ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CB7-03GW03 Page 1 of 1 Field Staff: AG

Date Sampled 7/25/01
Stick-up Height 1.0 feet
Depth to Water 10.95 feet below top of casing
Total Depth 53.5 feet below top of casing
Depth of Tubing (sample interval) 51.5 feet below top of casing

sulfide 0.18 mg/L
ferrous iron = 1.14 mg/L

Start purge 1450
Start parameters 1540
End purge 1710
Total purge time: 2 hours, 20 minutes
Parameters Stabilized? Yes

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C) 3%	Spec. Cond. (uS) 3%	pH +/-.1	ORP (mV) +/-10	DO (mg/L) 10%	Turbidity (NTU) 10%
1545	0	400	~~400~~ 19	15.33	9802	7.25	-178.9	0.57	58.6
1550	5			14.30	9822	7.26	-188.3	0.46	36.4
1555	10			14.13	9669	7.29	-200.0	0.78	35.7
1600	15			14.03	9600	7.31	-209.3	0.89	29.1
1605	20			14.06	9500	7.34	-211.7	1.12	32.7
1610	25			14.02	9470	7.35	-215.0	2.12	27.6
1615	30			14.08	9637	7.35	-218.7	3.20	30.1
1620	35			14.00	9674	7.36	-219.4	5.61	29.9
1625	40			14.06	9641	7.36	-221.4	2.58	30.9
1630	45			14.05	9731	7.36	-219.9	2.34	31.4
1635	50			14.05	9664	7.36	-222.0	2.96	30.0
1640	55			14.02	9602	7.36	-219.9	1.42	28.9
1645	60			14.06	9723	7.35	-224.6	1.94	26.7
1650	65			14.08	9760	7.35	-220.5	3.05	31.4
1655	70			14.09	9880	7.35	-218.8	1.21	32.1
~~1645~~ 1700	75			14.09	9826	7.34	-212.8	1.42	~~28.5~~ 30.2
1705	80			14.11	9789	7.34	-193.3	1.55	29.1
1710	85		15	14.03	9769	7.33	-185.7	1.53	29.4
1720	90								

Comments

EPA collected 2L in 10 minutes

ROU[illegible]SOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CB8-01GW01 Page 1 of 1 Field Staff: JC

Date Sampled 7/18/01
Stick-up Height 1.6 feet
Depth to Water 14.01 feet below top of casing
Total Depth 21.7 feet below top of casing
Depth of Tubing (sample interval) 19.7 feet below top of casing

Sulfide: 0.80 mg/L
ferrous iron: 3.38 mg/L

Start purge 1040
Start parameters 1055
End purge 1125
Total purge time: — hours, 45 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1055		300		13.82	912	5.73	-60.8	1.02	32.3
1100	5	300		13.65	903	5.75	-65.8	0.65	6.75
1105	10	300		13.62	901	5.75	-65.9	0.61	5.44
1110	15	300		13.63	897	5.76	-64.9	0.53	4.97
1115	20	300		13.54	895	5.75	-63.9	0.47	4.00
1120	25	300		13.49	893	5.76	-61.8	0.46	4.55
1125	30	300	5	13.49	892	5.76	-61.3	0.45	4.22

Comments

EPA collected 2L in 15 min., collected sample and duplicate

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CB8-01GW03 Page 1 of 1 Field Staff: LC

Date Sampled 7/17/01
Stick-up Height 1.9 feet
Depth to Water 14.31 feet below top of casing
Total Depth 76.5 feet below top of casing
Depth of Tubing (sample interval) 74.5 feet below top of casing

Sulfide: 0.01 mg/L
ferrous iron: 3.30 mg/L

Start purge 0945, 1430
Start parameters 1500
End purge 1045, 1545
Total purge time: 2 hours, 15 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1500		300	5	13.97	3269	6.04	-139.9	0.53	0.93
1505	5	300		13.90	3273	6.05	-139.4	0.46	1.63
1510	10	300		13.89	3277	6.05	-137.5	0.42	2.95
1515	15	300		13.90	3274	6.06	-135.5	0.44	4.64
1520	20	300	10	13.81	3281	6.06	-134.5	0.40	6.20
1525	25	300		13.77	3281	6.06	-132.9	0.38	5.81
1530	30	300		13.77	3280	6.06	-131.6	0.37	6.16
1535	35	300		13.79	3279	6.07	-131.1	0.37	4.55
1540	40	300		13.80	3277	6.07	-130.0	0.37	4.46
1545	45	300	12	13.79	3279	6.06	-129.7	0.37	3.02

Comments
EPA collected 2L in 15 min.

CT38-04GW02 NS
~~CT804GW02~~ AG

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample ~~CW-GW78 4~~ AG Page 1 of 2 Field Staff: AG

Date Sampled 7/24/01
Stick-up Height 2 feet
Depth to Water 15.36 feet below top of casing
Total Depth 42' feet below top of casing
Depth of Tubing (sample interval) 41 feet below top of casing

Start purge 1025
Start parameters 1115
End purge 1425
Total purge time: 4 hours, ____ minutes
Parameters Stabilized? No

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1115	0		2	18.62	14.325	7.64	-35.9	0.93	222
1120	5			18.07	14330	7.67	-52.0	1.00	210
1126	10			19.33	14373	7.33	15.7	1.09	217
1130	15								
1135	20								
1140	25								
1145	~~30~~ 0	400	3	14.19	14543	7.16	-110.8	0.38	339
1150	5			13.97	14544	7.63	-162.6	0.08	406
1155	10			13.90	14542	7.72	-178.3	0.06	412
~~1200~~ AG	~~15~~ AG								
~~1205~~ AG	~~20~~ AG								
~~1210~~ AG	~~25~~ AG								
~~1215~~ AG	~~30~~ AG								
1315	0			15.10	14599	6.78	-9.9	0.39	229
1320	5			15.16	14728	7.61	-107.0	0.29	247
1328	10			15.09	14737	7.70	-117.5	0.25	172
1330	15			15.18	14729	7.63	-122.6	0.22	137
1335	20			15.37	14742	6 AG 7.10	-126.8	0.56	141
1340	25			15.47	14752	7.65	-101.9	0.27	113

Comments

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CBS-046GW02N Page 2 of 2 Field Staff: AB

Date Sampled 7/24/01
Stick-up Height 2 feet
Depth to Water 15.36 feet below top of casing
Total Depth 42 feet below top of casing
Depth of Tubing (sample interval) 41 feet below top of casing

Sulfides: 0.17 mg/L
ferrous iron: 1.03 mg/L

Start purge 1025
Start parameters 1115
End purge 1425
Total purge time: 4 hours, ____ minutes
Parameters Stabilized? No

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1345	30		10	15.55	14751	7.69	+111.1	0.28	88.7
1350	35			15.62	14760	7.69	-110.5	0.35	49.5
1355	40			15.71	14775	7.72	-113.0	0.31	64.3
1400	45			15.74	14796	7.70	-112.9	0.31	54.4
1405	50								
1410	55		15	14.66	14732	7.32	-119.2	0.26	178

Comments
EPA collect 2L in 10 minutes; collected sample and duplicate CBS-04GW02NS99
Sample is effervesing.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CB9-01GW01 Page 1 of 1 Field Staff: LC

Date Sampled 7/10/01
Stick-up Height 1.30 feet
Depth to Water 7.51 feet below top of casing
Total Depth 14.0 feet below top of casing
Depth of Tubing (sample interval) 12.0 feet below top of casing

Sulfide: 0.80mg/L
ferrous iron: 1.08mg/L

Start purge 0915
Start parameters 0940
End purge 1010
Total purge time: — hours 55 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
0940		300		16.55	1592	6.94	-219.2	7.63	129
0945	5	300		16.33	1586	6.93	-227.5	7.50	5.23
0950	10	300		16.22	1591	6.94	-238.7	7.90	5.35
0955	15	300		16.21	1590	6.94	-249.3	8.57	4.48
1000	20	300		16.17	1592	6.94	-248.3	8.75	3.80
1005	25	300		16.15	1592	6.93	-249.9	8.70	3.64
1010	30	300		16.16	1595	6.93	-251.6	8.93	3.02

Comments
EPA collected 2L of sample

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample RB9-01GW03 Page 1 of 2 Field Staff: LC

Date Sampled 7/10/01
Stick-up Height 0.60 feet
Depth to Water 6.45 feet below top of casing
Total Depth 35.0 feet below top of casing
Depth of Tubing (sample interval) 33.5 feet below top of casing

sulfide: 0.22 mg/L
ferrous iron: 0.58 mg/L

Start purge 1145
Start parameters 1245
End purge 1435
Total purge time: 2 hours, 50 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1245		200		14.40	5756	7.26	-191.6	9.69	76.3
1250	5	200		14.47	5733	7.27	-191.7	5.86	47.3
1255	10	200		14.40	5680	7.27	-188.9	6.76	35.5
1300	15	200		14.58	6623	7.27	-184.3	~~7.27~~ 12.40	27.8
1305	20	200		14.57	5595	7.28	-186.1	13.17	33.3
1310	25	200		14.47	5566	7.28	-187.8	5.53	21.6
1315	30	200		14.45	5557	7.28	-188.0	5.43	22.0
1320	35	200		14.56	6497	7.28	-187.5	5.63	19.9
1325	40	200		14.50	5440	7.28	-187.0	8.22	15.6
1330	45	200		14.49	5437	7.28	-185.6	9.73	12.2
1335	50	200		14.61	5421	7.29	-184.7	3.51	10.92
1340	55	200		14.64	5405	7.29	-184.0	3.35	7.11
1350	60	200		14.56	5293	7.29	-181.0	5.15	10.71
1355	65	200		14.66	5265	7.29	-181.9	3.95	9.78
1400	70	200		14.72	5221	7.29	-183.0	4.88	9.18
1405	75	200		14.76	5289	7.29	-184.2	10.60	7.72
1410	80	200		14.78	5316	7.29	-181.7	10.97	8.05
1415	85	200		14.82	5268	7.29	-180.9	8.58	9.08
1420	90	200		14.85	5289	7.29	-180.7	18.34	9.33

Comments
EPA collected 2L (20 min.)
VOC's may have air bubbles, sample is effervescent in contact w/ preservative

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CB9-01GW03 Page 2 of 2 Field Staff: LC

Date Sampled 7/10/01
Stick-up Height 0.60 feet
Depth to Water 6.45 feet below top of casing
Total Depth 35.0 feet below top of casing
Depth of Tubing (sample interval) 33.5 feet below top of casing

Start purge 1145
Start parameters 1245
End purge
Total purge time: _____ hours, _____ minutes
Parameters Stabilized? _____

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1430	100	200		14.80	6226	7.29	-181.0	18.62 ~~20.99~~	9.36
1435	105	200		14.87	5250	7.29	-181.2	18.26	8.42

Comments

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample: B9-02GW02 Page 1 of 1 Field Staff: ~~AG~~/~~HAT~~

Date Sampled 7/10/01
Stick-up Height 2.1 feet
Depth to Water 6.0 feet below top of casing
Total Depth 29.5 feet below top of casing
Depth of Tubing (sample interval) 28.5 feet below top of casing

sulfide: 0.27mg/L
ferrous ion: 3.30mg/L

Start purge 1340
Start parameters 1355
End purge 1505
Total purge time: 1 hours, 25 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C) 3%	Spec. Cond. (uS) 3%	pH +/-1	ORP (mV) +/-10	DO (mg/L) 10%	Turbidity (NTU) 10%
1355 @ HAT	0	300		16.77	6866	6.00	-138.5	~~17.8~~ 0.10	17.8
1400	5			15.96	6881	5.99	-135.9	-0.08	17.0
1405	10			15.59	6835	5.99	-131.7	-0.08	21.8
1410	15			15.66	6812	5.99	-130.3	-0.06	12.5
1415	20			15.46	6814	5.99	-128.0	-0.07	27.0
1420	25			15.74	6783	6.00	-126.4	-0.05	9.06
1425	30			15.86	6807	6.00	-125.6	-0.06	14.2
1430	35			15.84	6793	6.00	-124.5	-0.07	9.77
1435	40			15.63	6777	6.00	-122.8	-0.04	10.36
1440	45			15.67	6767	6.01	-122.0	-0.06	11.2
1445	50			15.88	6773	6.02	-121.5	-0.05	29.2
1450	55			16.02	6736	6.02	-120.5	-0.04	34.4
1455	60			16.10	6711	6.02	-120.0	-0.04	15.00
1500	65			15.94	6776	6.02	-118.7	-0.04	9.32
1505	70	↓		16.12	6769	6.02	-118.3	-0.04	~~10.~~ 8.86 HAT
				16.23	6757	6.04	-118.3	-0.04	9.33

Comments

EPA collected 2L for 15 ~~more~~ HAT min.
Sheen on water and oily odor.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CB9-046GW01 Page 1 of 1 Field Staff: LC

Date Sampled 7/23/01
Stick-up Height 1.1 feet
Depth to Water 4.1 feet below top of casing
Total Depth 9.0 feet below top of casing
Depth of Tubing (sample interval) 7.5 feet below top of casing

Sulfide: 0.02mg/L
ferrous iron: 3.30mg/L

Start purge 1205
Start parameters 1240
End purge 1310
Total purge time: 1 hours, 5 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1240		400	5	19.72	407	5.90	-51.1	1.68	9.6
1245	5	400		19.68	408	5.91	-52.5	1.83	3.9
1250	10	400		19.66	408	5.92	-53.1	2.00	2.2
1255	15	400		19.60	407	5.92	-53.3	1.93	1.7
1300	20	400		19.68	407	5.93	-53.1	2.07	1.1
1305	25	400		19.62	407	5.93	-52.7	2.17	0.70
1310	30	400	10	19.55	408	5.93	-51.8	2.22	1.00

Comments
EPA collected 4L in 25 min.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CB9-05GW01 Page 1 of 1 Field Staff: LC

Date Sampled 7/23/01
Stick-up Height 1.1 feet
Depth to Water 4.51 feet below top of casing
Total Depth 11.0 feet below top of casing
Depth of Tubing (sample interval) 9.0 feet below top of casing

Sulfide: 0.04mg/L
ferrous iron: 3.30mg/L

Start purge 1500
Start parameters 1515
End purge 1545
Total purge time: — hours, 45 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1515		400	3	19.96	480	5.81	-34.5	1.92	28
1520	5	400		19.73	476	5.77	-38.8	1.92	13
1525	10	400		19.54	476	5.74	-43.9	2.13	5.5
1530	15	400		19.46	476	5.73	-46.0	2.20	2.9
1535	20	400		19.44	476	6.73	-47.6	2.37	1.8
1540	25	400		19.37	477	5.74	-49.1	2.50	1.8
1545	30	400	5	19.40	477	5.73	-49.4	2.57	1.4

Comments

EPA collected 2L in 15min.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample ~~CE3GW~~ CE3-02GW03 Page 1 of 1 Field Staff: LC

Date Sampled 7/25/01
Stick-up Height 1.2 feet
Depth to Water 4.92 feet below top of casing
Total Depth 54.0 feet below top of casing
Depth of Tubing (sample interval) 52.0 feet below top of casing

Sulfide: 0.14 mg/L
ferrous iron: 3.30 mg/L

Start purge 1220
Start parameters 1350
End purge 1410
Total purge time: 1 hours, 50 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1340		400		13.18	789	5.70	1.2	0.21	7.1
1345	5	400	10	12.67	784	5.71	1.7	0.08	3.3
1350	10	400		12.59	787	5.74	1.0	0.05	3.2
1355	15	400		12.64	790	5.80	-5.9	0.05	4.4
1400	20	400		12.64	794	5.79	-4.4	0.03	1.7
1405	25	400		12.61	793	5.82	-5.3	0.03	2.0
1410	30	400	13	12.69	793	5.81	-4.4	0.03	0.55

Comments
EPA collected 2L in 15 min.
collect sample and MS/MSD

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CE4-02GW01 Page 1 of 1 Field Staff: LC

Date Sampled 7/19/01
Stick-up Height 2.0 feet
Depth to Water 9.71 feet below top of casing
Total Depth 14.75 feet below top of casing
Depth of Tubing (sample interval) 12.75 feet below top of casing

Sulfide: 0.80mg/L.
Ferrous iron: 3.30mg/L

Start purge 1020
Start parameters 1100
End purge 1130
Total purge time: 1 hours, 10 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1100		150		16.49	2376	6.18	-198.7	2.95	38.0
1105	5	150		16.34	2370	6.18	-189.8	2.83	14.4
1110	10	150		16.35	2368	6.18	-189.1	2.79	13.6
1115	15	150		16.36	2361	6.19	-183.6	2.56	9.95
1120	20	150		16.31	2366	6.20	-183.3	2.49	10.02
1125	25	150		16.32	2360	6.20	-183.3	2.49	10.52
1130	30	150	3	16.31	2354	6.20	-182.5	2.44	10.5

Comments
EPA collected 2L in 30 min.
Total sampling time was 2hrs.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample LF4-03GW01NS Page 1 of 1 Field Staff: AG

Date Sampled 7/19/01, 7/23/01, 7/24/01, 7/25/01
Stick-up Height 0.7 feet
Depth to Water 6.67, 5.05 feet below top of casing
Total Depth 10.0 feet below top of casing
Depth of Tubing (sample interval) 8.0 feet below top of casing

Sulfide: 0.80mg/L
ferrous iron: 3.30mg/L

Start purge AG 1410
Start parameters
End purge 1740
Total purge time: 3 hours, 30 minutes +30 total 4 hours.
Parameters Stabilized? No

7/24/01 - collected no fals + brcard of 30 still need filtered (2.0 hrs)

7/25/01 - collect 1 filtered svoc, 1 DOC (1.5 hrs.)

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)

Comments

Worked on well for 3½ hours. Purged well dry. very slow recharge
1410 started purging at 1740 checked water level it was down to 9ft
only purged about 2 gallons with the addition of 1 gallon of DI water
began sampling @ 1125 ~~finished~~ stopped at 1725 could not fill all bottles today.
SDA collected 2L in 2 hours

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CEM-03GW03 Page 1 of 1 Field Staff: AG

Sulfide 0.04
iron ~ 1.30

Date Sampled 7/19/01
Stick-up Height 1.9 feet
Depth to Water 11.71 feet below top of casing
Total Depth 27.5 feet below top of casing
Depth of Tubing (sample interval) 25.5 feet below top of casing

Start purge 1015
Start parameters 1055
End purge 1135
Total purge time: ____ hours, ____ minutes
Parameters Stabilized? Yes

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C) 3%	Spec. Cond. (uS) 3%	pH +/- .1	ORP (mV) +/- 10	DO (mg/L) 10%	Turbidity (NTU) 10%
1055	0	300	7	12.86	950	5.59	-110.7	0.03	65
1100	5			12.61	952	5.61	-121.6	0.02	23
1105	10			12.71	952	5.63	-125.8	0.01	18
~~1200~~1110	15			12.74	953	5.64	-127.6	0.01	10
1115	20			12.77	953	5.65	-127.7	0.01	8.9
1120	25			12.59	951	5.65	-129.6	0.00	9.6
1125	30			12.71	952	5.64	-131.1	0.00	8.7
1130	35			12.63	952	5.67	-132.5	0.00	9.0
1135	40		12	12.54	951	5.65	-133.5	0.00	9.0

Comments

EPA collected 2 L in 10 minutes
collected sample and duplicate

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CH1-04GW04X Page 1 of ___ Field Staff: LC

Date Sampled 7/18/01
Stick-up Height 1.9 feet
Depth to Water 5.10 feet below top of casing
Total Depth 40.0 feet below top of casing
Depth of Tubing (sample interval) 38.0 feet below top of casing

Sulfide: 0.80 mg/L
ferrous iron: 3.30 mg/L

Start purge 1515
Start parameters 1640
End purge 1715
Total purge time: 2 hours, ___ minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1640		300		15.41	452	7.09	-194.8	0.05	338
1645	5	300	7	15.31	451	6.90	-203.9	0.03	423
1650	10	300		15.24	450	6.84	-211.7	0.02	434
1655	15	300		15.34	450	6.85	-220.5	0.02	448
1700	20	300		15.28	450	6.85	-222.6	0.02	464
1705	25	300		15.33	450	6.85	-224.7	0.02	484
1710	30	300		15.35	450	6.86	-226.3	0.02	503
1715	35	300	10	15.40	450	6.87	-228.3	0.02	508

Comments
EPA collected 2L in 15 min.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CH1-040W05R Page 1 of 1 Field Staff: LC

Date Sampled 7/18/01
Stick-up Height 2.1 feet
Depth to Water 6.49 feet below top of casing
Total Depth 49.50 feet below top of casing
Depth of Tubing (sample interval) 47.50 feet below top of casing

Sulfide: 0.07mg/L
ferrous iron: 1.47mg/L

Start purge 1100
Start parameters 1205
End purge 1420
Total purge time: 3 hours, 20 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1205		400	12	15.16	1200	6.30	-119.6	0.07	235
1210	5	400		15.12	1199	6.39	-165.4	0.03	927
1215	10	400		15.20	1190	6.48	-182.1	0.02	1004
1220	15	400		15.31	1190	6.54	-192.1	0.02	—
1225	20	400		15.33	1190	6.54	-192.6	0.02	—
1230	25	400	15	15.31	1190	6.61	-201.5	0.01	—
1235	30	400		15.25	1190	6.63	-203.6	0.01	—
1300	55	400		15.52	1199	6.60	-160.2	0.02	650
1305	60	400		15.33	1199	6.60	-171.0	0.01	553
1310	65	400		15.25	1200	6.61	-176.3	0.01	537
1315	70	400		15.17	1201	6.62	-179.9	0.01	480
1320	75	400	20	15.27	1198	6.65	-188.4	0.01	383
1325	80	400		15.31	1201	6.66	-192.1	0.01	278
1330	85	400		15.08	1198	6.67	-194.3	0.01	210
1340	95	400		15.34	1198	6.68	-196.5	0.01	124
1350	105	400		15.38	1199	6.69	-195.8	0.01	101.7
1405	120	400		15.05	1198	6.72	-194.8	0.01	38.8
1410	125	400		14.94	1201	6.71	-190.4	0.00	19.2
1415	130	400	25	15.13	1197	6.73	-185.7	0.0	17.6
1420	135	400		15.14	1199	6.73	-183.4	0.0	18.8

Comments ~~1425 140 400~~
EPA collected 2L in 15 min.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CH2-02GW02 Page 1 of 1 Field Staff: LC

Date Sampled 7/12/01
Stick-up Height 1.0 feet
Depth to Water 4.98' feet below top of casing
Total Depth 18.5 feet below top of casing
Depth of Tubing (sample interval) 16.5 feet below top of casing

Sulfide: 0.52 mg/L
ferrous iron: 3.30 mg/L

Start purge 1400
Start parameters 1430
End purge 1555
Total purge time: 1 hours, 55 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1430		300		13.72	427	6.19	-139.4	3.41	59.6
1435	5	300		12.57	424	5.92	-279.2	1.30	123
1440	10	300	5	12.23	416	5.93	-345.6	0.84	103.3
1445	15	300		12.37	417	5.92	-366.9	1.02	163
1450	20	300		12.24	417	5.96	-393.9	0.62	240
1455	25	300		12.30	417	5.93	-409.2	0.57	234
1500	30	300		12.31	415	5.96	-415.4	0.91	223
1505	35	300		12.24	415	5.95	-415.6	0.88	327
1510	40	300		12.33	413	5.96	-415.1	0.80	436
1520	50	200		12.62	419	5.95	-394.7	0.61	149
1525	55	200		12.68	418	5.95	-390.8	0.62	93.6
1535	65	200		12.75	418	5.95	-391.6	0.61	66.7
1540	70	200		12.87	416	6.95	-390.5	0.59	55.0
1545	75	200	10	12.84	417	5.95	-390.3	0.59	58.2
1550	80	200		12.72	416	5.95	-391.5	0.56	56.0
1555	85	200		12.77	415	5.96	-393.0	0.59	54.7

Comments

EPA collected 2L. in 15 min.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CH2-02GW05 Page 1 of ___ Field Staff: AG

Date Sampled 7/12/01
Stick-up Height 1.2 feet
Depth to Water 6.01 feet below top of casing
Total Depth 43.0 feet below top of casing
Depth of Tubing (sample interval) 41.0 feet below top of casing

Sulfide 0.01 mg/L
ferrous iron: 2.04 mg/L

Start purge 1400
Start parameters 1420
End purge 1525
Total purge time: 1 hours, 25 minutes
Parameters Stabilized? yes

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1420	0	400		12.64	1645	6.03	-96.7	0.68	10
1425	5			12.55	1646	6.03	-95.1	0.71	9.8
1430	10			12.53	1621	6.02	-90.3	0.45	7.8
1435	15			12.55	1620	6.02	-89.9	0.46	9.1
1440	20			12.26	1612	6.03	-87.6	0.42	6.3
1445	25			12.38	1602	6.03	-85.5	0.44	7.1
1450	30			12.22	1590	6.03	-85.5	0.43	5.7
1455	35			12.37	1582	6.04	-85.2	0.42	4.6
1500	40			12.40	1578	6.04	-84.3	0.39	5.2
1505	45			12.44	1572	6.04	-83.9	0.44	4.6
1510	50			12.34	1570	6.04	-83.3	0.43	6.1
1515	55			12.37	1563	6.04	-82.8	0.42	4.3
1520	60			12.23	1555	6.04	-81.8	0.42	4.7
1525	65		10	12.18	1546	6.04	-81.5	0.46	4.5
1530	70								

Comments EPA sampled 2L in 10 minutes.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample SH2-04GW05 Page 1 of ___ Field Staff: LC

Date Sampled 7/12/01
Stick-up Height 1.8 feet
Depth to Water 6.83 feet below top of casing
Total Depth 60.5 feet below top of casing
Depth of Tubing (sample interval) 58.5 feet below top of casing

Sulfide: 0.0mg/L
ferrous iron: 3.30mg/L

Start purge 0935
Start parameters 1025
End purge 1135
Total purge time: 2 hours, - minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1025		300	4	15.52	690	7.08	-168.6	3.13	92.7
1030	5	300		14.97	680	6.21	-190.8	1.20	148
1035	10	300	5	14.53	682	6.15	-196.0	0.99	120
1040	15	300		14.61	682	6.13	-214.8	0.72	53.8
1045	20	300		15.05	679	6.14	-304.4	0.77	32.4
1050	25	300		14.54	678	6.13	-371.4	0.77	22.1
1055	30	300		14.84	679	6.13	-387.8	0.75	18.5
1105	40	300		14.79	682	6.13	-365.1	0.75	16.9
1115	50	300		14.56	679	6.13	-373.8	0.75	16.0
1120	55	300		14.67	681	6.14	-350.4	0.74	11.9
1125	60	300		14.52	678	6.14	-332.1	0.69	11.6
1130	65	300		14.77	678	6.13	-330.6	0.72	11.2
1135	70	300	10	14.73	679	6.14	-335.9	0.73	11.3

Comments

EPA collected 2L in 15 min.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CH2046GW06 Page 1 of ___ Field Staff: AG

Date Sampled 7/12/01
Stick-up Height 0.8 feet
Depth to Water 5.44 feet below top of casing
Total Depth 70.2 feet below top of casing
Depth of Tubing (sample interval) 68.2 feet below top of casing

Sulfides 0.01 mg/L
ferrous iron 3.38 mg/L

Start purge 0930
Start parameters 0955
End purge 1035
Total purge time: 1 hours, 40 5 minutes
Parameters Stabilized? Yes

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C) 3%	Spec. Cond. (uS) 3%	pH +/- .1	ORP (mV) +/- 10	DO (mg/L) 10%	Turbidity (NTU) 10%
0955	0	320		14.82	1209	6.66	-234.2	2.14	16
1000	5			14.72	1205	6.68	-223.7	1.69	16
1005	10			14.75	1206	6.68	-220.1	1.65	17
1010	15			14.63	1203	6.68	-217.0	1.51	17
1015	20			14.69	1205	6.68	-217.7	1.42	15
1020	25			14.660	1209	6.68	-212.2	1.32	15
1025	30			14.60	1207	6.69	-209.3	1.24	13
1030	35			14.50	1205	6.69	-203.8	1.23	13
1035	40		7	14.43	1224	6.69	-203.4	1.21	13

Comments
EPA collected 4 L in 25 minutes
Collected samples for MS + MSD

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CL2-03GW01 Page 1 of 1 Field Staff: LC

Date Sampled 7/11/01
Stick-up Height 1.7 feet
Depth to Water 13.71 feet below top of casing
Total Depth 18.5 feet below top of casing
Depth of Tubing (sample interval) 16.5 feet below top of casing

sulfide: 0.02mg/L
ferrous iron: 1.52mg/L

Start purge 1400
Start parameters 1500
End purge 1550 1555
Total purge time: 1 hours, 50 55 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1500		200	8	18.15	1222	5.62	-12.8	5.62	58.7
1505	5	200		17.96	1228	5.60	-6.1	5.74	15.8
1510	10	200		17.71	1229	5.58	-2.1	5.87	8.83
1515	15	200		17.61	1223	5.58	-2.5	5.84	74.3
1520	20	200		17.78	1218	5.59	2.5	5.74	21.0
1525	25	200		17.76	1219	5.60	3.8	5.80	17.6
1530	30	200		17.97	1217	5.61	4.3	5.86	17.8
1535	35	200		17.73	1221	6.61	6.0	5.97	10.44
1540	40	200		17.68	1221	6.62	7.1	6.04	8.64
1545	45	200		17.65	1220	5.62	7.5	6.08	8.56
1550	50	200		17.64	1219	5.62	7.9	6.16	8.38
1556	55	200	10	17.71	1223	5.63	9.1	5.98	8.13

Comments
air bubbles in flow-thru cell, EPA collected 2L (15min.)

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CL2-03GW02 Page 1 of 1 Field Staff: LC

Date Sampled 7/11/01
Stick-up Height 0.7 feet
Depth to Water 12.75 feet below top of casing
Total Depth 39.9 feet below top of casing
Depth of Tubing (sample interval) 26.4 feet below top of casing

Sulfide: 0.04mg/L
ferrous iron: 1.54mg/L

Start purge 0930
Start parameters 1045
End purge 1155
Total purge time: 2 hours, 25 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1045		300	5	15.04	1048	5.51	-68.4	4.15	253
1050	5	300		14.84	1047	5.41	-81.1	4.55	269
1055	10	300		14.77	1046	5.46	-81.6	3.09	74.9
1100	15	300		14.75	1048	5.40	-81.5	3.14	73.8
1105	20	300		14.73	1047	5.40	-80.1	2.77	52.3
1110	25	300		14.72	1045	5.40	-81.2	3.03	71.0
1115	30	300		14.73	1046	5.40	-79.7	2.51	285
1120	35	300		14.77	1043	5.40	-70.8	2.39	29.2
1125	40	300		14.78	1043	5.40	-69.8	2.36	21.6
1130	45	300	10	14.78	1042	5.41	-71.6	2.21	15.8
1135	50	300		14.79	1041	5.41	-74.4	2.38	14.5
1140	55	300		14.85	1042	5.41	-76.8	2.40	14.7
1145	60	300		14.91	1041	5.41	-78.7	2.14	19.8
1150	65	300		14.92	1042	5.41	-76.6	2.25	20.3
1155	70	300	13	14.94	1041	5.41	-74.6	2.24	21.0

Comments
- Collect sample and duplicate CL2-03GW0299
- EPA collected 2L (15 min.)

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample EL2-05GW01 Page 1 of 1 Field Staff: AG

Date Sampled 7/11/01
Stick-up Height 2.0 feet
Depth to Water 11.10 feet below top of casing
Total Depth 15.7 feet below top of casing
Depth of Tubing (sample interval) 14.7 feet below top of casing

Sulfide: 0.03 mg/L
ferrous iron: 3.30 mg/L

Start purge 1200
Start parameters
End purge ~~1640~~ 1616
Total purge time: 4 hours, 10 minutes
Parameters Stabilized? N

Purging Information

	Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
*	1555				19.06	1748	6.26	-147.4	6.88	40
*	1605			~~40~~	~~20.~~ 17.38	1699	6.14	-122.7	6.55	45

Comments

EP1 sample 2 L for 30 minutes

* YSI samples were collected in a beaker and sampled without flow through chamber. Samples were not able to be taken earlier due to the amount of sediment and lack of flow.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CL2-05GW03 Page 1 of 1 Field Staff: AG

Date Sampled 07/11/01
Stick-up Height 2.0 feet
Depth to Water 9.71 feet below top of casing
Total Depth 36.0 feet below top of casing
Depth of Tubing (sample interval) 34.5 feet below top of casing

Sulfide: 0.10 mg/L
ferrous iron: 3.14 mg/L

Start purge 0930
Start parameters 0950
End purge 1030
Total purge time: 1 hours, ~~40~~ 0 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	3% Temperature (degrees C)	3% Spec. Cond. (uS)	+/-.1 pH	+/-10 ORP (mV)	10% DO (mg/L)	10% Turbidity (NTU)
0750	0	400 mL/min		13.95	2222	5.94	-106.7	1.36	3.01
0755	5			13.87	2220	5.94	-104.2	0.72	1.87
1000	10			13.84	2218	5.94	-102.5	0.63	1.66
1005	15			13.82	2212	5.94	-101.2	0.62	1.78
1010	20			13.82	2208	5.94	-100.6	0.52	1.71
1015	25			13.80	2210	5.94	-99.2	0.50	2.40
1020	30			13.74	2208	5.94	-98.0	0.50	2.71
1025	35			13.71	2206	5.94	-97.2	0.45	2.24
1030	40								

Comments
EPA collected 2 L in 10 minutes

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample GW5-03GW01 Page 1 of 1 Field Staff: L

Date Sampled 7/13/01
Stick-up Height 1.9 feet
Depth to Water 7.15 feet below top of casing
Total Depth 12.8 feet below top of casing
Depth of Tubing (sample interval) 10.8 feet below top of casing

Sulfide: 0.04 mg/L
ferrous iron: 3.30 mg/L

Start purge 1605
Start parameters 1620
End purge 1700
Total purge time: — hours, 55 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1620		300		13.68	929	6.01	-95.3	0.61	38.3
1625	5	300		13.83	929	6.00	-95.7	0.60	25.2
1630	10	300		13.83	930	6.01	-96.8	0.57	17.0
1635	15	300		13.78	929	6.00	-97.5	0.57	13.5
1640	20	300		13.76	928	6.00	-96.2	0.58	12.8
1645	25	300		13.71	931	6.00	-96.5	0.54	10.71
1650	30	300		13.66	932	6.01	-97.8	0.47	9.90
1655	35	300		13.68	929	6.00	-95.8	0.43	9.33
1700	40	300	5	13.68	928	6.01	-96.1	0.46	9.71

Comments
EPA collected 2L in 15 min.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CWS-03GW02R Page 1 of 1 Field Staff: LC

Date Sampled 7/13/01
Stick-up Height 1.8 feet
Depth to Water 7.23 feet below top of casing
Total Depth 37.5 feet below top of casing
Depth of Tubing (sample interval) 35.5 feet below top of casing

Sulfide: 0.07mg/L
ferrous iron: 3.30mg/L

Start purge 0945
Start parameters 1020
End purge 1120
Total purge time: 1 hours, 35 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1020		300		13.36	4269	6.10	-175.7	0.79	9.36
1025	5	300		13.29	4258	6.11	-171.6	0.35	5.97
1030	10	300		12.84	4258	6.15	-170.6	0.10	10.90
1035	15	300		12.96	4255	6.15	-169.4	0.05	10.66
1040	20	300		12.92	4249	6.15	-169.1	0.04	9.17
1045	25	300		12.92	4247	6.15	-168.3	0.04	9.10
1050	30	300		13.05	4242	6.15	-167.8	0.03	8.18
1055	35	300	6	13.07	4246	6.15	-164.8	0.10	7.27
1100	40	300		12.89	4232	6.16	-163.3	0.15	7.18
1105	45	300		13.07	4220	6.16	-158.8	0.12	6.97
1110	50	300		13.16	4224	6.15	-157.4	0.13	6.76
1115	55	300		12.93	4233	6.16	-155.8	0.13	6.38
1120	60	300	6	13.14	4201	6.16	-156.0	0.13	6.61

Comments

collect sample and duplicate, CWS-03GW02R99
EPA collected 2L in 15min.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CWS-03GW03N Page 1 of 1 Field Staff: LC

Date Sampled 7/13/01, 7/23/01
Stick-up Height 1.8 feet
Depth to Water 7.02, 7.37 feet below top of casing
Total Depth 61.25 feet below top of casing
Depth of Tubing (sample interval) 60.0 feet below top of casing

sulfide: 0.80 mg/L
ferrous iron: 3.30 mg/L

Start purge 1345, 1015, 1650
Start parameters
End purge 1600, 1745, 1750
Total purge time: 4 hours, ____ minutes
Parameters Stabilized? N

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)

Comments

purged 5gal on 7/13, continue purge to clear well on 7/23 but could not reach a steady flow, collect condensed suite w/ pump
EPA collected 2L in 45 min on 7/23, total sample time 2 hrs.

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Sample CW5-05GW02R Page 1 of 2 Field Staff: AG

Date Sampled 7/13/01
Stick-up Height ~~32.6~~ 0.7 feet
Depth to Water 6.15 feet below top of casing
Total Depth 32.6 feet below top of casing
Depth of Tubing (sample interval) 31.6 feet below top of casing

Sulfide : 0.46 mg/L
ferrous iron: 2.13 mg/L

Start purge 0950
Start parameters 1015
End purge 1210 20 [illegible]
Total purge time: ~~1~~ 2 hours, ~~55~~ minutes
Parameters Stabilized? Yes

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1015	0	320		13.30	17381	7.51	-248.1	0.00	12
1020	5			13.01	17755	7.54	-267.5	-0.05	11
1025	10			12.99	17845	7.53	-280.3	-0.09	11
1030	15		13.13 ~~13.02~~ 14		17873	7.51	-287.3	-0.07	9.8
1035	20			12.97	17877	7.51	-291.1	-0.10	9.6
1040	25			12.80	17982	7.52	-295.9	-0.10	10
1045	30			13.01	18000	7.51	-297.7	-0.07	8.7
1050	35			13.08	18065	7.49	-298.8	-0.11	8.5
1055	40			13.07	18042	7.48	-301.8	-0.07	9.2
1100	45			12.87	18102	7.48	-302.8	-0.06	7.8
1105	50			13.09	18148	7.47	-303.9	-0.06	7.8
1110	55			13.19	18157	7.46	-305.2	-0.04	7.0
1115	60			13.07	18186	7.46	-305.9	-0.04	7.4
1120	65			12.82	18218	7.45	-306.7	-0.03	6.1
1125	70			12.95	18292	7.45	-307.1	-0.01	7.0
1130	75			12.62	18282	7.44	-307.6	-0.01	5.9
1135	80			12.64	18380	7.43	-309.0	-0.01	4.6
1140	85			12.77	18330	7.43	-308.6	-0.01	5.2
1145	90	↓		12.50	18398	7.43	-309.3	0.00	5.3

Comments
EPA collects 2 L in 10 minutes.

ROUX ASSOCIATES, INC.
Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample 1AG CW5-05GW02R Page 2 of 2 Field Staff: AG

Date Sampled 7/13/01
Stick-up Height 0.7 feet
Depth to Water 6.15 feet below top of casing
Total Depth 32.6 feet below top of casing
Depth of Tubing (sample interval) 31.6 feet below top of casing

Sulfide 0.46 mg/L
ferrous iron: 2.13 mg/L

Start purge 0950
Start parameters 1015
End purge 1210
Total purge time: 2 hours, 20 minutes
Parameters Stabilized? Yes

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1150	95	320		12.60	18374	7.42	-309.8	0.00	5.3
1155	100	↓		12.94	18412	7.42	-309.7	0.01	5.4
1200	105	↓		13.05	18434	7.41	-311.5	0.01	4.2
1205	110	↓		13.10	18435	7.41	-311.3	0.01 AG	4.1
1210	115	↓	14	12.79	18462	7.41	-311.9	0.0 AG	4.2
1215	120								

Comments

EPA collect 2 L in 10 minutes

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Sample CW5-056W03 Page 1 of 1 Field Staff: AG

Date Sampled 7/13/01
Stick-up Height 1.60 feet
Depth to Water 7.05 feet below top of casing
Total Depth 52.35 feet below top of casing
Depth of Tubing (sample interval) 51.35 feet below top of casing

Sulfide: 0.04 mg/L
ferrous iron: 3.30 mg/L

Start purge ~~1330~~ 1330
Start parameters ~~1355~~ 1355
End purge 1425
Total purge time: ____ hours, ~~30~~ 55 minutes
Parameters Stabilized? Yes

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1355	0	210		15.61	11061	6.77	-200.0	-0.07	6.3
AG ~~1400~~ 1400	5			15.24	10952	6.76	-201.5	-0.05	6.3
~~14~~05	10			15.01	10739	6.76	-194.5	-0.02	5.4
1410	15			14.76	10548	6.76	-192.3	0.00	5.0
1415	20			14.81	10473	6.76	-194.4	0.01	4.3
1420	25			14.87	10429	6.76	-192.9	0.00	4.7
1425	30		7	14.85	10519	6.77	-187.4	0.00	4.2
1430	35								

Comments
EPA collected 2 L in 15 minutes
Sample Foams

CLICK TO CONTINUE

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Groundwater Sampling Form

Sample CW5-086W01 Page 1 of 1 Field Staff: LC

Date Sampled 7/30/01
Stick-up Height 2.1 feet
Depth to Water 10.40 feet below top of casing
Total Depth 16.0 feet below top of casing
Depth of Tubing (sample interval) 14.0 feet below top of casing

Sulfide: 0.10mg/L
Ferrous Iron: 3.30mg/L

Start purge 1050
Start parameters 1230
End purge 1305
Total purge time: 2 hours, 15 minutes
Parameters Stabilized? Y

Purging Information

Time of Day	Elapsed Time (min)	Purge Rate (mL/min)	Cumulative Volume Purged (gallons)	Temperature (degrees C)	Spec. Cond. (uS)	pH	ORP (mV)	DO (mg/L)	Turbidity (NTU)
1230		100	3	18.03	233	5.55	18.3	23.76	8.2
1235	5	100		17.76	227	5.57	25.3	23.18	6.7
1240	10	100		17.72	222	5.53	30.9	23.55	6.6
1245	15	100		17.82	219	5.57	35.0	19.81	7.1
1250	20	100		17.82	219	5.57	37.0	17.80	6.9
1255	25	100		17.86	217	5.67	38.1	14.89	7.0
1300	30	100		17.79	217	5.58	39.5	13.82	6.4
1305	35	100	4	17.89	217	5.58	41.6	13.63	7.1

Comments
air bubbles in tubing, could not reduce pump flow enough to stop air in flow-thru cell; EPA collected 4L in 40 min.
Total sample time = 2.5 hrs.