00133 Water Quality Meter YSI #00079

Drum: 55 gal Water Level Ind. #: 000096

Gen Hrs. Ø Turbidity Meter: 000078

Well TD: 110.00 DTGW (bgs): 90.57

DTW (TOC): 93.48 Water Col.: 19.43

LOC: 2.91 Col. Vol.: 12.68

Well Size: 4"

Sample Parameters @ time of collection

Temp.: 22.40°C TDS: 6.674 g/l ORP: 66.5 mV

Cond: 10.27 DO: 1.37 mg/l Turb: 3.62 ntu

Cond Scale: mS/cm pH: 7.53

Sample Date: 3-21-11

" Time: 1310

" ID#: HTSA-0197-HMW-049-0311

HTSA-0197-HMW-049-0311-MS/MSD

HTSA-0197-RB-001-0311 (1300)

HTSA-0197-FB-001-0311 (1305)

Date: 3-21-11 Well ID: HMW-39 Personnel: G. Garcia, J. Padilla

Time	Vol.	Temp	Cond	TDS	DO	pH	ORP	Turb
	gal	°C	mS/cm	g/l	mg/l		mV	ntu
1240	1 unit	23.08	10.16	6.603	4.51	7.45	114.1	4.82
1245	750	22.94	10.28	6.680	3.84	7.49	104.5	4.75
1252	1500	22.99	10.29	6.688	2.00	7.41	88.1	5.05
1257	2250	22.64	10.30	6.696	1.74	7.53	76.1	4.17
1303	3000	22.36	10.27	6.678	1.50	7.55	70.0	4.42
1308	3750	22.40	10.27	6.674	1.37	7.53	66.5	3.62
	4500							
	5250							
1310	SAMPLE							

Notes: Setup, Pump Set @ 97.79, Drawdown Set @ 94.15, Water Set @ NA

Refill 15, discharge 15, PST 50, Startpump 123 1, 1st water 1235

Finish 1325, Total, Initial Drawdown 93.15, Total 93.55

Date: 3-18-11 SWMU:
Well ID: HMW-50 Personnel: J. Portilla
C. Purathingal

AIR Temp: 62°F Rel. Hum: 19
Weather Cond: clear 0-5 mph

Pump #000133 Water Quality Meter YSI #000071
Drum: 5 gal Water Level Ind. #: 000096
Gen Hrs: 8:40 Turbidity Meter #: 000078

Well TD: 110.00 DTGW (bgs): 91.37
DTW (TOC): 93.44 Water Col: 18.63
LOC: 2.07 Col. Vol.: 12.16
Well Size: 4"

Sample Parameters @ time of collection
Temp: 20.87°C TDS: 6.489 g/l ORP: 94.3 mv
Cond: 9.983 DO: 1.07 mg/l Turb: 1.91 ntu
Cond scale: ms/cm pH: 7.40

Sample Date: 3-18-11
" Time: 0948
" ID#: HTSA-0197-HMW-050-0311
HTSA-0197-HMW-150-0311

Date: 3-18-11 Well ID: HMW-50 Personnel: J. Portilla, C. Purathingal

Time	Vol (mL)	°C Temp	ms/cm Cond	g/l TDS	mg/l DO	pH	mv ORP	ntu Turb
0912	init.	19.18	8.603	5.592	8.00	7.41	121.0	2.51
0919	750	20.42	7.830	6.390	2.21	7.45	109.4	1.32
0925	1500	20.66	7.945	6.464	1.34	7.45	103.8	1.28
0931	2250	20.78	9.970	6.481	1.12	7.43	100.5	1.61
0939	3000	20.87	9.979	6.486	1.05	7.43	96.6	1.43
0946	3750	20.87	9.983	6.489	1.07	7.40	94.3	1.91
	4500							
0948	5250	Sample						

NOTES: set-up, Pump Set @ 98.19, Drawdown set @ 93.28, Controller Set @ MN
refill 15, discharge 15, PSI 50, Start purge 0918 1st water 0915
Finish 0952, Total 40, Initial Drawdown 92.28, Total 93.01

Date: 3-21-11 SWMU:
Well ID: HMW-52 Personnel: G.Gal

Air Temp: 82 Ref. Hum: 16%
Weather Cond: P. Cloudy

Pump: 00032 Water Quality Meter YSI #: 000079
Drum: 3992 (comp) Water Level Ind #: 000096
Gen Hrs: Ø Turbidity Meter #: 000078

Well TD 99.0 DTGW (bgs): 89.86
DTW (TOC): 89.86 Water Col.: 9.14
LOC: Flush Col. Vol.: 5.96
Well size: 4"

Sample Parameters @ time of collection
Temp: 22.70°C TDS: 25.74 g/l ORP 71.2 mv
Cond: 39.60 DO: 2.31 mg/l Turb. 3.36 ntu
Cond Scale: mS/cm pH: 7.83

Sample Date: 3-21-11
" Time: 1405
" ID#: HTSA-0197-HMW-052-0311
(1410) HTSA-0197-IDW-001-0311

Date: 3-21-11 Well ID: HMW-52 Personnel: G. Gallo, J. Pastica

Time	Vol ml	Temp °C	Cond mS/cm	TDS g/l	DO mg/l	pH	ORP mv	Turb ntu
1338	init.	22.32	39.57	25.72	6.45	6.44	175.0	14.4
1343	750	22.68	39.71	25.81	2.64	8.44	94.9	11.8
1348	1500	22.43	39.70	25.81	2.55	8.31	90.2	10.6
1353	2250	22.30	39.71	25.81	2.48	8.17	78.5	7.68
1358	3000	22.47	39.64	25.76	2.34	7.99	73.9	4.69
1403	3750	22.70	39.60	25.71	2.31	7.83	71.2	3.36
	4500							
	5250							
1405	Sample							

Notes: setup: Pump Set @ 91.68, Drawdown Set @ ~~89.53~~ 90.53, Controller Set @ ml
refill 15 discharge 15, PSI 50, Start Purge 1328, 1st water 1332
Finish 1430, Total 1.02, Initial drawdown 89.53, Total 90.12

HELSTF TSA Groundwater

HMW-48
HMW-49 - MS/MSD
HMW-50 - QC
HMW-52 - ~~Ø~~ J.R.

Well Measurements

Well ID	DTW (TOC)	TD (TOC)
HMW-48	93.33	111.41 0900
HMW-49	93.48	112.80 0855
HMW-50	93.44	113.12 0850
HMW-52	89.86	99.35 0853

E-Line Tag # 000094 3-18-11

Date: 3-18-11
Well ID: HMW
AIR Temp: 6
Weather Cond:
Pump #00133
Drum: 5 gal
Gen Hrs: 8.4

Well TD: 110.0
DTW (TOC): 93.4
LOC: 2.0
Well Size: 4"

Sample Para
Temp: 20.87 °C
Cond: 9.983
Cond Scale: ms

Sample Dat
" Time
" ID#

Date: 3-18-11
Well ID: HMW-048 JR
Air Temp: 73
Weather Cond: Clear 0-5 mph
Pump #00032
Drum 5 gal
Gen Hrs:
Well TD: 110.00
DTW (TOC): 93.33
LOC: ~~2.01~~ JR 2.73
Well Size: 4"

Sample Parameters @ time of co
Temp: 23.16 °C TDS: 6.178 g/l ORP:
Cond: 9.505 DO: 0.26 mg/l Turb:
Cond Scale: ms/cm PH: 7.44

Sample Date: 3-18-11
" Time: 1105
" ID#: HTSA-097-HMW-048-

SWMU:
Personnel: J. M
L. Pur
Rel. Hum: 1
Water Quality Meter #: 0
Water Level Ind #: 00
Turbidity Meter #: 00
DTGW (bgs): 9
Water Col.:
Col. Vol.: 1

									Turb
									57.9
									63.4
									62.2
									56.6
									49.5
									45.4
									47.3
									ORP
									71.9
									89.3
									88.2
									87.1
									86.3
									85.4
									84.4
									pH
									7.51
									7.47
									7.46
									7.45
									7.44
									7.44
									7.44
									1.50
									0.50
									0.39
									0.34
									0.31
									0.28
									0.26
									6.203
									6.189
									6.187
									6.185
									6.184
									6.180
									6.178
									9.543
									9.522
									9.519
									9.516
									9.514
									9.507
									9.505
									22.17
									22.15
									22.38
									22.61
									22.76
									22.94
									23.16
									init.
									750
									1500
									2250
									3000
									3750
									4500
									5250
									1027
									1033
									1039
									1045
									1051
									1057
									1103
									1105

Notes: set up, Pump Set @ 97.80 Drawdown Set @ 93.28, Controller Set @ MW
Refill 15, discharge 15, DST 50, Start purge 1024
1st water 1026, finish 1112, Total 10:48, Initial Drawdown 92.28
Total 92.98