TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CH2-02GW02

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow → 13.5-18.5
Depth Sampled: 16.5 Feet Screened Interval Depth ~~12-17~~ feet
Sample Date & Time: 7 / 12 / 01 1600 hours N/A /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli

H&S Survey Meter N/A PPM Water Quality Instrument YSI-600XL
** Pre-~~pump~~ Tubing insertion WL below TOC 4.98 ft Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/TDS =	ICI-(4) NIB				
*Anions =	ICI-(4) NIB				

Notes: Casing Stickup = ~~1.01 ft~~ 7/12/01 1.0 ft above GS
Total Depth = 18.5 ft below TOC
Measuring Point = TOC (~~ft~~ below TOC) - Ft below TOC For all measurements.

Clock Time 24hr	Water Depth below MP ft **	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1400 - 1555	Start	Purging N/A	200	~10	12.77	415	5.96	-393.0	0.59	54.7	Stop Purge
1600 -	Begin	Sampling									

GS = Ground Surface TOC = Top of Casing
* Anions = nitrite, nitrate, phosphate, sulfate chloride

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

Note: This well is a 1.0 inch well.

** initial Water Level - prior to inserting tubing. Water level not continuously measured. Well 1.0 inches Inside diameter - can not fit both Water level indicator & tubing

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: 0.52mg/L
ferrous iron: 3.30mg/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	5.95	-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.

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CW5- 03GW02R

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow

H&S Survey Meter N/A PPM
Water Quality Instrument YSI-600XL
** Pre-~~pump~~ insertion WL 7.23 ft
Post - pump insertion WL N/A ft

Depth Sampled: 35.5 Feet
Screened Interval Depth 32.5-37.5 feet
Sample Date & Time: 7 / 13 / 01 1130 hours
N/A /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli
Signature: J. Danieli

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate / TDS =		ICI- (4) NIB			
* Anions =		ICI- (4) NIB			

Notes:
Casing Stick UP = 1.8ft
Total Depth = 37.5ft below TOC
Measurements in Feet Below TOC

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0945 -	Start	Purging									
1120	-	N/A	300	6	13.14	4201	6.16	-156.0	0.13	6.61	Stop Purging Water no Silt but Brown. Odor noted.
1130	-	Begin Sampling									

TOC = Top of casing * Anions = Chloride, Nitrite, Nitrate, Sulfate, phosphate.

** Water level only of initial water level prior to inserting tubing.
Well = 1.0 Inch. ~~Inside~~ Outside diameter
∴ Water level - not continuously measured

Note: Roux Collects a Duplicate at this location
No Duplicate for TtNUS

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

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

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

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

Depth
water
7.23ft
TOW TOC

Total Depth 37.5 feet below top of casing
Depth of Tubing (sample interval) 35.5 feet below top of casing

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.

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CW5-05GW02R

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow
Depth Sampled: 31.6 Feet Screened Interval Depth 27.6-32.6 feet
Sample Date & Time: 7 / 13 / 01 1215 hours N/A Dup
Sampler(s): J. Danieli
Data Recorded By: Signature:
Notes: Casing Stick up = 0.7 ft above GS
Total Depth = 32.6 below TOC
Measurements - below TOC

H&S Survey Meter N/A PPM Water Quality Instrument YSI-600XL
* Pre-~~pump~~ Tubing insertion WL 6.15 ft below TOC Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/TDS	= ICI-(4)N18				
* Anions	= ICI-(4)N18				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0950	- Start Purge										* Strong
1210	-	N/A	320	14	12.79	18462	7.41	-311.9	0.01	4.2	- Stop Odor purging
1215	- Begin Sampling										

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

Note: Water ~~clear~~/D Brown in color no silt & Strong odor noted.
GS: Ground Surface

TOC: Top of Casing
* Anions: Chloride, nitrite, nitrate, phosphate, Sulfate.

** Did not include water level indicator - down well w/ Tubing. Mykro Well 1.0 inch. Water level - prior to insert

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

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

Date Sampled 7/13/01

sulfide: 0.46 mg/L

Start purge 0950 Start Parameters: 1015

Stickup height = 9.7ft

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

ferrous iron: 2.13 mg/L

End purge 1210

Total purge time: 1 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 collected 2 L in 10 minutes.

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

Sample AG 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
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 2.15 mg/L

Start purge 0950
Start parameters 1015
[illegible] 1210
Total purge time: 1 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)
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	0.01 AG	4.2
1215	120								

Comments EPA collect 2 L in 10 minutes

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CW5-05GW03

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow
Depth Sampled: 51.35 Feet Screened Interval Depth 47.35-52.35** feet
Sample Date & Time: 7 / 13 / 01 1430 hours N/A /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli

H&S Survey Meter N/A PPM Water Quality Instrument YSI 600XL
Pre-pump ~~insertion~~ Tubing WL 7.05 ft below TOC Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/TDS =	ICI-(H) N18				
* Anions =	ICI-(4) N18				

Notes: Casing Stick-up = 1.60 ft above Ground Surface.
Total depth = 52.35
Measurements in Ft below TOC

Clock Time 24hr	Water Depth below MP ft **	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1330	—	Start Purge	N/A								
1425	—	N/A	210	7 gal	14.85	10519	6.77	-187.4	0.00	4.2	Stop Purging
1430	—	Begin Sampling									

TOC = Top of Casing

* Anions = Chloride, nitrite, nitrate sulfate + phosphate.

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

Note: Strong Odor, Brown in color (not turbid - no particulate matter). Reacting w/ HCL in VOA vials - effervescence

** Water level measured prior inserting Tubing - Water level not continuously measured.

Well 4 inch inside diameter

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Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CW5-05GW03 Page 1 of 1 Field Staff: AG

Date Sampled 7/13/01 Sulfide: 0.24 mg/L Start purge 130 → Stat Parameters = 135

~~Stick up height = 1.00 ft~~

Depth to Water 7.05 feet below top of casing ferrous iron: 3.30 mg/L End purge 1425

Total Depth 52.35 feet below top of casing Total purge time: ____ hours, 30 minutes

Depth of Tubing (sample interval) 51.35 feet below top of casing 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 ~~200~~ 1400	5			15.24	10952	6.76	-201.5	-0.05	6.3
1405	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

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CW5-03GW01

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow **
Depth Sampled: 10.8 Feet Screened Interval Depth 7.8-12.8 feet
Sample Date & Time: 7 / 13 / 01 1710 hours N/A /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli

H&S Survey Meter N/A PPM Water Quality Instrument YSI 600XL
Pre-~~pump~~ Tubing insertion WL 7.15 ft Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/TDD =	1C1-(4) N18				
* Anions =	1C1-(4) N18				

Notes: Total Depth = 12.8 ft below TOC
Casing Stickup = 1.9 ft above Ground Surface.
Measurements in Ft below TOC

Clock Time 24hr	Water Depth below MP ft **	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged liters	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1605 - Start Purging											
1700	-	N/A	300	5	13.68	928	6.01	-96.1	0.46	9.71	Stop purge
1710 Begin Sampling											

TOC = Top of Casing

* Anions = chloride, nitrate, nitrite, sulfate, phosphate

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

** Water level measured prior to inserting tubing. Water level not measured continuously.
Well = 1.0 inch inside diameter

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Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample CW5-03GW01 Page 1 of 1 Field Staff: L

Date Sampled 7/13/01 → 0.04 mg/L Start purge 1605 → Start Parameters = 1620

[redacted]

Stick-up height = 9 ft

Depth to Water 7.15 feet below top of casing ferrous iron: 3.30 mg/L End purge 1700

Total Depth 12.8 feet below top of casing Total purge time: – hours, 55 minutes

Depth of Tubing (sample interval) 10.8 feet below top of casing 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.

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: 7/16/01/~~CB5-01GW01~~ CB5-01GW01

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: MS/MSD (If applicable)

Sample Method: Low Flow
Depth Sampled: 15.15 Feet Screened Interval Depth 12.15-17.15 feet
Sample Date & Time: 7 / 16 / 01 1220 hours N/A/Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli
Notes: Casing Stickup Height = 1.9ft above Ground Surface.
Total Depth = 17.15
Measurements in Ft below TOC

H&S Survey Meter N/A PPM
Water Quality Instrument YSI-600XL
** Pre-pump ~~insertion~~ tubing WL 10.91 ft
Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/TDS=		IC/-(4)	N18		
*Anions =		IC/-(4)	N18		

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1045	— Start Purging										
1220	—	N/A	250	6	16.43	2535	6.30	-213.6	0.04	22.4	Stop Purging
1220	Begin Sampling										

Note: Water brownish color & slight odor

TOC = Top of Casing
*Anions = chloride, nitrite, nitrate, sulfate, phosphate.

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

** Water level - measured prior to inserting tubing & not continuosly measured. Well = 2.0 inches in diameter (inside diameter). Can not fit water level indicator in well w/

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

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

Date Sampled 7/16/01
Stick-up Height 1.9 feet
Depth to Water 10.91 feet below top of casing
Total Depth 17.15 feet below top of casing
Depth of Tubing (sample interval) 15.15 feet below top of casing

Sulfide: 0.44 mg/L
ferrous iron: 3.3 mg/L

Start purge 1045
Start parameters 1125
End purge 1220
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)
1125		250		15.79	2553	6.19	-184.3	0.39	138
1130	5	250		16.64	2516	6.20	-192.3	0.03	90.2
1135	10	250		16.49	2524	6.24	-201.4	0.04	110
1140	15	250		16.45	2503	6.26	-203.3	0.06	47.1
1145	20	250		16.61	2523	6.28	-205.7	0.07	34.6
1150	25	250		16.14	2524	6.29	-207.5	0.08	28.9
1155	30	250		16.22	2527	6.28	-206.5	0.10	27.0
1200	35	250		16.24	2527	6.29	-206.5	0.08	28.2
1205	40	250		16.29	2532	6.28	-207.7	0.08	29.5
1210	45	250	5	16.41	2539	6.29	-211.8	0.04	23.3
1215	60	250		16.42	2530	6.29	-212.0	0.04	24.5
1220	55	250	6	16.43	2535	6.30	-213.6	0.04	22.4

Comments
EPA collected 4L in 30 min.

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CB7-02/GW02 7/16/01

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow
Depth Sampled: 29.0 Feet Screened Interval Depth 25-30 feet
Sample Date & Time: 7 / 16 / 01 1300 hours N/A/Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli
Notes: Total Depth = 30.0 Ft below TOC
Measurements in Ft below TOC
Casing Stick-up Height = 1.4 ft above Ground Surface

H&S Survey Meter N/A PPM
Pre-~~pump~~ Tubing insertion WL 12.39 ft **
Water Quality Instrument YSI-600XL
Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/TDS =	IC1-(4) N18				
*Anions =	IC1-(4) N18				

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1005	- Start Purge										
1255	-	N/A	300	7/16/01	13.12	1215	5.61	-63.3	0.04	7.0	Stop Purge
1300	Begin sampling										

Note: Water - red & cloudy initially - after 1hr+50min water begins to clear
1150 - begin reading parameters.

TOC = Top of Casing
*Anions = Nitrate, nitrite, sulfate, phosphate, chloride.

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

** = water level - measured prior to inserting tubing & not continuously measured. Well = 0.5 inches in diameter (inside diameter). Can not fit water level indicator in well w/ tubing

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

Sample CB7-02-GW02 Page 1 of 1 Field Staff: AG

Date Sampled 7/16/01
Stick-up Height 1.4 feet
Depth to Water 12.39 feet below top of casing
Total Depth 30.0 feet below top of casing
Depth of Tubing (sample interval) 29.0 feet below top of casing

Sulfides 0.05 mg/L
ferrous iron 3.30 mg/L

Start purge 1005
Start parameters 1150
End purge 1300
Total purge time: 2 hours, 55 minutes
Parameters Stabilized? yes

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)
1150	0	300	15	13.30	1217	5.49	-64.1	0.32	200
1155	5			13.10	1224	5.53	-69.2	0.15	50
1200	10			13.07	1225	5.54	-72.0	0.08	37
1205	15			13.09	1218	5.55	-72.0	0.06	40
1210	20			13.06	1221	5.56	-65.9	0.10	40
1215	25			13.10	1219	5.60	-70.9	0.05	22
1220	30			13.21	1220	5.59	-71.2	0.05	11
1225	35			13.09	1219	5.60	-70.1	0.05	16
1230	40			13.13	1218	5.61	-69.5	0.05	8.8
1235	45			12.97	1217	5.61	-68.1	0.05	7.0
1240	50			13.07	1221	5.61	-67.0	0.05	6.9
1245	55			13.10	1217	5.62	-65.8	0.04	7.2
1250	60			13.11	1216	5.62	-64.6	0.04	6.6
1255	65			13.12	1215	5.61	-63.3	0.04	7.0
1300	70		23						

Comments

EPA sampled ~~to~~ AG 2 L in 10 minutes
It took a long time of purging to decrease the amount of sediment in the water.

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CB3-03GW03

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow 1
Depth Sampled: 31.0 Feet Screened Interval Depth 28.0-33.0 feet
Sample Date & Time: 7/16/01 1500 hours N/A /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli
Notes: Casing stickup Height = 1.9 ft above ground surface
Total depth = 33.0 ft below TOC
Measurements in ft below TOC

H&S Survey Meter N/A PPM
** Pre-~~pump~~ Tubing insertion WL _____ ft below TOC
Water Quality Instrument YSI-600XL
Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate / TDS =	1C1-(4)N18				
* Anions =	1C1-(4)N18				

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1340	—	Start Purging									
1450	—	N/A	300	~7	16.95	1260	6.25	-196.4	0.06	19.2	Stop Purge
1500	—	Begin Sampling									

Note: Odor noted & water slight Gray color.

TOC = Top of Casing
* Anions = nitrite, nitrate, phosphate, sulfate, & chloride

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

** - water level measured prior to inserting tubing. Water level not continuously measured. Well = 0.5 inches - inside diameter

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Final GSIP SOW Soil/Groundwater Investigation
Groundwater Sampling Form

Sample ~~CB3GW03~~ CB3-03GW03 LC

Page 1 of 1

Field Staff: LC

Date Sampled 7/16/01
Stick-up Height 1.9 feet
Depth to Water 9.17 feet below top of casing
Total Depth 33.0 feet below top of casing
Depth of Tubing (sample interval) 31.0 feet below top of casing

Sulfide: 0.74 mg/L
ferrous iron: 3.30 mg/L

Start purge 1340
Start parameters 1410
End purge 1450
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)
1410		300		19.45	1273	6.25	-165.2	0.02	118
1415	6	300		17.43	1268	6.24	-179.9	0.02	33.6
1420	10	300		17.31	1265	6.24	-182.9	0.06	22.3
1425	15	300		17.28	1268	6.25	-186.1	0.05	26.7
1430	20	300	5	17.43	1264	6.25	-187.9	0.05	20.1
1435	25	300		17.03	1265	6.25	-191.7	0.07	23.6
1440	30	300		17.03	1261	6.25	-192.9	0.06	19.3
1445	35	300		16.99	1258	6.25	-194.5	0.06	19.1
1450	40	300	7	16.95	1260	6.25	-196.4	0.06	19.2

Comments
EPA collected 2L in 15 min.

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CB7- 02GW01

Tetra Tech NUS Job No./PMS ~~N0345-~~ N0564- 0324
QC: N/A (If applicable)

Sample Method: Low Flow
Depth Sampled: 20.0 Feet Screened Interval Depth 17.0-22.0 feet
Sample Date & Time: 7/16/01 1605 hours N/A/Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli

H&S Survey Meter N/A PPM Water Quality Instrument YSI-600XL
** Pre-~~pump~~ insertion WL 11.32 ft below TOC Post - pump insertion WL ____ ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/ TDS =		IC1- (4) N/B			
* Anions =		IC1- (4) N/B			

Notes: Total Depth = 22.0 ft below TOC
Casing Stickup Height = 1.7 ft ~~above ground surface.~~
Measurements in Ft below TOC.

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1400	—	Begin Purging									
1600	—	N/A	400	10	13.58	2943	6.02	-131.2	0.04	6.9	Stop Purge
1605	—	Begin Sampling									

Note: occasionally air bubbles within flow through cell - may have an effect on parameters

TOC = Top of Casing
* Anions = Chloride, nitrate, nitrite, Phosphate, Sulfate.

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

** - Water level measured - prior to inserting tubing. Water level not continuously measured - MyKro well = 0.5 inches inside diameter Can not fit both tubing + water level indicator down well.

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

Sample CB7-02GW01 Page 1 of 1 Field Staff: AG

Date Sampled 7/16/01
Stick-up Height 1.7 feet
Depth to Water 11.32 feet below top of casing
Total Depth 22.0 feet below top of casing
Depth of Tubing (sample interval) 20.0 feet below top of casing

Sulfide: 0.01 mg/L
ferrous iron: 5.30 mg/L

Start purge 1400
Start parameters 1430
End purge 1600
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)
1430	0	400	2	13.84	2968	5.94	-128.1	0.27	17
1435	5			13.43	2965	5.98	-131.4	0.07	45
1440	10			13.37	2966	5.98	-132.6	0.05	15
1445	15			13.45	2963	5.98	-127.8	0.17	8.0
1450	20			13.29	2963	6.01	-132.4	0.04	6.7
1455	25			13.58	2963	6.01	-133.9	0.03	6.6
1500	30			13.68	2958	6.01	-133.8	0.06	6.4
1505	35			13.59	2957	6.02	-134.3	0.04	7.1
1510	40			13.64	2962	6.01	-133.9	0.04	6.6
1515	45			13.59	2961	6.01	-134.0	0.03	7.2
1520	50			13.66	2957	6.00	-126.5	0.17	6.6
1525	55			13.62	2950	6.02	-132.1	0.03	11
1530	60			13.55	2950	6.03	-132.3	0.03	10
1535	65			13.58	2951	6.02	-132.2	0.02	9.5
1540	70			13.63	2952	6.01	-132.0	0.03	9.1
1545	75			13.72	2950	6.02	-131.9	0.03	6.8
1550	80			13.45	2951	6.01	-131.5	0.04	7.5
1555	85			13.52	2949	6.01	-131.2	0.04	6.9
1600	90			[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

AG

Comments
Some bubbles occur in flow through cell, may effect parameters
EPA collected 2L in 10 minutes.

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CB7-01GW01

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: IP6W-DP03-071701 (If applicable)

Sample Method: LOW FLOW

H&S Survey Meter N/A PPM
Water Quality Instrument YSI-600XL
**Pre-~~pump~~ insertion WL 4.84 ft below TOC tubing
Post - pump insertion WL N/A ft below TOC

Depth Sampled: 11.2 Feet* Screened Interval Depth 7.2-12.2 feet below TOC
Sample Date & Time: 7/17/01 1115 hours 1200 /Dup
Sampler(s): J. Danieli J. Lambert
Data Recorded By: J. Danieli Signature: J. Danieli

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate / TDS =	1C1-(4) N18				
* Anions =	1C1-(4) N18				

Notes: Total Depth = 12.2 ft below TOC
Casing Stick-up Height = 1.4 ft above Ground Surface
*measurements in Ft below TOC

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gals	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0920	—	Start Purge									
1110	—	N/A	300	~11	16.74	1455	6.58	-206.2	0.02	16	Stop Purging
1115	-	Begin Sampling									

Note: Water Brown in Color.

TOC = Top of Casing.

* Anions = Chloride, ~~TDS~~, Nitrite, Nitrate, Sulfate, & phosphate

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

** Water level measured prior to inserting tubing
Not continuously measured
The well 0.5 inches - 1.0 inches insidediameter. Can not fit tubing & water level indicator down w/

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

Sample CB7-010W01 Page 1 of 1 Field Staff: AG

Date Sampled 7/17/01
Stick-up Height 1.4 feet
Depth to Water 4.84 feet below top of casing
Total Depth 12.2 feet below top of casing
Depth of Tubing (sample interval) 11.2 feet below top of casing

Start purge 0920
Start parameters 0950
End purge 1115
Total purge time: 1 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)
0950	0	300	4	16.86	1446	6.49	-200.0	0.07	100
0955	5			16.81	1444	6.51	-204.2	0.08	60
1000	10			16.80	1442	6.52	-204.6	0.08	37
1005	15			16.78	1440	6.54	-205.0	0.08	31
1010	20			16.77	1443	6.54	-204.5	0.06	29
1015	25			16.77	1444	6.55	-205.1	0.05	24
1020	30			16.76	1446	6.55	-205.1	0.05	23
1025	35			16.75	1446	6.56	-206.1	0.06	23
1030	40			16.75	1446	6.57	-206.6	0.05	23
1035	45			16.73	1449	6.56	-206.9	0.05	21
1040	50			16.74	1448	6.56	-206.9	0.05	19
1045	55			16.76	1450	6.57	-206.6	0.03	21
1050	60			16.76	1451	6.57	-207.2	0.03	20
1055	65			16.75	1451	6.58	-207.1	0.03	16
1100 ~~1060~~	70			16.76	1454	6.57	-206.9	0.02	16
1105 AG	75			16.74	1455	6.57	-206.2	0.02	16
1110	80		11	16.81	1452	6.58	-207.0	0.02	15
1115	85								
~~1120~~	~~90~~								

Comments
EPA collected 4L in 30 minutes.
Sheen on water

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CB3-02-GW01NS

Tetra Tech NUS Job No./PMS N0~~345~~ 564 - ~~0310~~ 0324
QC: N/A (If applicable)

Sample Method: Low Flow / Groundwater
Depth Sampled: 18.0 Feet Screened Interval Depth 15-20 feet below TOC
Sample Date & Time: 7 / 9 / 01 1615 / 7/10/01 / 0800 hours N/A /Dup
Sampler(s): J. Danieli & K Nuppula. K Nuppula
Data Recorded By: J. Danieli KBN Signature: J. Danieli
Notes: Depth sampled = Feet below Top of Casing. Total Depth = 20ft below Top of Casing. Stickup length = 1.3ft. above Ground Surface.

H&S Survey Meter N/A PPM
~~Pre-pump~~ ** Insertion WL 15.11 ft
Pretubing
Water Quality Instrument YSI-600XL
Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate	C1036020				
TDS	C1036020				
*Anions	C1036020				

Clock Time 24hr	Water Depth below MP ft **	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1200 -	Begin Purging										
1305 -	Start Parameters										
1303	~~[illegible]~~			PURGING ENDS							
1605	SAMPLING STARTS										
1605	-	1	30	2.5 gal	23.17	2110	7.55	-69.8	12.63	167	
1615	Began Sampling → Roux Sampled										
** Well went dry - No TtNUS Sample - Will Return 7/10/01 To Sample after Well Recharged.											
1010 0800	- TtNUS Collects Sample → note - Flow very low. (See Log Book for details).										

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

* Anions = Chloride, Nitrite, Nitrate, Phosphate, Sulfate.

** Note: not able to measure water level w/ tubing in well. Well only 0.5 inches in diameter - can not fit water level w/ tubing

TOC - Top of Casing.

Note: Could only Purge 50mL/min - Greater Purge Rate = too many air bubbles. Lower Purge Rate = would stop pulling water from well. May have to Purge for 4 hrs - if can not Reach stabilization.

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

Sample ~~CB-03GW~~ CB3-03GW01 JC Page 1 of 1 Field Staff: LC

Date Sampled 7/9/01
Stick-up Height 1.3 feet
Depth to Water 15.11 feet below top of casing
Total Depth 20.0 feet below top of casing
Depth of Tubing (sample interval) 18.0 feet below top of casing

Sulfide: 0.08mg/L
Ferrous Iron: 2.70mg/L
Ferrour Iron = 2.70mg/L

Start purge 1200
Start parameters —
End purge ~~1555~~ 1600 JC
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)
1305		30		28.33	2394	7.51	-21.0	12.16	270
1310	5	30		28.50	2390	7.53	-14.2	12.76	263
1315	10	30		28.16	2389	7.54	-13.7	13.22	261
AT 1530 ~~1520~~	5	30		32.12	2061	7.59	17.3	11.67	489
JC 1535 ~~1525~~	10	30		32.11	2081	7.60	17.1	11.73	555
JC 1540 ~~1600~~ ~~1530~~	15	30							
1555		30		22.68	1140	7.35	-88.4	9.78	140
1600		30		22.91	1509	7.43	-85.3	10.88	156
1605		30		23.17	2110	7.55	-69.8	12.63	167

Comments
Very low purge rate (<30mL/min), air in tubing is impacting parameters
1615 collect condensed suite (1830 sampling complete)

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CL2-05~~4~~GW03 1D7/11/01

Tetra Tech NUS Job No./PMS N0564-0324 ~~N0345~~
QC: N/A (If applicable)

Sample Method: Low Flow
Depth Sampled: 34.5 Feet Screened Interval Depth 31-36 feet
Sample Date & Time: 7 / 11 / 01 1030 hours N/A /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli
Notes: Casing Stick-up = 2.0 ft above Ground Surface.
Total Depth = 36.0 ft
Measurements = feet below TOC

H&S Survey Meter N/A PPM Water Quality Instrument YSI-600YL
** Pre-~~pump~~ tubing insertion WL 9.71 ft below TOC Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate / TDS =	C 0131020				
* Anions =	C 0131020				

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0930	Begin	N/A Purge.									
1025	—	N/A	400 ml/min	~7.5 gal	13.71	2206	5.94	-97.2	0.43	2.24	
1030	Stop	Purging - Begin Sampling.									

TOC = Top of Casing

** - Can not fit both water level indicator & Tubing down well. Mykro Well 0.5 inches in diameter. Only initial water level Recorded - prior to inserting tubing.

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

* Anions = nitrate, Nitrite, Chloride, Sulfate, phosphate.

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: ____ hours, 40 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%
0950	0	400 mL/min		13.95	2222	5.94	-106.7	1.36	3.01
0955	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

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CL2-03 ~~4~~ 1 GW02 1/11/01

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow
Depth Sampled: 26.4 Feet Screened Interval Depth 22.9-27.9 feet
Sample Date & Time: 1 / 11 / 01 1215 hours N/A /Dup
Sampler(s): J. Danieli + K. Nuppula
Data Recorded By: J. Danieli Signature: J. Danieli
Notes: Casing Stick up = 0.7ft above GS.
Measurements in feet below TOC
Total Depth = 27.9

H&S Survey Meter N/A PPM Water Quality Instrument YSI-600XL
** Pre-~~pump~~ insertion WL 12.75 ft Post - pump insertion WL N/A ft
tubing below TOC

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate / TDS =	C 0131020				
*Anions =	C 0131020				

Clock Time 24hr	Water Depth below MP ft **	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal.	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0930	Begin Purge										
1155	–	N/A	300	13	14.94	1041	5.41	-74.6	2.24	21.0	Stop Purging
1215	Begin Sampling.										

GS = Ground Surface
TOC = Top of Casing
** = can not fit both water level indicator + tubing in well. Well = mykro well 0.5 inches in diameter
Initial Water level Recorded - prior to inserting tubing.
* Anions = nitrite, Nitrate, sulfate, phosphate,

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

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

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

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

Date Sampled 7/11/01
Stick-up Height 0.7 feet
Depth to Water 12.75 feet below top of casing
Total Depth 28.9 feet below top of casing
Depth of Tubing (sample interval) 26.4 feet below top of casing

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)

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: Industri-Plex
Sample ID: CL2-03/GW01 ID 7/11/01

Tetra Tech NUS Job No./PMS ~~N0345~~ N0564-0324
QC: N/A (If applicable)

Sample Method: Low Flow
Depth Sampled: 16.5 Feet Screened Interval Depth 13.5-18.5 feet
Sample Date & Time: 7/11/01 1600 hours N/A /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli
Notes: Total Depth = 18.5 ft below TOC
Casing Stick-up = 1.7 ft above Ground Surface
measurements - in ft below TOC

H&S Survey Meter N/A PPM
** Pre-~~pump~~ Tubing insertion WL 13.71 ft
Water Quality Instrument YSI-600XL
Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/TDS =	C	0131020			
* Anions =	C	0131020			

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gal	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1400	Begin Purge										
~~1405~~	~~5~~	N/A	—	7/11/01 ~~1.25 gals~~	~~17.38~~	~~1699~~	~~6.14~~	~~-122.7~~	~~6.55~~	~~45~~	~~Stop Purge~~
~~1610~~	~~Start Sampling~~			ID 7/11/01							
1555	—	N/A	200	10 gal	17.71	1223	5.63	9.1	5.98	8.13	Stop Purge
1600	Begin to Sample										

TOC = Top of Casing
* Anions = nitrite, nitrate, chloride, sulphate + phosphate.

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

** water level measured - prior to installing tubing. Micro well 0.5 inch in diameter. Can not fit both water level indicator & Tubing down well.

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
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)
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

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

CLICK TO CONTINUE

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: _____ Industri-Plex _____ 10/7/11/01
Sample ID: CL2-059GW01NS

Tetra Tech NUS Job No./PMS N0564-0324 ~~N0345~~
QC: N/A (If applicable)

Sample Method: Low Flow
Depth Sampled: 14.7 Feet Screened Interval Depth 10.7-15.7 feet
Sample Date & Time: 7 / 11 / 01 1610 hours N/A /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli
Notes: Total Depth = 15.7
Measurements From Below TOC
Casing Stick-up = 2.0 ft above Ground Surface

H&S Survey Meter N/A PPM Water Quality Instrument YSI-C600XL
** Pre-pump ~~insertion~~ Tubing WL 11.10 ft below TOC Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Bicarbonate/TDS =	C0131020				
* Anions =	C0131020				

Clock Time 24hr	** Water Depth below MP ft	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~liters~~ gals	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1205	Begin	Purge.									
1605	—	N/A	—	1.25 gals	17.38	1699	6.14	-122.7	6.55	45	Stop Purge
1610	Begin	Sampling									

* Anions = nitrite, nitrate, sulfate, phosphate, chloride
** - Water level measured before inserting tubing. Micro Well = 0.5 inches in diameter. Can't measure water level w/ tubing
TOC = Top of casing.

1. Pump dial setting (for example: hertz, cycle/min, etc.)
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).
4. Completed copies of ~~calibration forms and~~ sample log sheets from the ISRT's consultant (Roux Associates) are attached. Refer to the copies for additional sample details.

Tt NUS Form 0009

Note 1: Well did not stabilize
See Log Book for details
YSI Readings - from cup -
did not run through flow through cell

Note 2: Water [illegible] Plastic Bottle + Cup