

Sierra Pacific Data Report

Figures and Tables

Boring Logs

Received by Ecology June 20, 2005

TABLE 6

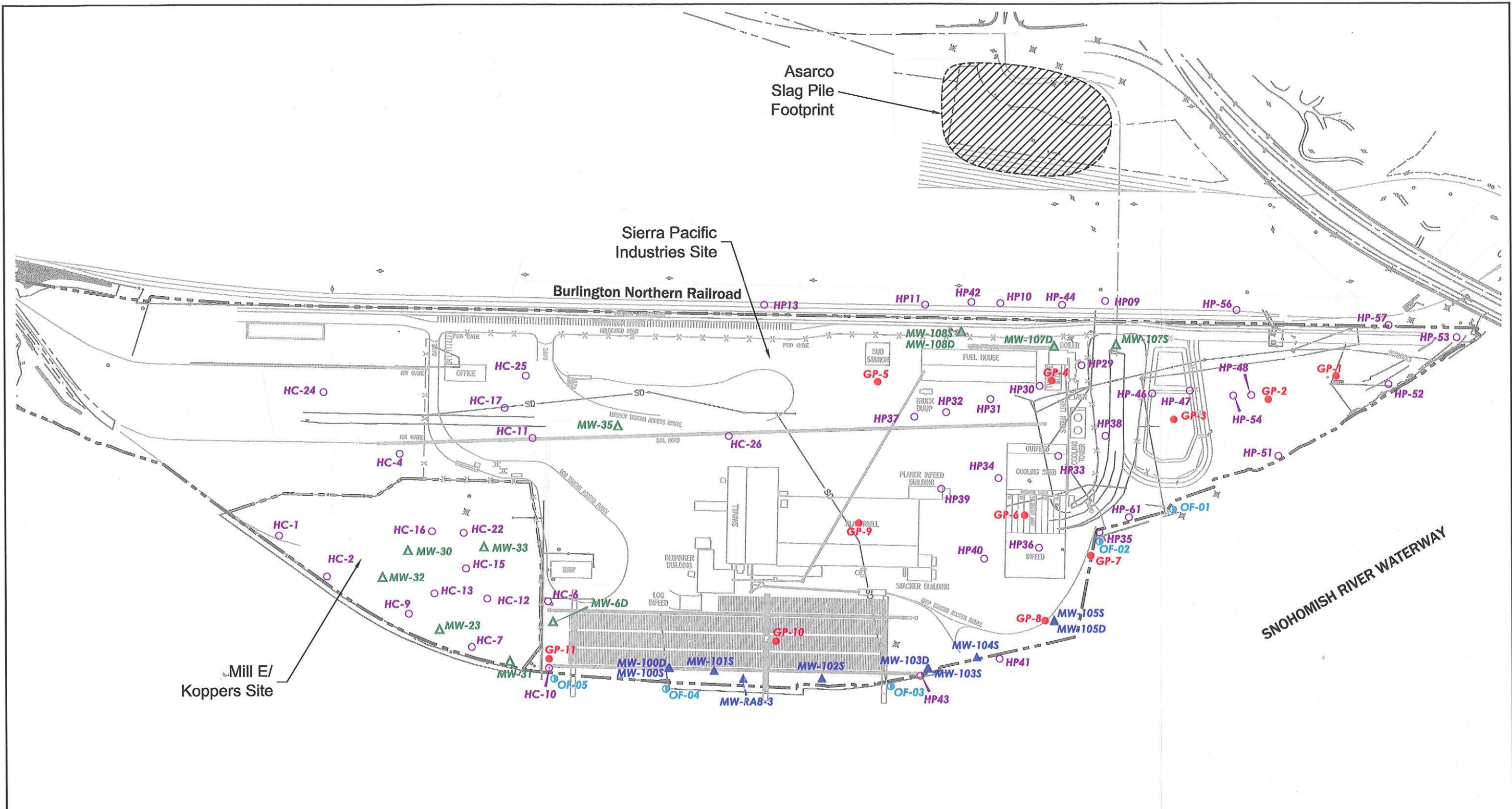
OUTFALL SEDIMENT ANALYTICAL RESULTS

Analytes	Sample ID Sample Date	OF-01 4/27/2005	OF-02 4/27/2005	OF-03 4/27/2005	OF-04 4/27/2005	OF-05 4/27/2005
Total Metals (mg/Kg)						
Arsenic		30	20	15	14	22
Cadmium		<0.4	<0.4	<0.3	<0.2	<0.3
Chromium		55	50	43.2	30.5	43.4
Copper		76.7	58.1	45.5	32.7	51.1
Lead		18	14	11	36	13
Zinc		95	90	71.6	57.6	73
Semivolatile Organics (mg/Kg-oc)						
Pentachlorophenol		<2.2	<2.7	<5.8	1.9J	<1.7
Naphthalene		0.77	0.71	1.6	<1.9	<3.4
Acenaphthylene		0.53	0.76	<1.2	2.1	<3.4
Acenaphthene		0.55	0.87	1.4	<1.9	<3.4
Fluorene		0.90	0.54	1.8	<1.9	<3.4
Phenanthrene		6.6	3.3	7.7	3.3	9.6
Anthracene		4.6	3.5	2.7	20J	3.4J
Fluoranthene		20	33	21	10	16
Pyrene		12	25	12	9.3	8.0
Benz(a)anthracene		5.3	9.2	7.1	4.7	4.4
Chrysene		13	21	11	6.0	6.5
Benzo(k)fluoranthene		12	33	5.9	3.0	6.2
Benzo(e)fluoranthene		8.8	21	6.5	4.0	5.5
Total Benzo(a)anthracenes		21	54	12	7.0	12
Benzo(a)pyrene		7.5	19	4.0	4.1	3.8
Indeno(1,2,3-c,d)pyrene		2.1	5.4	<1.2	<1.9	<3.4
Dibenzo(a,h)anthracene		0.55	2.2	<1.2	<1.9	<3.4
Benzo(g,h,i)perylene		2.1	5.4	<1.2	<1.9	<3.4
Total LPAHs		32	41	35	14	26
Total HPAHs		84	195	58	38	46
Dioxin (ng/kg)						
Total 2,3,7,8-TCDD		4.6	7.6	3.1	16	7.4
PCBs (mg/Kg-oc)						
Aroclor 1254		ND	0.35	ND	ND	ND
Other Aroclors		ND	ND	ND	ND	ND
Total Petroleum Hydrocarbons (mg/kg)						
Diesel Range		15	17	<8.6	8.9	<8.6
Oil Range		61	63	<17	39	<17
Conventional (percent)						
Total Organic Carbon		4.56	3.68	1.69	1.05	0.585

Notes

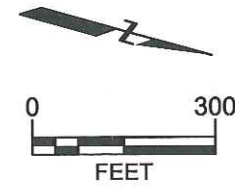
- < indicates analyte not detected above associated detection limit.
- J indicates estimated value.
- ND indicates individual PAH constituents or PCB Aroclors were not detected.


DWG NAME: G:\project\Clients\Geomatrix\SPI Everett\btst10360_001 (Fig).dwg
 DATE: 06/09/05 2:50pm



LEGEND

- GP-1 ● Geomatrix Geoprobe Location
- HP01 ○ Previous Historic Geoprobe Location
- MW-101S ▲ Current Monitoring Well Location
- MW-30 ▲ Abandoned Monitoring Well Location
- OF-01 ○ Outfall Water and Sediment Sample Location



PROPOSED DEVELOPMENT PLAN AND EXPLORATION LOCATIONS Sierra Pacific Industries Everett, Washington DRAFT		
 GEOMATRIX	Project No. 10360	Figure 1

DWG NAME: G:\project\Clients\Geomatrix\SPI Everett\btst0360_002 (Fig2).dwg
 DATE: 06/08/05 2:50pm

GP-5	
Sample Depth	4'-6'
Arsenic	6
Cadmium	<0.2
Chromium	28.2
Copper	20.1
Lead	5
Zinc	41.9

GP-4	
Sample Depth	2'-6'
Arsenic	40
Cadmium	<0.2
Chromium	30.5
Copper	28.5
Lead	52
Zinc	79
TPH-D	<6.2
TPH-O	<12

GP-1	
Sample Depth	1'-10'
Arsenic	31
Cadmium	<0.2
Chromium	28.8
Copper	24.3
Lead	36
Zinc	87.5

GP-2	
Sample Depth	1'-10'
Arsenic	26
Cadmium	<0.2
Chromium	29.3
Copper	23.2
Lead	12
Zinc	54.9

GP-3	
Sample Depth	2'-9'
Arsenic	10
Cadmium	0.3
Chromium	29
Copper	63.7
Lead	44
Zinc	83.5

GP-6	
Sample Depth	2'-6'
Arsenic	17
Cadmium	<0.3
Chromium	25.1
Copper	45.4
Lead	48
Zinc	86.7
Total PCBs	0.037
TPH-D	38
TPH-O	93

GP-7	
Sample Depth	4'-12'
Arsenic	7
Cadmium	<0.2
Chromium	31.2
Copper	42.8
Lead	37
Zinc	114
Total PCBs	0.047
TPH-D	80
TPH-O	590

GP-8	
Sample Depth	6'-11'
Arsenic	<6
Cadmium	<0.2
Chromium	21
Copper	16.5
Lead	4
Zinc	39.3
PAHs	ND
Total PCBs	ND
TPH-D	<5.9
TPH-O	12

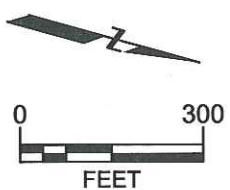
GP-9	
Sample Depth	5'-8'
Arsenic	22
Cadmium	<0.2
Chromium	28.6
Copper	24.8
Lead	5
Zinc	44.3

GP-10	
Sample Depth	5'-8'
Arsenic	16
Cadmium	<0.2
Chromium	25.3
Copper	23.1
Lead	10
Zinc	43.9
PCP	43

GP-11	
Sample Depth	4'-7'
Arsenic	51
Cadmium	<0.2
Chromium	27.8
Copper	21.1
Lead	22
Zinc	48.6
PCP	<0.042
PAHs	ND

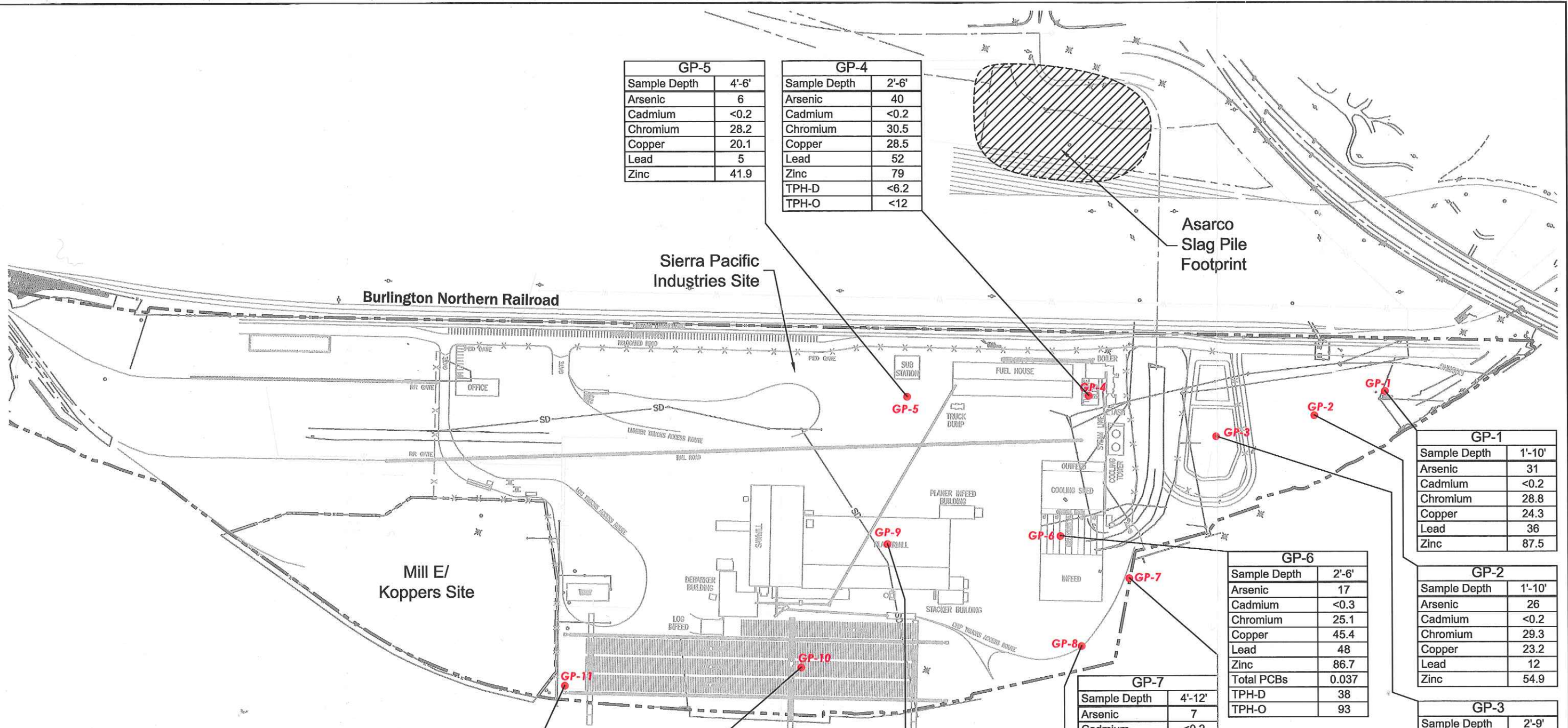
- Notes:**
1. Soil sampling conducted by Geomatrix in May, 2005.
 2. All concentrations are in mg/kg.
 3. ND - Individual PAHs or PCB Aroclors were not detected.
 4. < - Constituent not detected above indicated concentration.

LEGEND
 GP-1 ● Geomatrix Geoprobe Location

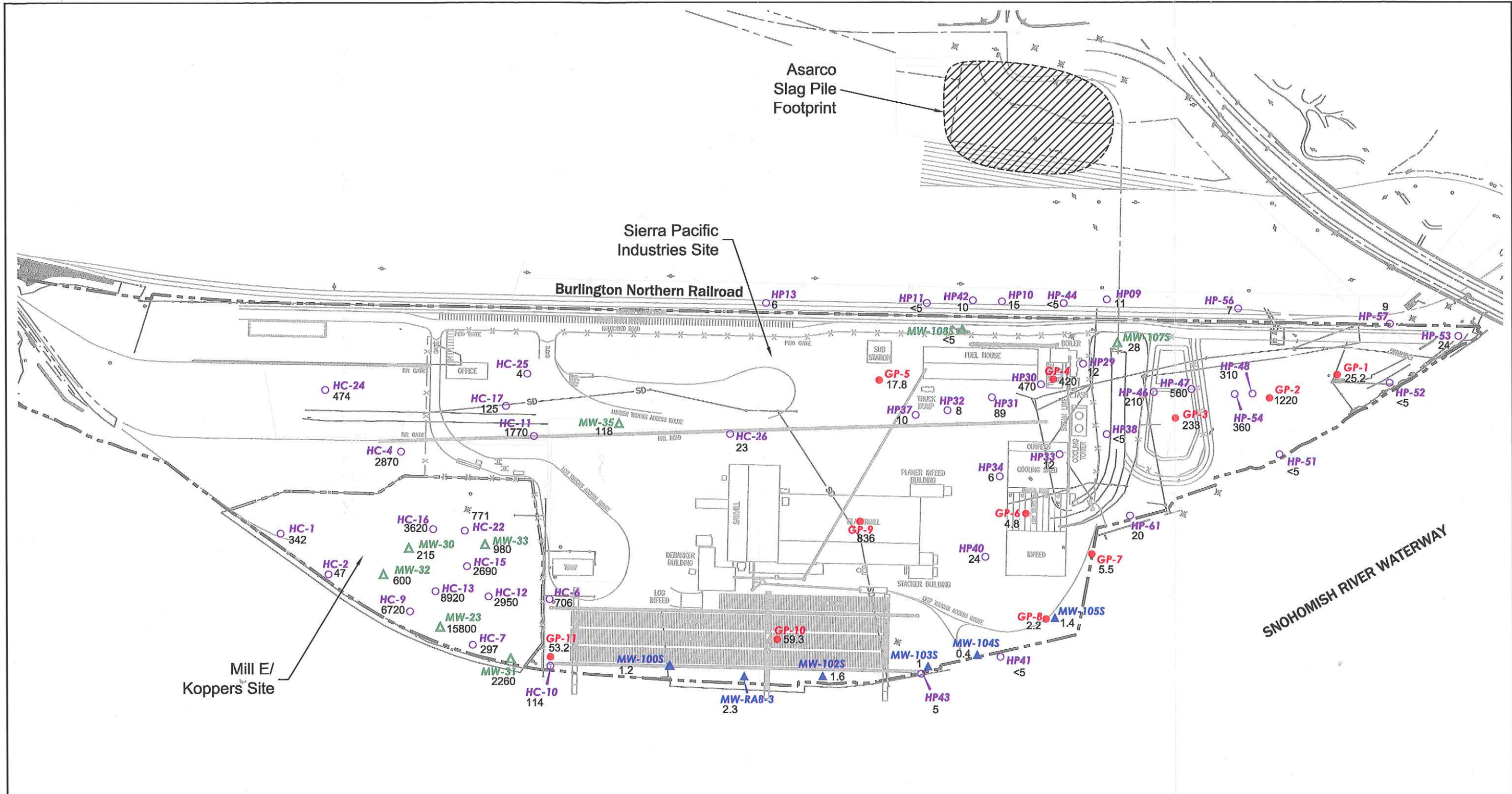


RECENT SOIL SAMPLE RESULTS
 Sierra Pacific Industries
 Everett, Washington
 DRAFT

	Project No. 10360	Figure 2
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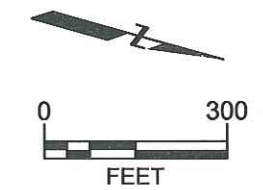
DWG NAME: G:\project\Clients\Geomatrix\SPI Everett\bt0360_003 (Fig3).dwg
 DATE: 06/08/05 2:50pm



- Notes:**
1. Groundwater sampling at current monitoring wells and Geomatrix geoprobe locations conducted by Geomatrix in May, 2005.
 2. All concentrations are in $\mu\text{g/L}$.
 3. Shallow samples were collected from the shallow unconfined aquifer at depths of approximately 5 to 10 feet.

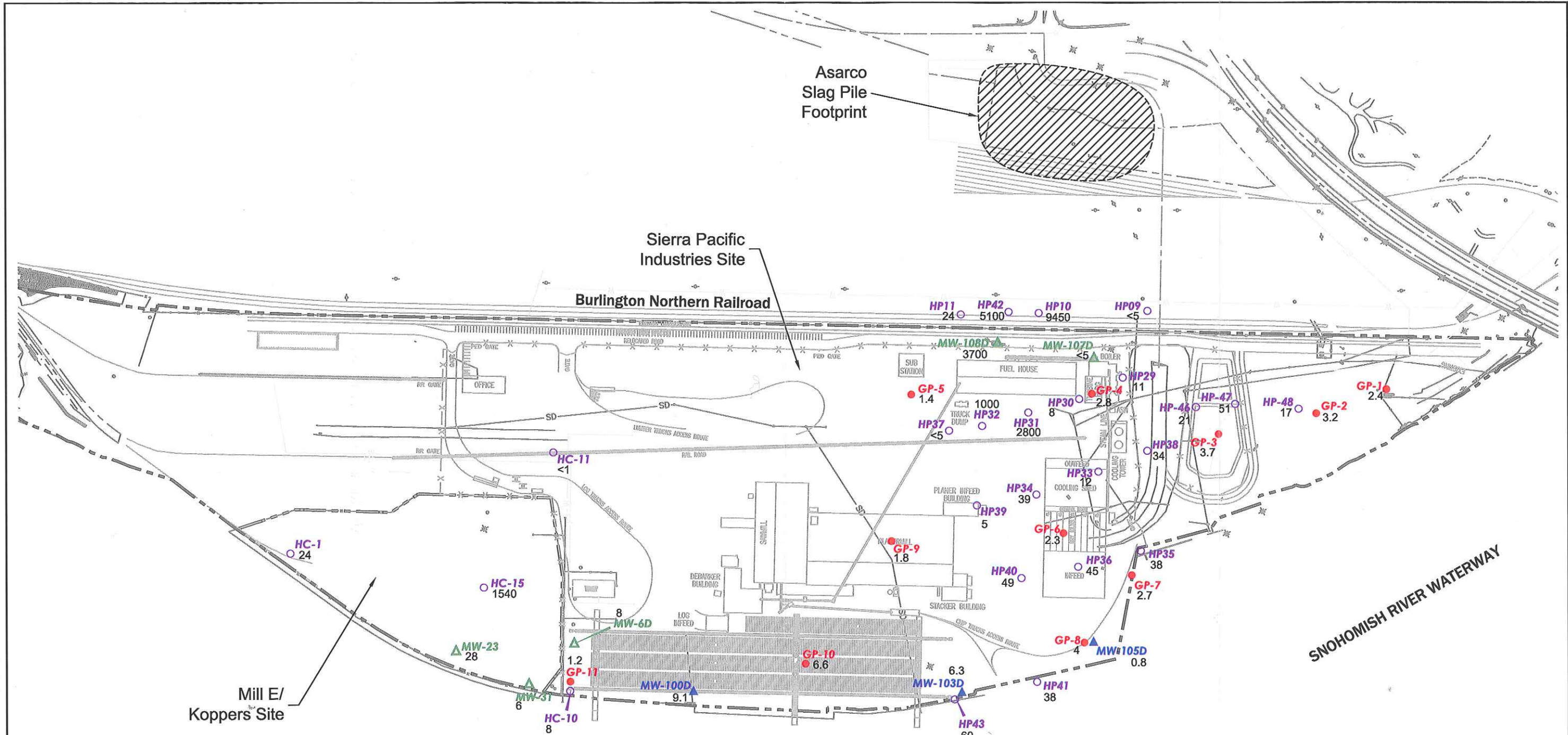
LEGEND

● GP-1	Geomatrix Geoprobe Location
○ HP01	Previous Historic Geoprobe Location
▲ MW-101S	Current Monitoring Well Location
▲ MW-30	Abandoned Monitoring Well Location



SHALLOW GROUNDWATER SAMPLE RESULTS - ARSENIC Sierra Pacific Industries Everett, Washington DRAFT		
GEOMATRIX	Project No. 10360	Figure 3

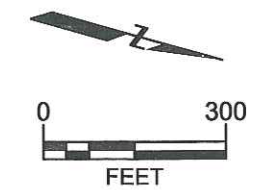
DWG NAME: G:\project\Clients\Geomatrix\SPI Everett\10360_004 (Fig4).dwg
 DATE: 06/08/05 2:50pm



- Notes:**
1. Groundwater sampling at current monitoring wells and Geomatrix geoprobe locations conducted by Geomatrix in May, 2005.
 2. All concentrations are in µg/L.
 3. Deep samples were collected from the lower confined aquifer from depths of approximately 20 to 30 feet.

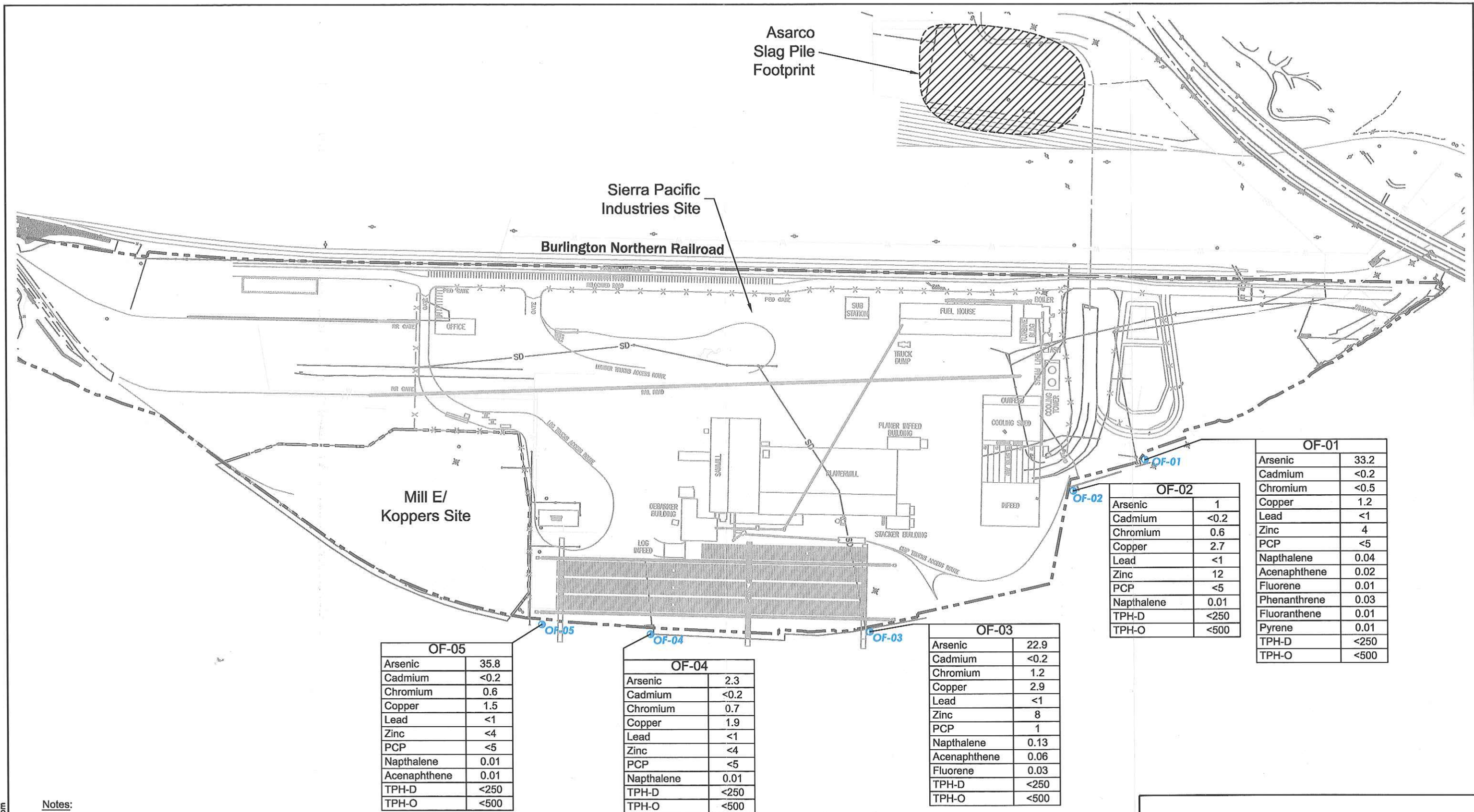
LEGEND

● GP-1	Geomatrix Geoprobe Location
○ HP01	Previous Historic Geoprobe Location
▲ MW-101D	Current Monitoring Well Location
▲ MW-23	Abandoned Monitoring Well Location



DEEP GROUNDWATER SAMPLE RESULTS - ARSENIC Sierra Pacific Industries Everett, Washington DRAFT		
 GEOMATRIX	Project No. 10360	Figure 4

DWG NAME: G:\project\Clients\Geomatrix\SPI Everett\10360_005 (Fig5).dwg
 DATE: 06/09/05 2:35pm



OF-05	
Arsenic	35.8
Cadmium	<0.2
Chromium	0.6
Copper	1.5
Lead	<1
Zinc	<4
PCP	<5
Napthalene	0.01
Acenaphthene	0.01
TPH-D	<250
TPH-O	<500

OF-04	
Arsenic	2.3
Cadmium	<0.2
Chromium	0.7
Copper	1.9
Lead	<1
Zinc	<4
PCP	<5
Napthalene	0.01
TPH-D	<250
TPH-O	<500

OF-03	
Arsenic	22.9
Cadmium	<0.2
Chromium	1.2
Copper	2.9
Lead	<1
Zinc	8
PCP	1
Napthalene	0.13
Acenaphthene	0.06
Fluorene	0.03
TPH-D	<250
TPH-O	<500

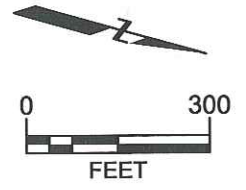
OF-02	
Arsenic	1
Cadmium	<0.2
Chromium	0.6
Copper	2.7
Lead	<1
Zinc	12
PCP	<5
Napthalene	0.01
TPH-D	<250
TPH-O	<500


OF-01	
Arsenic	33.2
Cadmium	<0.2
Chromium	<0.5
Copper	1.2
Lead	<1
Zinc	4
PCP	<5
Napthalene	0.04
Acenaphthene	0.02
Fluorene	0.01
Phenanthrene	0.03
Fluoranthene	0.01
Pyrene	0.01
TPH-D	<250
TPH-O	<500

- Notes:
1. Outfall sampling conducted by Geomatrix in May, 2005.
 2. All concentrations are in µg/L.

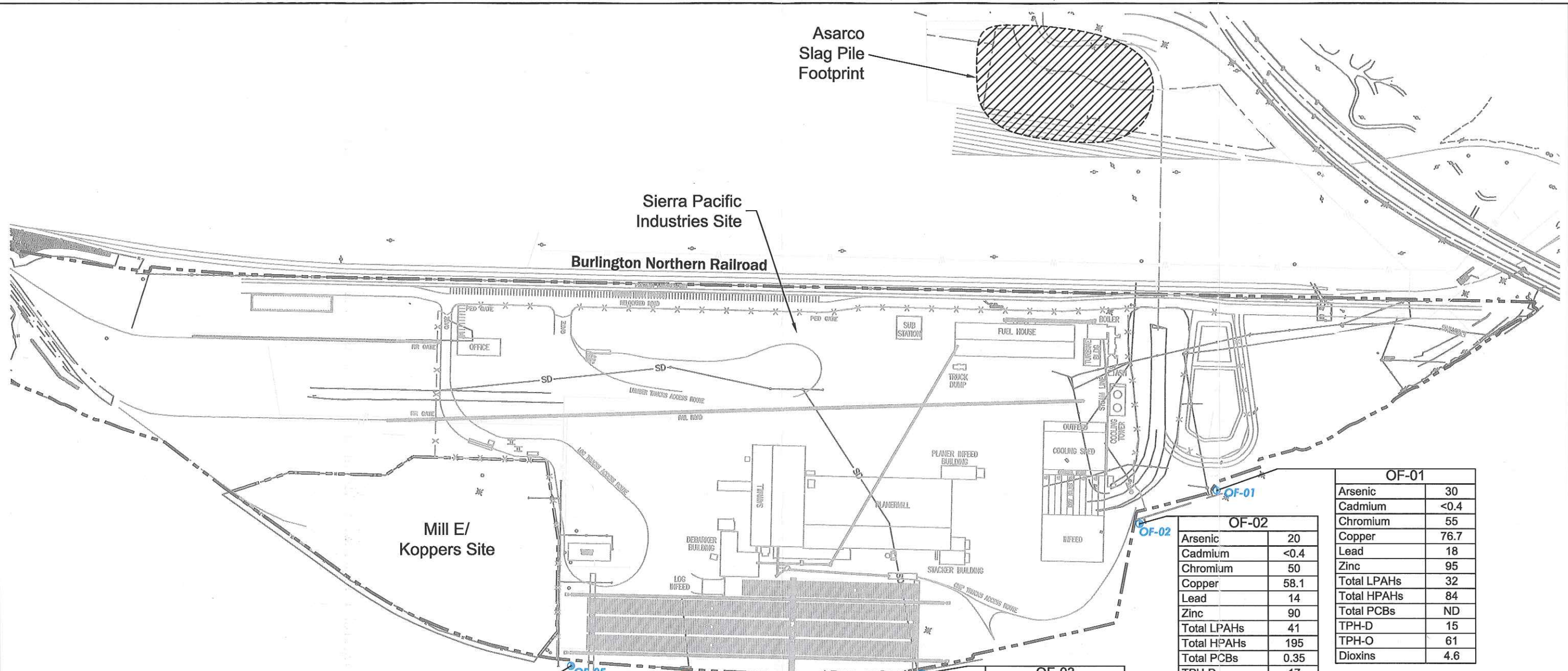
LEGEND

OF-01 Outfall Water and Sediment Sample Location



OUTFALL WATER SAMPLE RESULTS Sierra Pacific Industries Everett, Washington DRAFT		
 GEOMATRIX	Project No. 10360	Figure 5

DWG NAME: C:\projects\Clients\Geomatrix\SPI Everett\10360_006 (Fig6).dwg
 DATE: 06/09/05 2:47pm



OF-05	
Arsenic	22
Cadmium	<0.3
Chromium	43.4
Copper	51.1
Lead	13
Zinc	73
Total LPAHs	26
Total HPAHs	46
Total PCBs	ND
TPH-D	<8.6
TPH-O	<17
Dioxins	7.4

OF-04	
Arsenic	14
Cadmium	<0.2
Chromium	30.5
Copper	32.7
Lead	36
Zinc	57.6
Total LPAHs	14
Total HPAHs	38
Total PCBs	ND
TPH-D	8.9
TPH-O	39
Dioxins	16

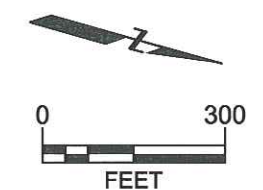
OF-03	
Arsenic	15
Cadmium	<0.3
Chromium	43.2
Copper	45.5
Lead	11
Zinc	71.6
Total LPAHs	35
Total HPAHs	58
Total PCBs	ND
TPH-D	<8.6
TPH-O	<17
Dioxins	3.1

OF-02	
Arsenic	20
Cadmium	<0.4
Chromium	50
Copper	58.1
Lead	14
Zinc	90
Total LPAHs	41
Total HPAHs	195
Total PCBs	0.35
TPH-D	17
TPH-O	63
Dioxins	7.6

OF-01	
Arsenic	30
Cadmium	<0.4
Chromium	55
Copper	76.7
Lead	18
Zinc	95
Total LPAHs	32
Total HPAHs	84
Total PCBs	ND
TPH-D	15
TPH-O	61
Dioxins	4.6

- Notes:
1. Outfall sampling conducted by Geomatrix in May, 2005.
 2. Metals and TPH concentrations are in mg/kg. PAH and PCB concentrations are in mg/kg organic carbon. Dioxin concentrations are in ng/kg.

LEGEND
 OF-01 Outfall Water and Sediment Sample Location




OUTFALL SEDIMENT SAMPLE RESULTS Sierra Pacific Industries Everett, Washington DRAFT		
 GEOMATRIX	Project No. 10360	Figure 6

TABLE 1
WATER SAMPLE FIELD PARAMETERS

Sample ID	Sample Date	Temp (°C)	pH (Std Units)	Electrical Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Redox (mV)	Turbidity (NTU)
GP-01S	5/10/05	12.4	6.34	0.652	0.89	37	240
GP-01D	5/10/05	12.6	6.59	0.556	0.74	6	110
GP-02S	5/10/05	12.5	6.64	0.961	0.64	-98	90
GP-02D	5/10/05	12.7	6.68	0.531	0.31	9	210
GP-03S	5/10/05	12.8	6.64	1.19	0.50	-71	80
GP-03D	5/10/05	13.8	6.78	0.386	0.41	-10	130
GP-04S	5/11/05	16.0	6.78	0.808	2.33	-83	240
GP-04D	5/11/05	14.0	6.93	0.414	0.28	3	290
GP-04DD	5/11/05	14.7	6.81	0.614	0.14	-89	140
GP-05S	5/11/05	13.2	6.29	1.08	0.38	21	110
GP-05D	5/11/05	13.2	6.31	2.89	0.28	-29	160
GP-06S	5/11/05	12.8	6.68	0.583	0.45	-52	280
GP-06D	5/11/05	13.1	6.72	0.536	0.61	-31	260
GP-07S	5/10/05	12.9	6.61	13.5	0.47	-33	240
GP-07D	5/10/05	13.2	7.03	1.58	0.60	-87	120
GP-08S	5/10/05	12.6	6.18	0.476	0.73	31	5
GP-08D	5/10/05	13.8	6.66	1.18	0.45	-48	240
GP-09S	5/11/05	13.8	6.81	0.802	0.35	-66	58
GP-09D	5/11/05	13.7	6.67	0.978	0.60	-5	410
GP-10S	5/11/05	13.5	8.91	1.10	0.54	-203	360
GP-10D	5/11/05	13.2	6.91	1.15	0.63	-110	280
GP-11S	5/11/05	13.9	7.21	0.342	1.87	22	82
GP-11D	5/11/05	12.8	6.58	4.15	0.86	12	320
MW-100S	5/9/05	12.2	6.69	2.38	6.31	178	240
MW-100D	5/9/05	13.2	6.97	1.02	0.44	20	80
MW-102S	5/12/05	12.1	5.94	0.808	0.85	128	15
MW-103S	5/9/05	11.3	6.17	0.769	0.81	60	170
MW-103D	5/12/05	12.9	6.50	0.942	0.31	18	110
MW-104S	5/9/05	13.7	6.35	0.527	---	109	21
MW-105S	5/9/05	12.4	6.30	0.613	0.54	-40	60
MW-105D	5/9/05	13.4	6.71	1.33	0.31	-83	90
MW-RA-8-3	5/9/05	11.7	6.29	1.22	0.81	-1	63
OF-01	4/27/2005	12.8	7.80	0.725	---	---	---
OF-02	4/27/2005	12.1	7.60	0.840	---	---	---
OF-03	4/27/2005	11.0	8.20	1.04	---	---	---
OF-04	4/27/2005	12.0	8.10	0.825	---	---	---
OF-05	4/27/2005	14.3	8.00	0.705	---	---	---
River - Low Tide	4/27/2005	12.5	8.10	1.674	---	---	---
River - High Tide	5/11/2005	12.5	7.49	5.66	10.54	155	190

Notes

1. --- indicates given field parameter was not measured.

TABLE 2

SOIL SAMPLE ANALYTICAL RESULTS

Sample ID	GP-01	GP-02	GP-03	GP-04	GP-05	GP-06	GP-07	GP-08	GP-09	GP-10	GP-11
Sample Depth (Feet)	1 to 10	1 to 10	2 to 9	2 to 6	4 to 6	2 to 6	4 to 12	6 to 11	5 to 8	7 to 9	4 to 7
Sample Date	5/10/2005	5/10/2005	5/10/2005	5/11/2005	5/11/2005	5/11/2005	5/10/2005	5/10/2005	5/11/2005	5/11/2005	5/11/2005
Analytes											
Total Metals (mg/kg)											
Arsenic	31	26	10	40	6	17	7	<6	22	16	51
Cadmium	<0.2	<0.2	0.3	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	28.8	29.3	29	30.5	28.2	25.1	31.2	21	28.6	25.3	27.8
Copper	24.3	23.2	63.7	28.5	20.1	45.4	42.8	16.5	24.8	23.1	21.1
Lead	36	12	44	52	5	48	37	4	5	10	22
Zinc	87.5	54.9	83.5	79	41.9	86.7	114	39.3	44.3	43.9	48.6
Semivolatile Organics (mg/kg)											
Pentachlorophenol	---	---	---	---	---	---	---	---	---	43	<0.042
PAHs	---	---	---	---	---	---	---	ND	---	---	ND
PCBs (mg/kg)											
Aroclor 1254	---	---	---	---	---	0.037J	0.047 J	<0.039	---	---	---
Other Aroclors	---	---	---	---	---	ND	ND	ND	---	---	---
Total Petroleum Hydrocarbons (mg/kg)											
Diesel Range	---	---	---	<6.2	---	38	80	<5.9	---	---	---
Oil Range	---	---	---	<12	---	93	590	12	---	---	---

Notes

1. ND indicates individual PAH constituents or PCB Aroclors were not detected.
2. J indicates estimated value.
3. < indicates analyte not detected above associated detection limit.
4. --- indicates sample was not analyzed for given analyte.

TABLE 3

GROUNDWATER GRAB SAMPLE ANALYTICAL RESULTS

Sample ID	GP-01S	GP-01D	GP-02S	GP-02D	GP-03S	GP-03D	GP-04S	GP-04D	GP-04DD	GP-05S	GP-05D	GP-06S	GP-06D	GP-07S	GP-07D
Sample Date	5/10/2005	5/10/2005	5/10/2005	5/10/2005	5/10/2005	5/10/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/10/2005	5/10/2005
Sample Depth in Feet	7 to 10	18 to 21	7 to 10	18 to 21	6 to 9	21 to 24	4 to 7	15 to 18	51 to 54	4 to 7	18 to 21	4 to 7	18 to 21	12 to 15	18 to 21
Analytes															
Dissolved Metals (µg/L)															
Arsenic	25.2	2.4	1,220	3.2	233	3.7	420	2.8	1.1	17.8	1.4	4.8	2.3	5.5	2.7
Cadmium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.2
Chromium	<0.5	6	<0.5	5.5	<0.5	5	0.6	4.7	<0.5	3.8	3.7	<1	4	<1	5
Copper	<0.5	0.6	<0.5	0.7	0.7	0.6	0.6	0.6	<0.5	6.2	2	0.8	0.7	3	4.3
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	<1	<1	<1	<2	1
Zinc	9	<4	<4	<4	5	<4	<4	<4	<4	15	<4	<4	<4	30	11
Semivolatile Organics (µg/L)															
Pentachlorophenol	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Conventional (mg/L)															
Total Suspended Solids	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes

- < indicates analyte not detected above associated detection limit.
- indicates sample was not analyzed for given analyte.
- J indicates estimated value.

TABLE 3

GROUNDWATER GRAB SAMPLE ANALYTICAL RESULTS

Sample ID	GP-08S	GP-08D	GP-09S	GP-09D	GP-10S	GP-10D	GP-11S	GP-11D
Sample Date	5/10/2005	5/10/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005	5/11/2005
Sample Depth in Feet	8 to 11	18 to 21	4 to 7	18 to 21	6 to 9	18 to 21	4 to 7	12 to 15
Analytes								
Dissolved Metals (µg/L)								
Arsenic	2.2	4	836	1.8	59.3	6.6	53.2	1.2
Cadmium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	<1	1	<0.5	11	<0.5	<0.5	<0.5	0.9
Copper	<1	1	<0.5	<0.5	1.1	1	2.3	<0.5
Lead	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	<10	<10	<4	<4	<4	<4	<4	<4
Semivolatile Organics (µg/L)								
Pentachlorophenol	---	---	---	---	14,000	15	<5	<5
Conventionals (mg/L)								
Total Suspended Solids	---	---	---	---	409	4,000	6.6	1,380

Notes

1. < indicates analyte not detected above associated detection limit.
2. --- indicates sample was not analyzed for given analyte.
3. J indicates estimated value.

TABLE 4

GROUNDWATER WELL SAMPLE ANALYTICAL RESULTS

Sample ID	MW-100S	MW-100D	MW-102S	MW-103S	MW-103D	MW-104S	MW-105S	MW-105D	MW-RA8-3
Sample Date	5/9/2005	5/9/2005	5/12/2005	5/9/2005	5/12/2005	5/9/2005	5/9/2005	5/9/2005	5/9/2005
Analytes									
Dissolved Metals (µg/L)									
Arsenic	1.2	9.1	1.6	1	6.3	0.4	1.4	0.8	2.1
Cadmium	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	0.6	1	<0.5	0.5	1.1	<0.5	<0.5	1	<0.5
Copper	2.2	2.4	0.7	3.4	3.2	2	3.8	<0.5	0.7
Lead	<1	<1	<1	<1	<1	<1	<1	<1	<1
Zinc	<4	<4	5	7	<4	<4	164	<4	5
Semivolatile Organics (µg/L)									
Pentachlorophenol	---	---	<5	---	---	---	---	---	5.6
Conventionals (mg/L)									
Total Suspended Solids	---	---	4.6	---	---	---	---	---	3.7

Notes

- < indicates analyte not detected above associated detection limit.
- indicates sample was not analyzed for given analyte.
- "S" wells are screened in the shallow unconfined aquifer at depths of approximately 5 to 10 feet, "D" wells are screened in the lower confined aquifer at depths of approximately 20 to 30 feet.

TABLE 5

OUTFALL AND SURFACE WATER SAMPLE ANALYTICAL RESULTS

Sample ID	OF-01	OF-02	OF-03	OF-04	OF-05	River - Low Tide	River - High Tide
Sample Date	4/27/2005	4/27/2005	4/27/2005	4/27/2005	4/27/2005	4/27/2005	
Analytes							
Total Metals (µg/L)							
Arsenic	33.2	1	22.9	2.3	35.8	---	---
Cadmium	<0.2	<0.2	<0.2	<0.2	<0.2	---	---
Chromium	<0.5	0.6	1.2	0.7	0.6	---	---
Copper	1.2	2.7	2.9	1.9	1.5	---	---
Lead	<1	<1	<1	<1	<1	---	---
Zinc	4	12	8	<4	<4	---	---
Semivolatile Organics (µg/L)							
Pentachlorophenol	<5	<5	1 J	<5	<5	---	---
Naphthalene	0.04 B	0.01 B	0.13 B	0.01 JB	0.01 B	---	---
Acenaphthene	0.02	<0.01	0.06	<0.01	0.01	---	---
Fluorene	0.01	<0.01	0.03	<0.01	<0.01	---	---
Phenanthrene	0.03	<0.01	<0.01	<0.01	<0.01	---	---
Fluoranthene	0.01	<0.01	<0.01	<0.01	<0.01	---	---
Pyrene	0.01	<0.01	<0.01	<0.01	<0.01	---	---
All other constituents	ND	ND	ND	ND	ND	---	---
Total Petroleum Hydrocarbons (mg/L)							
Diesel Range	<0.25	<0.25	<0.25	<0.25	<0.25	---	---
Oil Range	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
Conventionals (mg/L)							
Total Suspended Solids	11.9	2.5	8.9	<1	28.7	---	---
Hardness as CaCO ₃	---	---	---	---	---	93	570

Notes

- < indicates analyte not detected above associated detection limit.
- J indicates estimated value.
- B indicates analyte was also detected in the method blank.
- ND indicates individual PAH constituents were not detected.
- indicates sample was not analyzed for given analyte.

PROJECT: SPI Everett Everett, Washington				Log of Boring No. GP-01			
BORING LOCATION: North Area				ELEVATION AND DATUM: 13.65 feet MLLW			
DRILLING CONTRACTOR: ESN Northwest, Inc.				DATE STARTED: 5/10/05		<div style="border: 2px solid black; padding: 5px; text-align: center;"> DRAFT <small>DATE FINISHED: 5/10/05</small> </div>	
DRILLING METHOD: Direct push				TOTAL DEPTH (ft.): 21.0			
DRILLING EQUIPMENT: Geoprobe 5400				DEPTH TO WATER (ft.):		FIRST 7.0	COMPL. 7.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]				LOGGED BY: J. Morrice			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: J. Morrice			REG. NO. L.Hg. 795
DEPTH (feet)	SAMPLES			OVM READING READING (ppm)	DESCRIPTION	REMARKS	
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.		
					Surface Elevation: 13.65 feet		
1					POORLY GRADED SAND (SP): brown (10YR 5/3), moist, 95% fine sand, 5% non-plastic fines SILT (ML): brown (10YR 5/3), moist, 95% fines, 5% gravel, non-plastic, soft		
2							
3					dark brown wood		
4					POORLY GRADED SAND (SP): brown (10YR 5/3), moist, 95% medium sand, 5% non-plastic fines		
5							
6							
7					wet	Grab groundwater sample GP-01 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 7 to 10 feet bgs..	
8							
9							
10					LEAN CLAY (CL): dark grayish brown (10YR 4/2), wet, 100% fines, medium plasticity, soft, rootlets		
11							
12							
13							
14					5% fine sand		
15							



PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-01 (cont'd)

DRAFT REMARKS

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					LEAN CLAY (CL): (cont'd)	
17					POORLY GRADED SAND (SP): gray (N 5), wet, 95% medium sand, 5% non-plastic fines	
18						Grab groundwater sample GP-01 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 18 to 21 feet bgs.
19						
20						
21					Bottom of boring at 21 feet.	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

OAKBOREY (REV. 3/00)



PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-02

BORING LOCATION: North Area

ELEVATION AND DATUM:
13.94 feet MLLW

DRILLING CONTRACTOR: ESN Northwest, Inc.

DATE STARTED:
5/10/05

DRAFT

DRILLING METHOD: Direct push

TOTAL DEPTH (ft.):
21.0

MEASURING POINT:
Ground surface

DRILLING EQUIPMENT: Geoprobe 5400

DEPTH TO WATER (ft.):

FIRST
7.0

COMPL.
7.0

SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]

LOGGED BY:
J. Morrice

HAMMER WEIGHT: NA

DROP: NA

RESPONSIBLE PROFESSIONAL:
J. Morrice

REG. NO.
L.Hg. 795

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation: 13.94 feet	
1					POORLY GRADED SAND (SP): brown (10YR 5/3), moist, 95% fine sand, 5% non-plastic fines	Grab groundwater sample GP-02 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 7 to 10 feet bgs.
2					SILT (ML): dark grayish brown (10YR 4/2), moist, 90% fines, 10% gravel, non-plastic, firm	
3						
4						
5						
6					dark brown wood	
7					POORLY GRADED SAND (SP): gray (N 5/), wet, 95% medium sand, 5% non-plastic fines	
8						
9						
10					LEAN CLAY (CL): gray (N 5/), wet, 100% fines, medium plasticity, soft, rootlets	
11						
12						
13						
14						
15						

PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-02 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					LEAN CLAY (CL): (cont'd)	
17					POORLY GRADED SAND (SP): gray (N 5/), wet, 95% medium to coarse sand, 5% non-plastic fines	
18						Grab groundwater sample GP-02 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 18 to 21 feet bgs.
19						
20						
21					Bottom of boring at 21 feet.	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

DRAFT



PROJECT: SPI Everett Everett, Washington		Log of Boring No. GP-03			
BORING LOCATION: North Area		ELEVATION AND DATUM: 14.20 feet MLLW			
DRILLING CONTRACTOR: ESN Northwest, Inc.		DATE STARTED: 5/10/05	DRAFT DATE FINISHED: 5/10/05		
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 24.0		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: Geoprobe 5400		DEPTH TO WATER (ft.):	FIRST 6.0	COMPL. 5.0	
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]		LOGGED BY: J. Morrice			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: J. Morrice	REG. NO. L.Hg. 795

DEPTH (feet)	SAMPLES			OVM READING READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: 14.20 feet	
1					POORLY GRADED SAND (SP): dark grayish brown (10YR 4/2), moist, 95% fine sand, 5% non-plastic fines	
2					SILT (ML): dark grayish brown (10YR 4/2), moist, 90% fines, 10% gravel, non-plastic, firm	
3						
4						
5					SILTY SAND (SM): mottled black and dark brown (2.5Y 2.5/1 and 10YR 3/3), moist to wet, 60% fine sand, 40% non-plastic fines, brick fragments	
6						Grab groundwater sample GP-03 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 6 to 9 feet bgs.
7					POORLY GRADED SAND (SP): dark grayish brown (10YR 4/2), wet, 95% medium sand, 5% non-plastic fines	
8						
9					LEAN CLAY (CL): brown (10YR 5/3), wet, 100% fines, medium plasticity, soft, rootlets	
10						
11						
12						
13						
14						
15						

PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-03 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					LEAN CLAY (CL): (cont'd)	
17						
18						
19						
20						
21					POORLY GRADED SAND (SP): gray (N 5), wet, 95% fine to medium sand, 5% non-plastic fines	Grab groundwater sample GP-03 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 21 to 24 feet bgs.
22						
23						
24					Bottom of boring at 24 feet.	
25						
26						
27						
28						
29						
30						
31						
32						
33						

DRAFT

PROJECT: SPI Everett Everett, Washington		Log of Boring No. GP-04	
BORING LOCATION: Cogen Area		ELEVATION AND DATUM: 13 feet MLLW	
DRILLING CONTRACTOR: ESN Northwest, Inc.		DATE STARTED: 5/11/05	DATE FINISHED: 5/17/05
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 54.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 5400		DEPTH TO WATER (ft.): 4.0	FIRST 4.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]		LOGGED BY: J. Morrice	
HAMMER WEIGHT: NA		DROP: NA	RESPONSIBLE PROFESSIONAL: J. Morrice
			REG. NO. L.Hg. 795

DRAFT

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation: 13 feet	
1					ASPHALTIC CONCRETE	
2					SILTY GRAVEL with SAND (GM): brown (10YR 5/3), moist, 55% fine gravel, 25% medium sand, 20% non-plastic fines	
3					SILTY SAND (SM): dark gray (5Y 4/1), moist to wet, 75% fine sand, 25% non-plastic fines	
4	GP-04 2.6					Grab groundwater sample GP-04 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 4 to 7 feet bgs.
5						
6						
7					LEAN CLAY (CL): dark gray (5Y 4/1), wet, 95% fines, 5% fine sand, medium plasticity, soft, wood layers	
8						
9					no sand, abundant wood (~15%)	
10						
11						
12						
13					POORLY GRADED SAND (SP): dark gray (5Y 4/1), wet, 95% fine to medium sand, 5% non-plastic fines, woody layers	
14						
15						

OAKBOREV (REV. 3/00)



PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-04 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					POORLY GRADED SAND (SP): (cont'd)	Grab groundwater sample GP-04 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 15 to 18 feet bgs.
17						
18						
19						
20						
21					↓ 90% medium sand, 5% fine gravel, 5% non-plastic fines	
22						
23						
24						
25						
26						
27					↓ sand becoming fine	
28						
29					POORLY GRADED SAND with SILT (SP-SM): dark gray (5Y 4/1), wet, 90% fine sand, 10% non-plastic fines	
30						
31					SILTY SAND (SM): dark gray (5Y 4/1), wet, 80% fine sand, 20% non-plastic fines	
32						
33						

DRAFT

PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-04 (cont'd)

DRAFT
REVISIONS

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.
	Sample No.	Sample	Blows/ Foot		
34					SILTY SAND (SM): (cont'd)
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					

OAKBORE (REV. 3/00)



PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-04 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
52					SILTY SAND (SM): (cont'd)	Grab groundwater sample GP-04 DD collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 51 to 54 feet bgs.
53						
54					Bottom of boring at 54 feet.	
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						
65						
66						
67						
68						
69						

DRAFT



PROJECT: SPI Everett Everett, Washington		Log of Boring No. GP-05	
BORING LOCATION: Cogen Area		ELEVATION AND DATUM: 13.29 feet MLLW	
DRILLING CONTRACTOR: ESN Northwest, Inc.		DATE STARTED: 5/11/05	DATE FINISHED: 5/11/05
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 21.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 5400		DEPTH TO WATER (ft.): 4.0	FIRST 4.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]		LOGGED BY: J. Morrice	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Morrice	REG. NO. L.Hg. 795

DRAFT

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation: 13.29 feet	
1					POORLY GRADED SAND (SP): brown (10YR 5/3), moist, 95% fine sand, 5% non-plastic fines	Grab groundwater sample GP-05 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 4 to 7 feet bgs.
2						
3						
4						
5					↓ wet	
6						
7						
8					LEAN CLAY (CL): brown (10YR 5/3), wet, 95% fines, 5% fine sand, medium plasticity, soft, rootlets and wood fragments	
9						
10						
11						
12					SILT with SAND (ML): gray (N 5), wet, 80% fines, 20% fine sand, low plasticity, soft	
13						
14						
15						

GP-05 4-6



PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-05 (cont'd)

DRAFT

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					POORLY GRADED SAND (SP): gray (N 5/), wet, 95% medium sand, 5% non-plastic fines	sand in bottom of shoe
17						
18					Bottom of boring at 21 feet.	Grab groundwater sample GP-05 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 18 to 21 feet bgs.
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

OAKBOREV (REV. 3/00)



PROJECT: SPI Everett Everett, Washington				Log of Boring No. GP-06			
BORING LOCATION: Dry Kiln Area				ELEVATION AND DATUM: 12.02 feet MLLW			
DRILLING CONTRACTOR: ESN Northwest, Inc.				DATE STARTED: 5/11/05		DATE FINISHED: 5/17/05	
DRILLING METHOD: Direct push				TOTAL DEPTH (ft.): 21.0		MEASURING POINT: Ground surface	
DRILLING EQUIPMENT: Geoprobe 5400				DEPTH TO WATER (ft.):		FIRST 4.0	COMPL. 4.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]				LOGGED BY: J. Morrice			
HAMMER WEIGHT: NA		DROP: NA		RESPONSIBLE PROFESSIONAL: J. Morrice		REG. NO. L.Hg. 795	
DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION		REMARKS
	Sample No.	Sample Blows/ Foot			NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	Surface Elevation: 12.02 feet	
1						SILTY SAND (SM): brown (10YR 5/3), moist, 60% fine sand, 40% non-plastic fines	Grab groundwater sample GP-06 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 4 to 7 feet bgs. clay in side of shoe
2						SILTY GRAVEL (GM): dark gray (5Y 4/1), moist, 70% fine gravel, 30% non-plastic fines	
3							
4						WOOD	
5						POORLY GRADED SAND (SP): dark gray (5Y 4/1), wet, 95% medium sand, 5% non-plastic fines	
6							
7							
8							
9							
10							
11						LEAN CLAY (CL): gray (N 5/), wet, 95% fines, 5% fine sand, medium plasticity, soft, rootlets	
12							
13							
14						SILT (ML): gray (N 5/), wet, 90% fines, 10% fine sand, low plasticity, soft	
15							

DRAFT



PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-06 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					SILT (ML): (cont'd)	
17					POORLY GRADED SAND (SP): gray (N 5), wet, 95% medium sand, 5% non-plastic fines	
18						Grab groundwater sample GP-06 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 18 to 21 feet bgs.
19						
20					wood	
21					Bottom of boring at 21 feet.	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

DRAFT

PROJECT: SPI Everett Everett, Washington		Log of Boring No. GP-07					
BORING LOCATION: Dry Kiln Area		ELEVATION AND DATUM: 15.98 feet MLLW					
DRILLING CONTRACTOR: ESN Northwest, Inc.		DATE STARTED: 5/10/05	<table border="1"> <tr> <td colspan="2">DATE FINISHED: 5/10/05</td> </tr> <tr> <td colspan="2" style="text-align: center;">DRAFT</td> </tr> </table>	DATE FINISHED: 5/10/05		DRAFT	
DATE FINISHED: 5/10/05							
DRAFT							
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 21.0	MEASURING POINT: Ground surface				
DRILLING EQUIPMENT: Geoprobe 5400		DEPTH TO WATER (ft.):	FIRST 11.0				
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]		COMPL. 11.0					
HAMMER WEIGHT: NA		LOGGED BY: J. Morrice					
DROP: NA		RESPONSIBLE PROFESSIONAL: J. Morrice					
		REG. NO. L.Hg. 795					

DEPTH (feet)	SAMPLES				OVM READING READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot				
						Surface Elevation: 15.98 feet	
1						SANDY SILT (ML): dark brown (10YR 3/3), moist, 70% fines, 30% fine sand, non-plastic, soft	
2						POORLY GRADED GRAVEL (GP): gray (N 5/), moist, 95% fine gravel, 5% sand	
3							
4						SANDY SILT (ML): dark brown (10YR 3/3), moist, 60% fines, 40% fine sand, non-plastic, soft	
5							
6						brick	
7							
8							
9						brick	
10							
11						wet	
12						wood	
13						POORLY GRADED SAND (SP): dark gray (5Y 4/1), wet, 95% medium sand, 5% non-plastic fines	Grab groundwater sample GP-07 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 12 to 15 feet bgs.
14						LEAN CLAY (CL): gray (N 5/), wet, 100% fines, medium plasticity, soft, rootlets	
15							

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					LEAN CLAY (CL): (cont'd)	Grab groundwater sample GP-07 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 18 to 21 feet bgs.
17					POORLY GRADED SAND (SP): dark gray (5Y 4/1), wet, 95% fine to medium sand, 5% non-plastic fines	
18					↓ grades to fine sand	
19						
20						
21					Bottom of boring at 21 feet.	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

DRAFT

PROJECT: SPI Everett Everett, Washington		Log of Boring No. GP-08	
BORING LOCATION: Dry Kiln Area		ELEVATION AND DATUM: 13.49 feet MLLW	
DRILLING CONTRACTOR: ESN Northwest, Inc.		DATE STARTED: 5/10/05	DATE FINISHED: 5/10/05
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 21.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 5400		DEPTH TO WATER (ft.): 7.0	FIRST 7.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]		COMPL. 6.0	
HAMMER WEIGHT: NA		LOGGED BY: J. Morrice	
DROP: NA		RESPONSIBLE PROFESSIONAL: J. Morrice	
		REG. NO. L.Hg. 795	

DRAFT

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION	REMARKS
	Sample No.	Sample	Blows/ Foot		NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	
					Surface Elevation: 13.49 feet	
1					POORLY GRADED SAND (SP): brown (10YR 5/2), moist, 95% fine sand, 5% non-plastic fines	
2						
3						
4						
5						
6						
7					↓ wet	Grab groundwater sample GP-08 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 8 to 11 feet bgs.
8						
9						
10						
11						
11					↓ gray (N 5)	
12					LEAN CLAY (CL): gray (N 5), wet, 100% fines, medium plasticity, soft, rootlets	
13					POORLY GRADED SAND (SP): gray (N 5), wet, 95% fine sand, 5% non-plastic fines	
14						
15						

GP-08 6-11



PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-08 (cont'd)

DRAFT REMARKS

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					POORLY GRADED SAND (SP): (cont'd)	
17						
18						
19						
20						
21					Bottom of boring at 21 feet.	Grab groundwater sample GP-08 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 18 to 21 feet bgs.
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

OAKBOREV (REV. 3/00)



PROJECT: SPI Everett Everett, Washington		Log of Boring No. GP-09	
BORING LOCATION: Mill Area		ELEVATION AND DATUM: 13.43 feet MLLW	
DRILLING CONTRACTOR: ESN Northwest, Inc.		DATE STARTED: 5/11/05	DATE FINISHED: 5/17/05
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 21.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 5400		DEPTH TO WATER (ft.): 5.0	FIRST 5.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]		LOGGED BY: J. Morrice	
HAMMER WEIGHT: NA		DROP: NA	REG. NO. L.Hg. 795

DRAFT

DEPTH (feet)	SAMPLES				OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot				
						Surface Elevation: 13.43 feet	
1						POORLY GRADED SAND with SILT (SP-SM): brown (10YR 5/3), moist, 90% fine sand, 10% non-plastic fines	
2							
3							
4							
5						POORLY GRADED SAND (SP): gray (N 5/), wet, 95% medium sand, 5% non-plastic fines	Grab groundwater sample GP-09 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 4 to 7 feet bgs.
6							
7							
8						wood	
9							
10							
11							
12							very soft, no recovery, silt on end of sampler
13							
14						SILT (ML): gray (N 5/), wet, 90% fines, 10% fine sand, low plasticity, soft, wood and rootlets	
15							

GP-09 5-8

OAKBOREV (REV. 3/00)



PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-09 (cont'd)

DRAFT REMARKS

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					SILT (ML): (cont'd)	Grab groundwater sample GP-09 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 18 to 21 feet bgs.
17					POORLY GRADED SAND (SP): gray (N 5), wet, 95% medium sand, 5% non-plastic fines	
18						
19						
20						
21					Bottom of boring at 21 feet.	
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

OAKBOREY (REV. 3/00)



PROJECT: SPI Everett Everett, Washington		Log of Boring No. GP-10	
BORING LOCATION: Log Decks		ELEVATION AND DATUM: 13.50 feet MLLW	
DRILLING CONTRACTOR: ESN Northwest, Inc.		DATE STARTED: 5/11/05	DATE FINISHED: 5/17/05
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 21.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 5400		DEPTH TO WATER (ft.):	FIRST: 7.0 COMPL.: 7.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]		LOGGED BY: J. Morrice	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Morrice	REG. NO. L.Hg. 795

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
					Surface Elevation: 13.50 feet	
1					POORLY GRADED SAND with SILT (SP-SM): brown (10YR 5/3), moist, 90% fine sand, 10% non-plastic fines	
2						
3						
4						
5						
6					CONCRETE	
7					POORLY GRADED SAND (SP): gray (N 5/), wet, 95% medium sand, 5% non-plastic fines, strong odor	Grab groundwater sample GP-10 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 6 to 9 feet bgs. Sheen on purge water
8						
9					LEAN CLAY (CL): gray (N 5/), wet, 95% fines, 5% fine sand, medium plasticity, soft, rootlets	
10						
11						
12						
13					POORLY GRADED SAND with SILT (SP-SM): gray (N 5/), wet, 90% fine sand, 10% non-plastic fines, wood layers	
14						
15						

PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-10 (cont'd)

DRAFT REMARKS

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS	
	Sample No.	Sample	Blows/ Foot				
16					POORLY GRADED SAND with SILT (SP-SM): (cont'd)		
17							
18							push sampler to 21' to collect water sample.
19							Grab groundwater sample GP-10 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 18 to 21 feet bgs.
20							
21						Bottom of boring at 21 feet.	
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							

OAKBOREV (REV. 3/00)



PROJECT: SPI Everett Everett, Washington		Log of Boring No. GP-11	
BORING LOCATION: Log Decks		ELEVATION AND DATUM: 11.3 feet MLLW	
DRILLING CONTRACTOR: ESN Northwest, Inc.		DATE STARTED: 5/11/05	DRAFT
DRILLING METHOD: Direct push		TOTAL DEPTH (ft.): 15.0	MEASURING POINT: Ground surface
DRILLING EQUIPMENT: Geoprobe 5400		DEPTH TO WATER (ft.):	FIRST: 7.0 COMPL.: 7.0
SAMPLING METHOD: Geoprobe macro-core sampler [4' x 1.5" & 3' x 1.5"]		LOGGED BY: J. Morrice	
HAMMER WEIGHT: NA	DROP: NA	RESPONSIBLE PROFESSIONAL: J. Morrice	REG. NO. L.Hg. 795

DEPTH (feet)	SAMPLES				OVM READING READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot				
						Surface Elevation: 11.3 feet	
1						POORLY GRADED SAND with SILT (SP-SM): brown (10YR 5/3), moist, 90% fine sand, 10% non-plastic fines	Grab groundwater sample GP-11 S collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 4 to 7 feet bgs.
2							
3							
4							
5							
6							
7							
8						LEAN CLAY (CL): brown (10YR 5/3), wet, 95% fines, 5% fine sand, medium plasticity, soft, rootlets	
9							
10							
11							
12						POORLY GRADED SAND (SP): gray (N 5/), wet, 95% fine to medium sand, 5% non-plastic fines	Grab groundwater sample GP-11 D collected through 1-inch OD PVC temporary well casing; 3 feet of well screen (0.010-inch slot size) placed in borehole from 12 to 15 feet bgs.
13							
14							
15							

PROJECT: SPI Everett
Everett, Washington

Log of Boring No. GP-11 (cont'd)

DEPTH (feet)	SAMPLES			OVM READING (ppm)	DESCRIPTION NAME (USCS): color, moist, % by wt., plast. density, structure, cementation, react. w/HCl, geo. inter.	REMARKS
	Sample No.	Sample	Blows/ Foot			
16					Bottom of boring at 15 feet.	
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						

DRAFT

