TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AE07-0028-022002

Tetra Tech NUS Job No./PMS N4123-0324
QC: N/A (If applicable)

Sample Method: low-flow / DPT - Waterloo Sampler
Depth Sampled: 25 Feet Screened Interval Depth N/A feet
Sample Date & Time: 2 / 20 / 02 1030 hours N/A /Dup
Sampler(s): J. Lambert
Data Recorded By: J. Lambert Signature: J. Lambert
Notes:

H&S Survey Meter N/A PPM Field Instrument Group A/B/C/D
Pre-pump insertion WL 5.8 ft Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Metals/Bicarb./TDS/Anions	442780				
VOAs	1281020				
As. Spec.	456354				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
	N/A	N/A									
0850			Begin	purge							*
0925			34		9.24	775	7.29	162.1	9.24	138	
0930			36		9.42	764	7.20	158.7	9.16	118	
0935			36		9.69	755	7.06	156.8	9.21	259	
0940			36		9.83	753	7.05	155.5	9.27	531	
0945			34		9.94	750	6.98	154.9	9.36	132	
0950			31		10.15	746	6.96	152.3	9.37	54.8	
0955			32		10.24	745	6.90	152.2	9.38	36.6	
1000			36		10.37	744	6.89	153.5	9.39	30.8	
1005			36		10.48	744	6.88	153.6	9.39	26.7	
1010			36		10.64	743	6.85	154.6	9.38	23.8	
1015			36		10.74	742	6.83	156.2	9.38	19.5	
1020			35		10.82	742	6.83	157.0	9.38	19.1	
1025			35	1.0	10.91	742	6.83	158.0	9.37	18.2	

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).

* Water has a yellow tinge

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TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF01-0025-021102

Tetra Tech NUS Job No./PMS N4123-0324
QC: NA (If applicable)

Sample Method: Low Flow
Depth Sampled: 25 Feet bgs Screened Interval Depth _____ feet bgs
Sample Date & Time: 2/1/02 0947 hours NA /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Danieli Signature: J. Danieli
Notes:
MP = Top of PVC. PVC Height above Ground Surface = 1.18 ft above Ground Surface.
bgs: below ground surface

H&S Survey Meter NA PPM
Field Instrument Group A/B/C/D
Pre-~~pump~~ insertion WL 18.75 ft
Post - pump insertion WL _____ ft
5 tubing

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOC	1291020				
Metals	010052				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
		NA									
0810	18.80		300		13.01	1624	6.35	-197.4	2.91	218	decrease pump rate
0815	18.80		250		12.94	1662	6.35	-308.0	1.88	114	
0820	18.80		250		12.88	1675	6.34	-323.3	1.74	89.4	
0825	18.80		210		12.50	1685	6.36	-326.0	1.72	63.4	
0830	18.80		210		12.49	1687	6.38	-322.4	1.72	45.6	
0835	18.80		210		12.46	1693	6.38	-327.6	1.65	43.9	
0845	18.80		200		12.35	1698	6.38	-217.8	1.75	31.8	
0850	18.80		200		12.19	1691	6.38	-208.9	2.98	30.8	
0855	18.80		200		12.25	1692	6.37	-252.8	2.45	22.8	
0900	18.80		200		12.34	1693	6.36	-282.7	2.39	19.7	
0905	18.80		200		12.11	1690	6.37	-297.3	2.01	15.5	
0910	18.80		200		11.93	1689	6.38	-292.7	1.85	14.3	
0915	18.80		200		11.93	1693	6.38	-289.4	1.68	9.02	
0920	18.80		200		11.98	1696	6.37	-285.4	1.66	7.94	
0925	18.80		200		12.13	1694	6.37	-285.3	1.61	6.76	
0930	18.80		200		12.04	1693	6.38	-284.0	1.58	5.95	

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).

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1.78
-.6
1.18

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF01-0025-020102

Tetra Tech NUS Job No./PMS N4123-0324
QC: _____ (If applicable)

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	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
0935	18.80		200		11.44	1608	6.38	-384.1	1.54	4.60	
0940	18.80		200		11.21	1699	6.37	-280.0	1.54	4.87	
0945	~~18.80~~ 18.80		200	~5 gals	11.06	1698	6.38	-277.0	1.47		
0946				Stop Purging							
0947						Start 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).

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TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW-FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW- AF01 - ~~MID~~ DEEP - 020702

Tetra Tech NUS Job No./PMS 4123-0324
QC: NO SAMPLE (If applicable)

Sample Method/Pump Type DPT
Depth of Pump Insertion from MP: _____ Feet

Sample Date & Time: 2/7/2002 _____ hours _____ /Dup

Sampler(s): NO SAMPLE

Data Recorded By (Signature): Kevin O'Neill

Notes:

H&S Survey Meter _____ PPM
Pre-pump insertion WL _____ ft

Field Instrument Group A/B/C/D
Post - pump insertion WL _____ ft

Analytical Parameters Collected (check appropriate):
VOA ____ 3-40mL VOA vials w/HCl
SVOC ____ -One liter amber glass
Metals ____ 1-1Liter poly (HNO3 less than 2 pH)
Other ____

Clock Time 24hr	Water Depth below MP ft	Depth	Purge Rate ML/min	NOTES	Temp °C	Spec. Cond. 2 uS/cm	DO mg/L	pH	ORP/Eh3 Mv	Turbidity NTU	Comments
PURGE	START: 16'										
2/6 ←	0917	58'	NO Flow after 15 min								
←	0927	58.5	flow < 1 ml/min Then stopped								
←	0947	59	Flow stopped								
1009		62'	Flow stopped	NO Formation water						only retrieved	
1030		64'	Flow stopped							DI pumped	
1055		65	Flow stopped at 1110 hours — grouted hole							down hole	
1110	New hole										
0730		58'	Flow stopped								
0817		63.5	Flow stopped								
0843		68.5	No flow - Tried push H_2O downhole + then wait before pumping - NO Flow								
0902		71.5	NO Flow see above								
0938			WAITED TO see if rest would settle out fines								
0951		73.5	NO flow after pause								
0957		77.5	NO flow after pause								
1020	Stopped pumping + grouted hole										

1
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).

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Intermediate target depth ~58' bgs
Refusal anticipated at 100' bgs
▽ GW at ~16' bgs

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW-FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW- AF01-0058-020602 NO SAMPLE Today

Tetra Tech NUS Job No./PMS 4123-0324
QC: _____ (If applicable)

Sample Method/Pump Type DPT / peristaltic pump
Depth of Pump Insertion from MP: 58 Feet

Sample Date & Time: 2/6/2002 / hours /Dup

Sampler(s): _____

Data Recorded By (Signature): Kevin O'Neill

Notes: F-1a location along Mishawum Rd

H&S Survey Meter _____ PPM
Pre-pump insertion WL _____ ft

Field Instrument Group A/B/C/D
Post - pump insertion WL _____ ft

Analytical Parameters Collected (check appropriate):
VOA 3 3-40mL VOA vials w/HCl
SVOC _____ -One liter amber glass
Metals 1 1-1Liter poly (HNO3 less than 2 pH)
Other _____

Purge/Sample Stop _____

Clock Time 24hr	Water Depth below MP ft	Drove to	Purge Rate ML/min	NOTES	Temp °C	Spec. Cond. 2 uS/cm	DO mg/L	pH	ORP/Eh3 Mv	Turbidity NTU	Comments
PURGE	START:	~~0915~~	0915	10 2-6-02							
0927	~16	58.5	2	1ml/min							
0947		59		No FLOW							
1009		62		No flow							
1030		64'		No flow							
1055		65'		NO Flow stopped purge attempts at 1110 hrs							
	Pulled Rod & grouted hole per G. Bullard. Will replace sampling point screens w/ finer mesh & attempt to sample again										

1
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).

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TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF01-0074-011702

Tetra Tech NUS Job No./PMS N4123-0324
QC: N/A (If applicable)

Sample Method: Waterlow w/ direct push
Depth Sampled: 13.5 Feet Screened Interval Depth 13.5 feet
Sample Date & Time: 1 / 17 / 02 1308 hours N/A /Dup
Sampler(s): Brian Fennelly
Data Recorded By: B. Fennelly Signature: Brian Fennelly
Notes: GW reported at 16' bgs.

H&S Survey Meter N/A PPM
Pre-pump insertion WL N/A ft
Field Instrument Group A/B/C/D (Turb B)
Post - pump insertion WL ____ ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCs	0144040				
metals	1218030				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1000	Start purge		6								
1215	N/A	N/A			8.63	460	6.54	-43.2	12.13	14.50	
1235					8.61	436	6.58	-45.4	12.14	9.20	
1245					8.62	434	6.61	-46.8	12.14	9.30	
1257					8.70	428	6.61	-47.6	12.04	8.76	
1306			Stop Purging								
1308			Start Sampling		-	1.0 1/17/02					

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-IAF01-0115-040802

Tetra Tech NUS Job No./PMS N4123-0324
QC: Matrix Spike (If applicable)

Sample Method: Low Flow w/ Grundfess
Depth Sampled: 114.5 Feet bgs Screened Interval Depth 119.5-109.5 Feet bgs
Sample Date & Time: 4/8/02 1130 hours NA /Dup
Sampler(s): J. Danieli
Data Recorded By: J. Daniel Signature: J. Danieli
Notes: MP = Top of PVC = TPVC = Stickup = 2.5 ft above Ground Surface

H&S Survey Meter NA PPM Field Instrument Group A/B/C/D
Pre-~~pump insertion~~ pumping WL 17.30 ft TPVC Post - pump insertion WL 17.3 ft

USI Lost Readings USI 1st 5 Readings

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCS	1291020				
metals	010256				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0945	17.30	100 Hz	275		11.83	+480	6.34	-340.7	-0.46	151.5	
0950	17.30	100 Hz	300		12.16	+480	6.40	-345.2	-0.48	160.2	- can not decrease pump w/o stopping Flow
Stop to Change DO membrane.											
Change DO membrane - Still Reading neg. DO - Probe may be damaged											
1040	17.30	100 Hz	350		13.03	+473	6.55	-423.2	-2.70	2.48	
1045	17.30	100 Hz	350		13.06	~~+423.30~~ 477	6.56	-423.4	-3.10	5.95	
1050	17.30	100 Hz	375		13.23	477	6.58	-423.6	-3.74	6.35	
1055	- Change out USI - FOR A-USI Unit									~~4.96~~	041710a
1105	17.30	99 Hz	375		13.24	568	6.59	-243.8	1.39	4.96	
1110	17.30	99 Hz	375		13.28	527	6.66	-249.0	2.17	4.44	
1115	17.30	99 Hz	375		13.23	524	6.67	-253.3	2.47	4.39	
1120	17.30	99 Hz	375		13.31	517	6.67	-244.8	2.42	4.29	
1125	17.30	99 Hz	375	~20	13.30	511	6.67	-241.7	2.40	4.23	
1128	Stop Purging										
1130	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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF02-0014-032702

Tetra Tech NUS Job No./PMS N4123-0324
QC: Duplicate collected: IPGW-DP01-032702 (if applicable)

Sample Method: low Flow
Depth Sampled: 14 Feet* Screened Interval Depth 5-15 feet
Sample Date & Time: 3 / 27 / 02 1010 hours 1015 /Dup
Sampler(s): Brian Fennelly
Data Recorded By: Brian Fennelly Signature: [signature]
Notes:
* Bgs
stickup = 3.30
MP = TPVC

H&S Survey Meter ____ PPM Field Instrument Group A/(B)/C/D
Pre-pump insertion WL 9.45 ft Post - pump insertion WL NA ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOA	1291020				
TM	010179				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0830	9.45		400								
0835	10.07		140		12.01	1396	6.10	-372	3.99	85	
0840	10.05		140		12.00	1397	6.10	-369	3.35	72	
0845	10.05		140		12.03	1438	6.11	-372	1.17	40	
0855	10.05		140		11.93	1440	6.11	-372	0.73	39	
0900	9.61		175		11.79	1446	6.11	-373	0.74	31	
0905	9.87		150		11.58	1444	6.11	-372	0.84	35	
0910	10.01*		150		12.12	1443	6.12	-372	0.76	29	
0915	10.16		150		12.41	1440	6.13	-370	0.64	27	
0920	10.20		150		12.39	1430	6.13	-370	0.60	23	
0925	10.24		150		12.54	1428	6.14	-368	0.72	15	
0930	10.25		150		12.63	1428	6.14	-368	0.66	10	
0935	10.25		150		12.61	1422	6.14	-367	0.66	9.5	
0940	10.25		150		12.62	1414	6.15	-366	0.72	7.3	
0945	10.25		150		12.68	1406	6.15	-365	0.74	6.0	
0950	10.25		150		12.69	1404	6.15	-365	0.71	5.5	

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).

*pump set on lowest setting

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF02-0014-032702

Tetra Tech NUS Job No./PMS N4123-0324
QC: IPGW-0P01-032702 (If applicable)

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	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
0955	10.25		150		12.58	1392	6.17	-365	0.71	4.51	
1000	10.25		150		12.62	1385	6.16	-364	0.71	4.47	
1005	10.25		150		12.61	1387	6.16	-365	0.73	4.44	
1010	Stop purging/		Start purging ≈4gal								

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF02-0032 -032702

Tetra Tech NUS Job No./PMS N4123-0324
QC: NA (If applicable)

Sample Method: DPT / peristaltic pump (water bo sampler)
Depth Sampled: 32 Feet / Screened Interval Depth _____ feet
Sample Date & Time: 3/27/02 0935 hours _____ /Dup
Sampler(s): K.O'Neill / Brian Fennelly
Data Recorded By: Kevin O'Neill Signature: [signature]
Notes: start purge at 0738.
Finished sampling at 1045.

H&S Survey Meter N/A PPM
Pre-pump insertion WL N/A ft
Field Instrument Group A/B/C/D
Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOA					
metals					

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0851			7		8.90	1198	~~8~~ 6.67	-95.1	16.66	10.8	
0910			7		8.49	1210	6.70	-109.7	16.59	8.81	
0915			8		8.42	1210	6.72	-112.0	16.55	8.07	
0920			8		8.42	1214	6.73	-115.6	18.77	7.60	
0926			8		8.40	1216	6.74	-118.9	18.75	6.99	
0934			8		8.43	1216	6.74	-120.6	18.87	7.19	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF02-0075-032602

Tetra Tech NUS Job No./PMS N4123-0324
QC: _____ (If applicable)

Sample Method: DPT / peristaltic pump
Depth Sampled: 75 Feet Screened Interval Depth 75 feet
Sample Date & Time: 3/26/02 1715 hours _____ /Dup
Sampler(s): K. O'Neill
Data Recorded By: Kevin O'Neill Signature: _____
Notes: Purge start YSI flow thru cell hook up at 1445
Sample complete at 1955 hrs

H&S Survey Meter N/A PPM Field Instrument Group A/B/C/D
Pre-pump insertion WL N/A ft Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOA	3				
metals	1				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate cc/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1548	~6.6	* drained cell + replaced	5		9.81	1123	6.95	173.8	19.58	27.6	
1620 *					9.79	1148	7.10	16.3	12.63	28.4	
1633					9.42	1146	7.10	9.6	12.11	28.9	
1646			5		8.99	1146	7.12	24.9	11.93	30.4	
1705					8.	1149	7.13	20.3	12.20	29.8	
	1715	started sampling									
		It takes 1 3-5 minutes to fill turbidity vial									

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).

* made minature flow thru cell

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW - AF03-0018-02 2202

Tetra Tech NUS Job No./PMS N4123-0324
QC: NA (If applicable)

Sample Method: Low Flow
Depth Sampled: 18 Feet Screened Interval Depth 10-20 feet
Sample Date & Time: 2/22/02 1245 hours NA /Dup
Sampler(s): J. Danieli, C. Sanchez, J. Lambert
Data Recorded By: J. Danieli Signature: J. Danieli
Notes: MP = top of PVC = TPVC = 0.25 ft below Ground Surface = bgs

H&S Survey Meter NA PPM Field Instrument Group A/B/C/D
Pre-pump insertion WL ~~NA~~ ft Post - pump insertion WL ft
11.5 ft ~~bgs~~ TPVC 11.6 FT TPVC

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCs					
Metals					

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
		NA									
1107	11.6		250		12.46	1335	6.14 ~~4.91~~	-195.7	4.70	11.4	
1110	11.6		300		12.49	1349	6.12	-216.9	5.25	10.89	
1115	11.6		250		12.33	1259	6.11	-385.5	6.19	7.44	
1120	11.6		200		12.32	1360	6.10	-425.0	5.63	6.95	
1125	11.6		200		12.27	1370	6.09	-408.8	6.76	6.45	
1130	11.6		200		12.36	1370	6.09	-386.5	6.00	6.36	
1135	11.6		200		12.41	1376	6.09	-436.9	6.39	6.09	
1140	11.6		200		12.43	1379	6.09	-412.5	6.52	4.61	
1145	11.6		200		12.40	1383	6.08	-449.3	6.22	5.13	
1150	11.6		200		12.47	1384	6.08	-356.8	6.29	4.60	
1155	11.6		200		12.54	1380	6.07	-418.5	6.82	4.40	
1200	11.6		210		12.48	1381	6.07	-423.0	6.69	4.74	
1205	11.6		200		12.61	1377	6.08	-323.2	6.61	4.76	
1210	11.6		200		12.66	1382	6.07	-350.2	6.40	3.43	
1215	11.6		200		12.55	1385	6.06	-456	6.51	4.6	
1220	11.6		200		12.63	1385	6.06	-458	6.52	4.3	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF03-0018-022202

Tetra Tech NUS Job No./PMS N4123-0324
QC: N/A (If applicable)

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
1225	11.6		200		12.68	1385	6.06	-415	6.09	4.2	
1230	11.6		200		12.72	1384	6.06	-450	5.88	4.5	
1235	11.6		200		12.73	1385	6.06	-455	5.95	4.1	
1240	11.6		200	5.0	12.77	1386	6.05	-460	6.01	4.5	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF03-0037-022502

Tetra Tech NUS Job No./PMS N4123-0324
QC: NA (If applicable) Replace original deeper intermediate sample

Sample Method: DPT / peristaltic pump
Depth Sampled: 36.5 Feet bgs Screened Interval Depth 36.5 feet bgs
Sample Date & Time: 2 / 25 / 02 1015 hours NA /Dup
Sampler(s): K. O'Neill
Data Recorded By: same Signature: Kim O'Neill
Notes:
purge start at 0915
* - Based on Profiling - water level 11.9 ft bgs
bgs = below ground surface

H&S Survey Meter N/R PPM
Pre-pump insertion WL N/A ft
Field Instrument Group A/B/C/D
Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOC	1291020				
Total metals	010043				

Clock Time 24hr	Water Depth below MP ft *	Pump Dial 1 NA	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0945	~11.9		21		11.49	1075	5.89	163.7	7.16	3.34	
0950			21		11.32	1079	5.89	149.0	7.14	2.80	
0955			21		11.19	1083	5.89	140.1	7.13	2.24	
1000			21		11.37	1085	5.89	127.6	7.10	3.90	
1005			21		11.47	1086	5.89	120.9	7.12	3.80	
1010			21		11.40	1088	5.89	117.1	7.05	3.76	
1013			Stop Purging								
1015			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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AF03-0049-022202

Tetra Tech NUS Job No./PMS N4123-0324
QC: NA (If applicable)

Sample Method: Water 100 Sampler- Discrete-Low Flow
Depth Sampled: 49 Feet Screened Interval Depth N/A feet
Sample Date & Time: 2/22/02 0945 hours NA/Dup
Sampler(s): J. Danieli, J. Lambert
Data Recorded By: J. Lambert Signature: J. Lambert
Notes: Water Appears to be @ 11.91' bgs.
1050- Sampling Complete.

H&S Survey Meter NA PPM Field Instrument Group A/B/C/D
Pre-pump insertion WL NA ft Post - pump insertion WL NA ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCs	~~10~~ 1291020				
Total Metals	010276				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0800	Begin	purge									
0915			8		13.58	2311	6.28	-29.4	15.42	4.59	
0920			8		13.67	2301	6.30	-32.6	16.00	3.01	
0925			6		13.52	2302	6.32	-34.2	17.08	2.89	
0930			6		13.44	2298	6.33	-35.8	20.07	2.21	
0935			10		13.40	2295	6.32	-36.8	20.17	2.16	
0940			11	1.0	13.29	2294	6.32	-36.5	19.56	2.15	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IDGW-AF03-0061-022502

Tetra Tech NUS Job No./PMS N4123-0324
QC: DP07 - Total metals (If applicable) DP09 - VOCS

Sample Method: DPT / Peristaltic pump
Depth Sampled: 61 Feet Screened Interval Depth 61 feet bgs
Sample Date & Time: 2/25/02 0910 hours 0945/Dup
Sampler(s): KO'Neill
Data Recorded By: KO Signature: [signature]
Notes:
purge start 0725 YSI hookup 0800

H&S Survey Meter D N/A PPM Field Instrument Group A/B/C/D
Pre-pump insertion WL N/A ft Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCS	1291020				
Total metals	010300				

Clock Time 24hr	Water Depth below MP ft	~~Pump Dial 1~~ KO 2-25-02	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0824 cell full	~11.9		~20	Flow cell full	11.10	2641	6.32	318.5	8.19	43.0	
0834					10.99	2638	6.29	310.1	8.00	32.5	
0839			20		11.21	2628	6.27	300.6	7.94	16.60	
0845				Day warming	11.26	2624	6.26	296.0	7.96	12.53	
0850					11.36	2623	6.26	289.1	~~7.97~~	~~10.02~~	10.02 KO 2-25-02
0855					11.54	2614	6.26	283.5	8.06	8.04	
0900					11.58	2614	6.25	278.6	7.96	7.64	
0905					11.61	2614	6.24	269.8	7.94	7.53	
0910					11.68	2620	6.24	267.8	7.98	7.44	
		Sample AT 0910 Hrs									

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AG01-0012-012202

Tetra Tech NUS Job No./PMS N4123-0324
QC: _____ (If applicable)

Sample Method: Peristaltic pump w/ YSI ~~0012~~ BF 1/22/02
~~IPGW-AG01-0012-012202~~
Depth Sampled: 12 Feet Screened Interval Depth 7-17 feet bgs
Sample Date & Time: 1 / 22 / 02 1405 hours _____ /Dup
Sampler(s): B. Fennelly
Data Recorded By: B. Fennelly Signature: [signature]
Notes: bgs = below ground surface
MP = Top of PVC (TPVC) - stickup = 3.01 above ground surface.

H&S Survey Meter NA PPM
Pre-pump insertion WL _____ ft
Field Instrument Group A/B/C/D
Post - pump insertion WL _____ ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCs					
metals					

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1255	10.90		Start					54.7			
1340	10.90				10.10	444	6.17	~~0.317~~ BF 1/22/02	9.80	4.97	YSI batteries
1345	10.90				10.06	445	6.16	54.6	9.66	4.51	replaced
1350	10.90				10.36	444	6.15	54.2	9.65	3.77	
1355	10.88				10.38	447	6.15	56.4	9.63	3.62	
1400	10.89				10.32	447	6.15	56.5	9.65	3.51	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW-FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW- AG01 -0055-012102

Tetra Tech NUS Job No./PMS 4123-0324
QC: _____ (If applicable)

Sample Method/Pump Type peristaltic pump/s/s + silicon tubing
Depth of Pump Insertion from MP: 55 Feet (bgs)

Sample Date & Time: 1/21/2002 1357 hours _____/Dup

Sampler(s): K O'Neill

Data Recorded By (Signature): Kevin O'Neill

Notes: Purge start @ 1240 hrs

H&S Survey Meter _____ PPM
Pre-pump insertion WL N/A ft
Field Instrument Group A/B/C/D
Post - pump insertion WL N/A ft

Analytical Parameters Collected (check appropriate):
VOA 3 3-40mL VOA vials w/HCl
SVOC 0 -One liter amber glass
Metals 1 1-1Liter poly (HNO3 less than 2 pH)
Other _____

Clock Time 24hr	Water Depth below MP ft		Purge Rate ML/min	NOTES	Temp °C	Spec. Cond. 2 uS/cm	DO mg/L	pH	ORP/Eh3 Mv	Turbidity NTU	Comments
PURGE	START:	1240	40								
1320	NR		40		14.24	478	12.52	6.39	296.0	7.50	
1325					14.09	467	12.82	6.38	288.6	4.51	
1330			40		13.74	459	13.02	6.37	282.8	3.33	
1335			35		13.86	451	13.26	6.36	275.8	2.72	
1340			25	heat block →	14.21	447	13.21	6.35	269.4	2.62	
1345			25		14.48	445	13.16	6.34	261.8	2.23	
1350					14.61	442	13.19	6.34	251.2	2.34	
1355					14.57	442	13.20	6.35	246.0	2.46	
1357	Sample start										

1
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW-FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW- AG01-0071-013102

Tetra Tech NUS Job No./PMS 4123-0324
QC: _____ (If applicable)

Sample Method/Pump Type Peristaltic pump | DPT
Depth of Pump Insertion from MP: 71 Feet

Sample Date & Time: 1 / 31 /2002 1430 hours _____/Dup

Sampler(s): B. Fennelly ; K. O'Neil

Data Recorded By (Signature): [signature]

Notes: Purge start 1000 hrs - opaque

H&S Survey Meter _____ PPM
Pre-pump insertion WL _____ ft

Field Instrument Group A/B/C/D
Post - pump insertion WL _____ ft

Analytical Parameters Collected (check appropriate):
VOA _____ 3-40mL VOA vials w/HCl
SVOC _____ -One liter amber glass
Metals _____ 1-1Liter poly (HNO3 less than 2 pH)
Other _____

Clock Time 24hr	Water Depth below MP ft		Purge Rate ML/min	NOTES	Temp °C	Spec. Cond. 2 uS/cm	DO mg/L	pH	ORP/Eh3 Mv	Turbidity NTU	Comments
PURGE	START:	1000	14		8.84	289	6.78	6.31	-114.0		
1100	~11		14	inside warm truck →	10.43	286	6.73	6.35	-120.1	1043	
1127	NA		14		11.20	289	7.00	6.38	-124.6	502	
1143			14		12.90	290	7.56	6.40	-126.0	232	
1200			14		1408	294	7.32	6.39	-126.6	147	
1205			14		14.27	372	7.27	6.39	-125.7	189.6	
1210			14		14.74	369	7.23	6.38	-125.9	383	
1220			12		14.99	371	6.94	6.38	-126.5	198	
1230			12		15.01	371	6.93	6.39	-125.8	507	
1240			13		15.14	369	6.75	6.38	-125.1	950	
1250			13		15.00	372	6.84	6.37	-124.1	1088	
1300			13		15.85	365	7.18	6.36	-121.1	907	
1310			13		15.98	365	7.23	6.36	-121.1	1024	
1320			12		17.23	364	7.00	6.37	-121.1	463	
1330			11		16.86	367	7.17	6.37	-122.7	145	
1340			11		17.18	367	7.23	6.38	-122.4	94 ~~104.3~~	BF 1/31/02

1
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW- AG01-0071-013102

Tetra Tech NUS Job No./PMS N4123-0324
QC: _____ (If applicable)

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	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
1350	NA	NA	11		17.73	365	6.39	-122.6	7.28	57.6	
1355					17.69	367	6.36	-123.8	7.30	40.3	
1400					17.71	367	6.38	-125.3	7.30	35.8	
1405					17.93	364	6.36	-124.0	7.34	35.1	
1410					17.95	366	6.37	-123.5	7.34	23.5	
1415					18.10	365	6.38	-125.0	7.37	22.7	
1420					18.29	366	6.35	-123.7	7.35	21.9	
1425					18.41	365	6.35	-124.1	7.34	21.5	
1430					18.38	366	6.36	-124.5	7.37	22.3	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW-FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW- AG01 - Deep - 013002 → 0076
NO SAMPLE

Tetra Tech NUS Job No./PMS 4123-0324
QC: NO SAMPLE Collected (If applicable)

Sample Method/Pump Type peristaltic pump / DPT
Depth of Pump Insertion from MP: _____ Feet

H&S Survey Meter _____ PPM
Pre-pump insertion WL _____ ft

Field Instrument Group A/B/C/D
Post - pump insertion WL _____ ft

Sample Date & Time: 1/30/2002 1025 hours _____/Dup

Sampler(s): ND Sample

Data Recorded By (Signature): Kevin O'Neil

Notes: Refusal at 75.5' bgs

Analytical Parameters Collected (check appropriate):
VOA ____ 3-40mL VOA vials w/HCl
SVOC ____ -One liter amber glass
Metals ____ 1-1Liter poly (HNO3 less than 2 pH)
Other ____
____

Clock Time 24hr	Water Depth below MP ft		Purge Rate ML/min	NOTES	Temp °C	Spec. Cond. 2 uS/cm	DO mg/L	pH	ORP/Eh3 Mv	Turbidity NTU	Comments
PURGE	START:	1025	20	CALLED Office told to move ahead and try again							
		rock expected at deeper depth per G Bullard									
		1035 Stop									

1
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AG02-0013-022102

Tetra Tech NUS Job No./PMS N4123-0324
QC: VOA, TM MS/MSD (If applicable)

Sample Method: Low Flow
Depth Sampled: 13 Feet bgs Screened Interval Depth 5-15 feet bgs
Sample Date & Time: 2 / 21 / 02 1335 hours ____/Dup
Sampler(s): J. Danieli
Data Recorded By: ____ Signature: ____
Notes:
mp = below top of PVC = TPVC - 0.25ft below Ground Surface
bgs = below ground surface

H&S Survey Meter NA PPM
Pre-pump insertion WL ~~5.19~~ 5.83 ft TPVC
Field Instrument Group A/B/C/D
Post - pump insertion WL 5.83 ft TPVC

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCs	1291020				
Total Metals	009946				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1250	5.83		350		11.53	578	6.54	-82	1.1	60	orange
1255	5.83		350		11.41	578	6.40	-192	1.0	58	"
1300	5.85		350		11.40	579	6.35	-192	1.0	32	Clear
1305	6.01		350		11.41	580	6.29	-222	1.0	23	
1310	5.84		200		11.45	581	6.25	-228	1.0	14	
1315	5.83		200		11.56	583	6.21	-214	1.1	6.8	
1320	5.83		200		11.56	584	6.19	-192	1.2	6.1	
1325	5.83		200		11.55	585	6.19	-197	1.2	5.9	
1330	5.83		200	≈3gal	11.56	586	6.19	-201	1.2	5.7	Clear
1335	Stop	Purging	Start	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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-A602-0039 -022102

Tetra Tech NUS Job No./PMS N4123-0324
QC: NA (If applicable)

Sample Method: water 100 sampler - discrete low flow sampling
Depth Sampled: 39 Feet bgs Screened Interval Depth 39 feet bgs
Sample Date & Time: 2 / 21 / 02 1020 hours NA /Dup
Sampler(s): J. Lambert
Data Recorded By: J. Lambert Signature: J. Lambert
Notes: water appears to be ~ 5.9' bgs - according to profiling

H&S Survey Meter NA PPM Field Instrument Group A/B/C/D
Pre-pump insertion WL NA ft Post - pump insertion WL NA ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCs	1291020				
Total Metals	1218030				

Clock Time 24hr	Water Depth below MP ft N/A	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0855 - Begin purging											
0935			22		15.38	428	6.10	55.1	8.87	4.77	
0940			23		15.47	425	6.09	49.0	8.83	3.16	
0945			23		15.53	424	6.08	40.0	8.85	2.04	
0950			23		15.60	423	6.09	34.9	8.87	1.76	
0955			24		15.69	422	6.08	28.9	8.87	1.39	
1000			23		15.78	421	6.08	25.8	8.88	1.71	
1005			24		15.88	421	6.08	23.1	8.88	1.51	
1010			23		15.96	420	6.08	20.1	8.87	1.49	
1015			23	1.0	16.03	420	6.08	19.3	8.86	1.38	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AG02-0078-022102

Tetra Tech NUS Job No./PMS N4123-0324
QC: NA (If applicable)

Sample Method: Water100 Sampler - Discrete Low Flow
Depth Sampled: 78 Feet bgs Screened Interval Depth 78 feet bgs
Sample Date & Time: 2/21/02 1255 hours NA /Dup
Sampler(s): J. Lambert
Data Recorded By: J. Lambert Signature: J. Lambert
Notes: Water level appears to be at ~ 5.9 ft bgs
- parameters begun when flow-through cell filled

H&S Survey Meter NA PPM
Pre-pump insertion WL NA ft
Field Instrument Group A/B/C/D
Post - pump insertion WL NA ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
VOCs	1291020				
Total metals	010261				

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1140	Start Purging	N/A	N/A								
1220			22		16.76	319	6.37	-104.2	9.48	33.0	
1225			21		16.78	319	6.37	-105.6	9.16	33.8	
1230			21		16.82	318	6.35	-107.0	9.15	27.4	
1235			22		16.85	317	6.34	-107.6	9.14	22.6	
1240			22		16.90	316	6.34	-108.0	9.12	17.1	
1245			22		16.94	315	6.35	-108.2	9.11	17.3	
1250			22	0.5	16.99	314	6.33	-108.4	9.10	15.7	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IRGW-AG03-0015-013002

Tetra Tech NUS Job No./PMS N4123-0324
QC: collected DP01 for metals at this location. (Duplicate).
applicable)

Sample Method: Low-Flow w/ Peristaltic + YSI
Depth Sampled: 15 Feet* Screened Interval Depth 7-17 feet bgs
Sample Date & Time: 1 / 30 / 02 1230 hours 1235 /Dup
Sampler(s): B. Ferrelly
Data Recorded By: B. Ferrelly Signature: [signature]
Notes: * bgs. bgs = below Ground surface
MP = Top of PVC (TPVC) = 0.1 ft bgs

H&S Survey Meter _____ PPM Field Instrument Group A/B/C/D
Pre-pump insertion WL _____ ft Post - pump insertion WL _____ ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Metals					
VOCs					

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
0955	5.19	NA	start								
1005	5.19		140		10.94	1293	6.49	-158.6	1.54	813	
1015	5.19		140		11.86	1242	6.44	-207.8	0.90	622	
1025	5.19		140		12.17	1225	6.49	-252.6	0.74	453	
1035	5.19		140		12.09	1217	6.51	-232.4	0.81	178	
1040	5.19		140		12.15	1204	6.51	-245.6	0.74	114	
1045	5.19		140		12.14	1205	6.51	-227.9	0.83	119	
1050	5.19		140		12.10	1195	6.51	-230.5	0.76	109	
1055	5.19		140		12.07	1172	6.52	-225.5	0.80	105	
1100	5.19		140		11.64	1174	6.51	-222.4	0.72	104	
1105	5.19		140		10.98	1197	6.51	-205.4	0.74	111	
1110	5.19		140		11.86	1218	6.51	-203.0	0.77	59	
1115	5.19		140		11.98	1206	6.52	-174.0	0.76	32	
1120	5.19		140		12.12	1185	6.52	-188.3	0.69	27.6	
1125	5.19		140		12.05	1182	6.52	-181.5	0.71	22.9	
1130	5.19		140		12.01	1160	6.52	-183.5	0.72	30.5	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AG03-0015-013002

Tetra Tech NUS Job No./PMS N4123-0324
QC: see p. 1 (If applicable)

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	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
1135	5.19	NA	140		11.63	1165	6.52	-176.6	0.73	29.2	
1140	5.19		140		11.59	1169	6.52	-163.9	1.07	29.6	
1145	5.19		140		11.17	1177	6.51	-168.7	0.78	27.4	
1150	5.19		140		11.45	1191	6.51	-170.5	0.71	18.0	
1155	5.19		140		11.52	1181	6.51	-162.3	0.73	16.2	
1200	5.19		140		11.99	1195	6.51	-157.2	0.72	10.6	
1205	5.19		140		12.01	1196	6.51	-158.3	0.68	6.60	
1210	5.19		140		12.16	1188	6.51	-150.5	0.71	5.47	
1215	5.19		140		11.99	1190	6.51	-144.7	0.75	3.36	
1220	5.19		140		12.11	1182	6.51	-140.4	0.72	2.55	
1225	5.19		140		12.14	1183	6.51	-140.4	0.72	2.37	

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).

Tt NUS Form 0009

TETRA TECH NUS, INC. DUPLICATE COLLECTED

SAMPLE LOG SHEET - "LOW-FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW- AG03-0079-020802
IPGW - DP03 - 020802

Tetra Tech NUS Job No./PMS 4123-0324
QC: DUPLICATE (If applicable)

Sample Method/Pump Type DPT / peristaltic pump
Depth of Pump Insertion from MP: 78.5 Feet

Sample Date & Time: 2 / 8 /2002 0920 Hours 1130 /Dup

Sampler(s): K.O'Neill

Data Recorded By (Signature): Kevin O'Neill

H&S Survey Meter N/A PPM
Field Instrument Group A/B/C/D
Pre-pump insertion WL N/A ft
Post - pump insertion WL N/A ft

Analytical Parameters Collected (check appropriate):
VOA 3 3-40mL VOA vials w/HCl
SVOC 0 -One liter amber glass
Metals 1 1-1Liter poly (HNO3 less than 2 pH)
Other

Notes: Started purging at 0737 Stopped sampling 1152 hrs

Clock Time 24hr	Water Depth below MP ft		Purge Rate ML/min	NOTES	Temp °C	Spec. Cond. 2 uS/cm	DO mg/L	pH	ORP/Eh3 Mv	Turbidity NTU	Comments
PURGE	START:	0737 hours (10)			~~10.87~~	~~262~~	~~24.63~~	~~4.89~~	~~158.5~~	~~10~~ 2-8-02	
0835	241		10	clear	10.87	262	24.63	4.89	158.5	5.66	
0855	↓		11		10.50	218	14.41	6.21	-49.5	4.13	
0900			11	SUN IS	10.48	223	14.20	6.29	-60.0	4.18	
0906			11	WARMING	10.49	227	14.13	6.33	-65.3	3.55	
0917				VAN	10.59	235	14.06	6.35	-72.5	~~3.35~~	3.35 10 2-8-02
0918			11		10.65	241	14.00	6.38	-75.8	3.62	
0920	SAMPLE START										
1152	complete										

1
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).

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52
37
25

4'25" actual

DUPLICATE DP03-020802

4.5 hours sample time

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AG03-0053-012902

Tetra Tech NUS Job No./PMS N4123-0324
QC: N/A (If applicable)

Sample Method: low-flow
Depth Sampled: 53 Feet bgs Screened Interval Depth N/A feet
Sample Date & Time: 1/29/02 1345 hours N/A /Dup
Sampler(s): J. Lambert
Data Recorded By: J. Lambert Signature: J. Lambert
Notes: bgs = below Ground Surface

H&S Survey Meter N/A PPM Field Instrument Group (A)/B/C/D
Pre-pump insertion WL 7.3 ft Post - pump insertion WL N/A ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
metals	1218030				
VOAs	1291020				

Clock Time 24hr	Water Depth below MP ft N/A	Pump Dial 1 N/A	Purge Rate ml/min	Cum. Volume Purged ~~gallons~~ L	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1235				Begin purge							
1315			18		20.51	220	6.39	-98.0	12.31	16.7	*
1320			18		20.48	225	6.32	-96.4	12.51	4.55	
1325			18		20.46	228	6.31	-96.9	12.38	4.03	
1330			20		20.39	229	6.29	-99.3	12.16	3.07	
1335			20		20.39	232	6.32	-100.2	11.87	2.91	
1340			20	2	20.32	232	6.33	-100.4	11.80	2.82	
1345				Begin sampling							

1. Pump dial setting (for example: hertz, cycle/min, etc.) * water has yellow tinge
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).

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TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW-FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW- AG03 - DEEP - 013102 ← 83.5 → 88.5'

Tetra Tech NUS Job No./PMS 4123-0324
QC: NO SAMPLE (If applicable)

Sample Method/Pump Type DPT / peristaltic pump
Depth of Pump Insertion from MP: 83.5 → 88.5 Feet

Sample Date & Time: 1 / 31 /2002 _____ hours _____ /Dup

Sampler(s): NO SAMPLE

Data Recorded By (Signature): Kevin O Neill

Notes:

H&S Survey Meter _____ PPM
Pre-pump insertion WL _____ ft

Field Instrument Group A/B/C/D
Post - pump insertion WL _____ ft

Analytical Parameters Collected (check appropriate):
VOA _____ 3-40mL VOA vials w/HCl
SVOC _____ -One liter amber glass
Metals _____ 1-1Liter poly (HNO3 less than 2 pH)
Other _____
_____

Clock Time 24hr	Water Depth below MP ft	Depth	Purge Rate ML/min	NOTES	Temp °C	Spec. Cond. 2 uS/cm	DO mg/L	pH	ORP/Eh3 Mv	Turbidity NTU	Comments
PURGE	START:	1400									
1400		83.5	<1 ml/min	(stopped)							
		↓									
1455		88.5 *	no flow	(refusal)		~ 1 hour sample/purge time trying to achieve flow					

1
2. Siemens per cm (same as umhos/cm) at 25 °C.
3. Oxidation reduction potential (stand in for Eh).

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* drove from 83.5 to 88.5' bgs and had no flow over this depth range. ~~Noted silt/sand in v.~~ KO 1/31/02

CLICK TO CONTINUE

TETRA TECH NUS, INC.

SAMPLE LOG SHEET - "LOW FLOW" GROUNDWATER

Site Name: INDUSTRI-PLEX
Sample ID: IPGW-AP01-0013-012402

Tetra Tech NUS Job No./PMS N4123-0324
QC: NA (If applicable)

Sample Method: Peristaltic w/ YSI
Depth Sampled: 13 Feet* Screened Interval Depth 8.5-18.5 feet bgs
Sample Date & Time: 1/24/02 1350 hours NA /Dup
Sampler(s): B. Fennelly
Data Recorded By: B. Fennelly Signature: [signature]
Notes: * bgs
MP = Top of PVC (TPVC)
PVC = 0.2' below ground surface (bgs)

H&S Survey Meter NA PPM Field Instrument Group A/B/C/D
Pre-pump insertion WL _____ ft Post - pump insertion WL _____ ft

Analysis	Bottle Lot#	Analysis	Bottle Lot #	Analysis	Bottle Lot #
Metals					
VOAs					

Clock Time 24hr	Water Depth below MP ft	Pump Dial 1	Purge Rate ml/min	Cum. Volume Purged gallons	Temp °C	Spec. Cond. 2 uS/cm	pH	ORP/Eh3 mv	DO mg/L	Turbidity NTU	Comments
1130	10.85	NA	start								
1135	11.95		155		12.61	939	5.40	-205.4	6.19	279	
1140	12.75		25		12.69	901	5.51	-161.2	6.60	213	see below

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).

Tt NUS Form 0009

* 1140 difficulty maintaining flow. water level dropped to sampling location. well pumped completely dry and allowed to recover. returned to well at 1350. water level at 11.9 ft. bgs.. collected sample.