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August 14, 2007

Dana Bayuk
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2020 SW 4th Avenue, Suite 400
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Re: Phase 2 Step 2 Field Sampling Approach
Gasco Siltronic Groundwater Source Evaluation

Dear Mr. Bayuk:

Thank you for meeting with NW Natural on August 9, 2007 to discuss the results of the Phase 2, Step 1 Offshore investigation and plans for the Step 2 investigation. The purpose of this letter is to present the water quality data from the Step 1 offshore investigation and to provide the map of planned Step 2 boring locations. Timely agency review and approval of the planned boring locations are needed to allow completion of the Step 2 borings during the in-water fish window. NW Natural has the barge and drilling contractor currently scheduled to begin the Step 2 field work during the last week of August, 2007.

Twenty three Step 1 offshore borings were completed during the period from July 5 through July 24, 2007. Pore water samples from the offshore borings were provided to Columbia Analytical Services daily for analysis on a three day fast-turnaround basis for VOCs, free cyanide, amenable cyanide, and total cyanide. The fast turnaround was instituted to provide information for planning the Step 2 borings in a timely manner to facilitate completion of the Step 2 offshore investigation within the allowable in-water fish window.

The Step 1 data provided herein are currently in the validation process and should be considered draft and subject to revision. However, these data are acceptable for the purpose of planning the Step 2 boring locations. The completed Phase 2, Step 1 investigation and proposed Phase 2, Step 2 investigation are consistent with the Phase 2 field sampling plan (FSP) as it was presented in the *Phase 1 Report and Phase 2 Field Sampling Approach, Gasco Siltronic Groundwater Source Evaluation* (Anchor, May 2007) and the *Addendum to Phase 2 Field Sampling Approach* (Anchor, July 2, 2007).

The attached data tables and figures were provided to DEQ by email on August 7, 2007 and discussed in the August 9 meeting. The tables and figures provide the pore water quality data resulting from fast-turnaround analysis of the Step 1 pore water samples. As specified in the FSP, the pore water samples are also being tested for PAHs on a normal lab turnaround schedule. Therefore the PAH data will not be available for determining the locations of the Step 2 borings. As agreed in the FSP, the fast-turnaround data in Tables 1 and 2 have been evaluated to determine the appropriate locations for the Step 2 offshore borings. The Step 2 borings on Figure 11 incorporate the locations proposed by DEQ in the August 9 meeting. Following is a list of the attached tables and figures.

Table 1: **Field Water Quality Data**
Table 2: **Groundwater Chemistry data**
Figure 1: **Map View Free Cyanide Data (includes locations of x-sections)**
Figure 2: **Map View Amenable Cyanide Data**
Figure 3: **Map View Total Cyanide Data**
Figure 4: **Map View Benzene Data**
Figure 5: **Map View Naphthalene Data**
Figure 6: **Map View Toluene Data**
Figure 7: **X-section A-A′**
- **a: benzene**
- **b: naphthalene**
- **c: toluene**
- **d: total cyanide**
- **e: amenable cyanide**
- **f: free cyanide**

Figure 8a – 8f: **X-sections B-B′**
Figure 9a – 9f: **X-sections C-C′**
Figure 10a–10f: **X-sections D-D′**
Figure 11: **Proposed Phase 2, Step 2 Boring Locations**

As shown in Figure 11, 8 Step 2 borings are planned. These locations coincide with three transects perpendicular to the river at the following Step 1 borings.

GS-B2	GS-B5	GS-B7
GS-C2	GS-C5	GS-C7
	GS-D2	GS-D4

As discussed in the FSP, Phase 2, Step 2 will have 2 components, sediment sampling and pore water sampling. Sampling will be consistent with the *Phase 1 Report and Phase 2 Field Sampling Approach, Gasco Siltronic Groundwater Source Evaluation* (Anchor, May 2007) and the *Addendum to Phase 2 Field Sampling Approach* (Anchor, July 2, 2007). Attachment A includes Tables 7, 8, 9a, and 9b from the *Addendum to the Phase 2 Field Sampling Approach*. Table 7 summarizes field QC sampling. Table 8 provides a detailed summary of the target analytes, sample container types, holding times, and sample preservatives for Phase 2 sample collection. Table 9a summarizes the details of the sediment profiling chemical analytes, analysis methods, method reporting limits, method detection limits, and minimum sample mass requirements. Table 9b summarizes the details of the groundwater/pore water analytes, analysis methods, method reporting limits, method detection limits, and minimum sample mass and volume requirements.

Sediment Sampling

Anchor is currently working with the drilling contractor, Boart Longyear, to construct a piston-core sampler that will be deployed and pushed with the Geoprobe. Samples will be collected by direct push to a target depth of approximately 10 feet below mudline. The piston core is planned to be constructed of a 3-inch diameter aluminum core tube. If piston core refusal is encountered at less than 10 feet below mudline, a Geoprobe macro core sampler (2-inch diameter, 5 foot long sampler) will be used to sample the remaining interval.

Groundwater Sampling

During Step 2 the drill rig will be set up to obtain groundwater samples at approximate 25 ft depth intervals below mudline. The sampling procedures will be as presented in the FSP. The borings will be advanced until sampler refusal occurs.

DEQ written approval of the Step 2 boring locations is needed before the drill rig is mobilized on August 27.

Respectfully submitted,

John E. Edwards, RG, CEG

Anchor Environmental, L.L.C.

Attachments: Tables 1 and 2
Figures 1 through 11
Attachment A (Tables 7, 8, 9a, 9b)

Cc: Bob Wyatt, NW Natural
Patty Dost, Schwabe, Williamson, Wyatt
Rob Ede, HAI
Carl Stivers, Anchor
John Renda, Anchor

TABLES

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Table 1
Field Water Quality Parameters
Gasco Phase 2 Investigation
Gasco/Siltronic
Portland, Oregon

DRAFT UNVALIDATED DATA - SUBJECT TO CHANGE

Location ID	Date	pH	Conductivity (µS)	Temp (ºC)	ORP (mV)	Diss O_2 (mg/l)	Water Quality	NAPL Present	Sheen Present
GS-B1-A	7/17/2007	6.51	174	22.57	20.3	2.27	Silty, dark grey, clearing		
GS-B1-B	7/17/2007	6.39	1086	21.03	10.7	0.80	Silty, grey, clearing		
GS-B1-C	7/17/2007	6.13	2151	19.98	47.9	1.54	Silty, grey		
GS-B2-A1	7/17/2007	6.88	146	23.69	34.5	3.84	Silty, grey, strong odor		X
GS-B2-A2	7/17/2007	6.71	175	23.92	40.0	1.09	Silty, grey, thick sheen		X
GS-B2-B	7/17/2007	6.43	1008	20.60	44.1	0.64	Silty, grey, clearing		
GS-B2-C	7/17/2007	6.69	813	22.83	29.0	0.70	Silty, grey, clearing		
GS-B3-A	7/19/2007	7.07	190	23.88	-21.8	0.92	Silty, grey, clearing		
GS-B3-B	7/19/2007	6.59	549	25.58	7.7	1.84	Silty, grey		
GS-B3-C	7/19/2007	6.83	831	23.78	-6.1	0.85	Silty, grey, clearing		
GS-B4-A	7/19/2007	6.81	296	22.99	23.9	0.48	Silty, grey		
GS-B4-B	7/19/2007	6.44	1300	21.11	38.2	1.04	Silty, grey		X
GS-B4-C	7/19/2007	6.82	852	22.62	18.0	1.03	Silty, grey, clearing		
GS-B5-A	7/18/2007	6.86	1110	22.28	0.6	0.70	Silty, grey, clearing		X
GS-B5-B	7/18/2007	6.58	511	22.57	-2.3	0.59	Silty, grey		X
GS-B5-C	7/18/2007	6.63	1002	20.94	-1.0	0.89	Silty, cloudy, grey		X
GS-B6-A	7/6/2007	6.35	167	21.09	3.0	0.91	Silty, cloudy, light tan		
GS-B6-B	7/6/2007	6.42	216	21.71	-3.6	0.81	Silty, cloudy, tan		
GS-B6-C	7/6/2007	6.55	711	22.05	-61.0	0.60	Clear, colorless		
GS-B7-A	7/5/2007	6.17	1005	20.84	-13.7	3.01	Slightly cloudy, light grey		
GS-B7-B	7/5/2007	6.81	137	22.84	-30.0	4.80	Slightly cloudy, light grey		
GS-B7-C	7/5/2007	6.08	175	22.30	5.7	2.72	Slightly cloudy, light grey		
GS-B8-A	7/9/2007	6.59	232	21.26	-20.7	0.46	Silty, dark grey		
GS-B8-B	7/9/2007	6.58	380	22.41	-30.4	0.74	Silty, grey		X
GS-B8-C	7/9/2007	6.49	1025	20.07	-40.2	0.41	Slightly cloudy, grey		
GS-B9-A	7/9/2007	6.74	138	23.85	-13.6	0.43	Silty, grey		
GS-B9-B	7/9/2007	6.54	171	25.01	18.1	4.22	Slightly cloudy, grey	X	X
GS-B9-C	7/9/2007	6.37	906	21.02	-35.0	0.38	Silty, grey		
GS-C1-A	7/16/2007	7.00	2695	25.75	-48.2	5.50	Silty, grey, gas bubbles		
GS-C1-B	7/16/2007	6.79	2338	23.11	-55.3	0.71	Silty, light grey, 'fizzy'		
GS-C1-C	7/16/2007	6.78	1345	21.29	-61.9	0.13	Clear, colorless		
GS-C2-A	7/16/2007	7.06	1018	22.45	30.1	1.26	Slightly cloudy, light tan		X
GS-C2-B	7/16/2007	7.36	1094	22.67	-8.3	0.56	Slightly cloudy, light grey		X
GS-C2-C	7/16/2007	7.49	1338	21.97	-16.1	0.50	Slightly silty, grey		X
GS-C3-A	7/13/2007	7.56	845	23.50	50.0	0.88	Slightly cloudy, grey		
GS-C3-B	7/13/2007	7.33	706	22.38	19.9	0.86	Slightly cloudy, grey		
GS-C3-C	7/13/2007	7.49	887	23.31	17.1	0.24	Slightly cloudy, grey		
GS-C4-A	7/13/2007	6.95	802	21.20	32.2	0.89	Clear, grey tint		
GS-C4-B	7/13/2007	7.02	823	20.79	26.2	0.57	Slightly cloudy, grey tint		
GS-C4-C	7/13/2007	7.01	742	21.83	36.2	0.58	Slightly cloudy, grey		
GS-C5-A	7/12/2007	6.70	1349	23.36	-25.8	0.34	Slightly cloudy, grey, clearing		
GS-C5-B	7/12/2007	6.91	779	22.94	-65.3	0.29	Slightly silty, grey		
GS-C5-C	7/12/2007	6.91	685	23.53	-74.0	0.34	Slightly silty, grey		
GS-C6-A	7/12/2007	6.57	838	20.77	45.2	1.14	Clear, colorless		
GS-C6-B	7/12/2007	6.75	829	20.40	24.4	0.81	Slightly silty, light grey		
GS-C6-C	7/12/2007	6.90	831	21.11	15.5	0.76	Slightly cloudy, colorless		
GS-C7-A	7/11/2007	6.77	867	22.68	-57.4	0.36	Slightly cloudy, light grey		
GS-C7-B	7/11/2007	6.77	957	21.09	-65.5	0.71	Slightly cloudy, grey		
GS-C7-C	7/11/2007	6.84	929	24.17	-77.3	0.23	Slightly cloudy, light grey		
GS-C8-A	7/11/2007	6.52	909	21.17	-20.1	0.34	Slightly cloudy, grey		X
GS-C8-B	7/11/2007	6.70	1048	20.55	-36.3	0.69	Slightly cloudy, grey		
GS-C8-C	7/11/2007	6.87	819	20.66	-15.0	0.31	Slightly cloudy, light light grey		
GS-C9-A	7/10/2007	7.06	775	23.74	-42.3	0.21	Slightly cloudy, tan		
GS-C9-B	7/10/2007	7.23	860	22.59	-20.7	0.55	Slightly cloudy, light grey		
GS-C9-C	7/10/2007	7.13	2291	22.09	-22.2	0.29	Slightly cloudy, tan		
GS-D1-A	7/20/2007	7.30	872	21.52	112.6	0.91	Clear, colorless		
GS-D1-B	7/20/2007	7.55	867	20.77	81.8	0.59	Slightly silty, greyish		
GS-D1-C	7/20/2007	7.65	971	21.48	90.1	0.50	Slightly silty, greyish		
GS-D2-A	7/20/2007	7.62	1003	21.63	71.1	0.40	Clear, colorless		
GS-D2-B	7/20/2007	7.67	816	20.92	61.8	0.35	Cloudy		
GS-D2-C	7/20/2007	7.66	684	21.30	59.2	0.33	Slightly silty, greyish		
GS-D3-A	7/23/2007	6.80	1367	21.49	80.3	0.77	Clear, colorless		
GS-D3-B	7/23/2007	7.27	1503	23.06	57.7	0.64	Clear, colorless		
GS-D3-C	7/23/2007	7.17	1550	22.43	90.2	0.70	Cloudy, greyish		
GS-D4-A	7/23/2007	7.36	1270	25.02	75.7	0.52	Cloudy, grey tint		
GS-D4-B	7/23/2007	7.22	2004	24.77	85.0	0.29	Slightly silty, greyish		
GS-D4-C	7/23/2007	7.07	2148	21.93	105.2	0.67	Slightly silty, greyish		
GS-D5-A	7/24/2007	7.44	776	21.35	63.7	0.67	Clear, colorless		
GS-D5-B	7/24/2007	7.50	2138	20.73	41.5	0.30	Slightly silty, greyish		
GS-D5-C	7/24/2007	7.64	2600	20.99	36.8	0.21	Cloudy, greyish		
River (38' below surface)	7/5/2007	6.70	119	20.42	3.9	10.64			
River (20' below surface)	7/9/2007	7.20	104	22.10	54.1	8.01			
River (48' below surface)	7/13/2007	8.02	110	22.40	-12.4	7.20			
River	7/19/2007	8.13	132	23.54	-72.1	6.65			

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Table 2
Groundwater Chemistry Data
Phase 2 Investigation
Gasco/Siltronic
Portland, Oregon

DRAFT UNVALIDATED DATA - SUBJECT TO CHANGE

	Location ID	GS-B1	GS-B1	GS-B1	GS-B2	GS-B2	GS-B2	GS-B2	GS-B3	GS-B3	GS-B3	GS-B4	GS-B4	GS-B4	GS-B5	GS-B5	GS-B5
	Sample ID	GS-B1-A	GS-B1-B	GS-B1-C	GS-B2-A1	GS-B2-A2	GS-B2-B	GS-B2-C	GS-B3-A	GS-B3-B	GS-B3-C	GS-B4-A	GS-B4-B	GS-B4-C	GS-B5-A	GS-B5-B	GS-B5-C
	Sample Date	7/17/2007	7/17/2007	7/17/2007	7/17/2007	7/17/2007	7/17/2007	7/17/2007	7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/19/2007	7/18/2007	7/18/2007	7/18/2007
	Depth Below Mudline	0.9 to 1.9	4.9 to 6.9	12.9 to 14.9	1.5 to 2.5	4.5 to 5.5	8.5 to 10.5	16.5 to 18.5	1 to 2	5 to 7	13 to 15	1 to 2	5 to 7	13 to 15	1.6 to 2.6	5.6 to 7.6	13.6 to 15.6
	Screen Elevation	-28.2 to -29.2	-32.2 to -34.2	-40.2 to -42.2	-32.7 to -33.7	-35.7 to -36.7	-39.7 to -41.7	-47.7 to -49.7	-36.6 to -37.6	-40.6 to -42.6	-48.6 to -50.6	-34.1 to -35.1	-38.1 to -40.1	-46.1 to -48.1	-31.3 to -32.3	-35.3 to -37.3	-43.3 to -45.3
	Sample Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Chemical Name	**Unit**																
Conventionals																	
Total Cyanide	mg/l	**1.21**	**0.26**	**0.64**	**2.74**	**2.07**	**0.35**	**0.59**	**0.45**	**0.1**	**0.21**	**0.23**	**0.3**	**0.1**	**0.08**	**0.1**	**0.45**
Amenable cyanide	mg/l	**0.28**	**0.05**	**0.03**	0.01 U	0.01 U	**0.35**	**0.11**	0.01 U	0.01 U	0.01 U	**0.04**	0.01 U	0.01 U	**0.02**	0.01 U	**0.02**
Cyanide Free	mg/l	0.01 U	0.01 U	**0.006 J**	**0.023**	**0.026**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
VOC																	
1,1,1,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,2,3-Trichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.24 J**	0.50 U	0.50 U	**0.32**	1 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4 U	2.0 U	2.0 U
1,2-Dibromoethane	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
2-Butanone (MEK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**36**	20 U	20 U	20 U	20 U	40 U	20 U	20 U
2-Chloroethylvinylether	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U
2-Hexanone	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U
4-Methyl-2-pentanone (MIBK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U
Acetone	ug/l	20 U	20 U	20 U	20 U	**4.2 J**	20 U	20 U	20 U	**11 J**	20 U	20 U	20 U	20 U	40 U	20 U	20 U
Acrolein	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	40 U	20 U	20 U
Acrylonitrile	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Benzene	ug/l	**0.20 J**	**0.26 J**	0.50 U	**8.8**	**5.7**	0.50 U	0.50 U	0.50 U	**0.36 J**	0.50 U	0.50 U	**54 D**	0.50 U	**2.2 D**	**2.0**	**0.62**
Bromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Bromodichloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Bromoform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Bromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Carbon disulfide	ug/l	**0.25 J**	**0.18 J**	**0.22 J**	0.50 U	**0.17 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Carbon tetrachloride	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Chlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.17 J**	0.50 U	**0.3 JD**	**0.17 J**	0.50 U
Chloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Chloroform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Chloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.28 J**	0.50 U	0.50 U	0.50 U	**0.34 J**	**0.28 J**	**0.33**	**0.46 JD**	0.50 U	**1.1**
cis-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Dibromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Dibromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Dichloromethane	ug/l																
Ethylbenzene	ug/l	0.50 U	0.50 U	0.50 U	**33**	**22**	**0.29 J**	**0.45 J**	0.50 U	**0.28 J**	0.50 U	0.50 U	**36**	0.50 U	**11 D**	**7.7**	**2.1**
Hexachlorobutadiene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4 U	2.0 U	2.0 U
Iodomethane	ug/l	**4.9 J**	**4.9 J**	**4.8 J**	**4.8 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Isopropylbenzene	ug/l	**0.22 J**	**0.12 J**	0.5 U	**2.9**	**2.1**	0.5 U	0.5 U	0.5 U	**0.74 J**	0.5 U	**0.57 J**	**18**	0.5 U	**5.7 D**	**6.2**	**4.2**
Methylene Chloride	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4 U	2.0 U	2.0 U
Methyl tert-butylether	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Naphthalene	ug/l	**0.66 J**	**1 J**	2 U	**100 D**	**94 D**	**1.1 J**	**11**	2 U	**0.45 J**	2 U	**6**	**53**	**0.67**	**1800 D**	**81 D**	**9.4**
Styrene	ug/l	0.50 U	0.50 U	0.50 U	**0.18 J**	**0.13 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Tetrachloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Trichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Toluene	ug/l	**18**	**15**	**1.6**	**14**	**41**	**2.7**	**2.6**	**0.79**	**16**	**0.68**	**0.88**	**6.3**	**4.4**	**22 D**	**100 D**	**5.7**
trans-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
trans-1,4-Dichloro-2-butene	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U
Trichlorofluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
Vinyl acetate	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Vinyl chloride	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1 U	0.50 U	0.50 U
m,p-Xylenes	ug/l	0.50 U	**0.27 J**	0.50 U	**1.2**	**0.92**	0.50 U	0.50 U	0.50 U	**0.44 J**	0.50 U	0.50 U	**3.10**	0.50 U	**2.9 D**	**1.1**	**0.58**
o-Xylene	ug/l	**0.14 J**	**0.17 J**	0.5 U	**2.9**	**1.7**	**0.13 J**	**0.12 J**	0.5 U	**0.71**	**0.22 J**	**0.12 J**	**18**	0.5 U	**8.1 D**	**2.8**	**2.5**

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Table 2
Groundwater Chemistry Data
Phase 2 Investigation
Gasco/Siltronic
Portland, Oregon

DRAFT UNVALIDATED DATA - SUBJECT TO CHANGE

	Location ID	GS-B6	GS-B6	GS-B6	GS-B7	GS-B7	GS-B7	GS-B8	GS-B8	GS-B8	GS-B9	GS-B9	GS-B9
	Sample ID	GS-B6-A	GS-B6-B	GS-B6-C	GS-B7-A	GS-B7-B	GS-B7-C	GS-B8-A	GS-B8-B	GS-B8-C	GS-B9-A	GS-B9-B	GS-B9-C
	Sample Date	7/6/2007	7/6/2007	7/6/2007	7/5/2007	7/5/2007	7/5/2007	7/9/2007	7/9/2007	7/9/2007	7/9/2007	7/9/2007	7/9/2007
	Depth Below Mudline	1 to 2	5 to 7	13 to 15	1 to 2	5 to 7	13 to 15	1 to 2	5 to 7	13 to 15	1.5 to 2.5	5 to 7	14.9 to 16.9
	Screen Elevation	-34.3 to -35.3	-38.3 to -40.3	-46.3 to -48.3	-32.5 to -33.5	-36.5 to -38.5	-44.5 to -46.5	-31.5 to - 32.5	-35.5 to -37.5	-43.5 to -45.5	-32.6 to -33.6	-36.1 to -38.1	-46.0 to -48.0
	Sample Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Chemical Name	**Unit**												
Conventionals													
Total Cyanide	mg/l	**0.06**	**0.08**	**0.22**	**0.10**	0.01 U	**0.007 J**	**0.02**	**0.11**	**0.55**	**0.03**	**0.04**	**0.25**
Amenable cyanide	mg/l	0.01 U	0.01 U	**0.08**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.07**	0.01 U	0.01 U	0.01 U
Cyanide Free	mg/l	0.01 U	**0.008 J**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
VOC													
1,1,1,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.33 J**	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (MEK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-Chloroethylvinylether	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-pentanone (MIBK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acetone	ug/l	**5.6 J**	**6.1 J**	20 U	20 U	**6.1 J**	**5.2 J**	**7.6 J**	**5.5 J**	20 U	**5.6 J**	20 U	20 U
Acrolein	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acrylonitrile	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/l	0.50 U	**1.8**	0.50 U	**0.15 J**	**7.8**	**170 D**	**1.1**	**0.24 J**	**0.27 J**	0.50 U	**0.54**	0.50 U
Bromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	**0.26 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.26 J**	0.50 U	**0.22 J**	**0.20 J**	0.50 U	**0.17 J**
cis-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**11**	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichloromethane	ug/l												
Ethylbenzene	ug/l	0.50 U	**1.0**	0.50 U	0.50 U	**0.69**	**16**	0.50 U	0.50 U	0.50 U	0.50 U	**1.7**	0.50 U
Hexachlorobutadiene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Iodomethane	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**2.7 J**	5.0 U	**2.7 J**
Isopropylbenzene	ug/l	**0.76 J**	**1.3 J**	2.0 U	**2.0 J**	1.0 U	**1.6 J**	2.0 U	**0.11 J**	2.0 U	2.0 U	**1.2 J**	2.0 U
Methylene Chloride	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	**1.7 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butylether	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	ug/l	**6.6**	**22**	**0.57 J**	**0.44 J**	**54**	**750 D**	**1.7 J**	2.0 U	2.0 U	2.0 U	**25**	2.0 U
Styrene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/l	**0.12 J**	**0.14 J**	0.50 U	**0.16 J**	**0.57**	**32**	**130 D**	**26**	**1.9**	**1.5**	**50**	**2.4**
trans-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,4-Dichloro-2-butene	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl acetate	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**4.9**	0.50 U	0.50 U	**0.29 J**
m,p-Xylenes	ug/l	0.50 U	**0.55**	0.50 U	**0.32 J**	**0.49 J**	**17**	0.50 U	0.50 U	0.50 U	0.50 U	**0.33 J**	0.50 U
o-Xylene	ug/l	**0.15 J**	**0.99**	0.50 U	**0.55**	**0.47 J**	**9.4**	0.50 U	**0.11 J**	0.50 U	0.50 U	**0.64**	0.50 U

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Table 2
Groundwater Chemistry Data
Phase 2 Investigation
Gasco/Siltronic
Portland, Oregon

DRAFT UNVALIDATED DATA - SUBJECT TO CHANGE

	Location ID	GS-C1	GS-C1	GS-C1	GS-C2	GS-C2	GS-C2	GS-C2	GS-C3	GS-C3	GS-C3	GS-C4	GS-C4	GS-C4
	Sample ID	GS-C1-A	GS-C1-B	GS-C1-C	GS-C2-A	GS-C2-B	GS-C2-C	GS-C2-C Dup	GS-C3-A	GS-C3-B	GS-C3-C	GS-C4-A	GS-C4-B	GS-C4-C
	Sample Date	7/16/2007	7/16/2007	7/16/2007	7/16/2007	7/16/2007	7/16/2007	7/16/2007	7/13/2007	7/13/2007	7/13/2007	7/13/2007	7/13/2007	7/13/2007
	Depth Below Mudline	1.7 to 2.7	5.7 to 7.7	13.7 to 15.7	2.4 to 3.4	5.4 to 7.4	13.4 to 15.4	13.4 to 15.4	1 to 2	5 to 7	13 to 15	1 to 2	5 to 7	13 to 15
	Screen Elevation	-51.8 to -52.8	-55.8 to -57.8	-63.8 to -65.8	-44.8 to -45.8	-47.8 to -49.8	-55.8 to -57.8	-55.8 to -57.8	-46.4 to -47.4	-50.4 to -52.4	-58.4 to -60.4	-45.9 to -46.9	-49.9 to -51.9	-57.9 to -59.9
	Sample Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Chemical Name	**Unit**													
Conventionals														
Total Cyanide	mg/l	**0.2**	**0.06**	**0.39**	**0.03**	**0.01**	**0.04**	**0.04**	**0.01**	**0.02**	**0.03**	**0.06**	**0.02**	**0.01**
Amenable cyanide	mg/l	0.01 U	0.06	**0.01**	**0.01**	**0.01**	**0.04**	**0.04**	**0.01**	0.01 U	**0.02**	**0.03**	**0.01**	**0.01**
Cyanide Free	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
VOC														
1,1,1,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/l	**0.16 J**	**1.5**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/l	0.50 U	**0.22 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/l	**0.15 J**	**1.7**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (MEK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-Chloroethylvinylether	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-pentanone (MIBK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acetone	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acrolein	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acrylonitrile	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/l	**0.42 J**	**11**	**3.6**	**1.6**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.29 J**	0.50 U	0.50 U
Bromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	**0.29 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/l	**1.4**	**14**	0.50 U	**9.10**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/l	**0.45 J**	**0.18 J**	**0.38 J**	**1.1**	0.50 U	0.50 U	**0.16 J**	0.50 U	0.50 U	0.50 U	0.50 U	**0.99**	**0.99**
cis-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichloromethane	ug/l													
Ethylbenzene	ug/l	0.50 U	**5.5**	**1.4**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**3.50**	0.50 U	0.50 U
Hexachlorobutadiene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U						
Iodomethane	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/l	**0.39 J**	**4.5**	**29**	**4.1**	0.5 U	**0.11 J**	**0.11 J**	0.5 U	**1.2 J**	0.5 U	**0.78**	0.5 U	0.5 U
Methylene Chloride	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butylether	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Naphthalene	ug/l	**1 J**	**430 D**	**8.6**	**35**	**0.54 J**	**28**	**29**	**0.65 J**	**1.8 J**	2 U	**330 D**	**1 J**	**1.3 J**
Styrene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/l	**6.6**	**20**	**1.5**	**1.1**	**4.3**	**10**	**11**	**8.6**	**4.3**	**5.4**	**0.44 J**	**0.31 J**	**3.2**
trans-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,4-Dichloro-2-butene	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl acetate	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/l	**0.11 J**	**0.17 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-Xylenes	ug/l	**0.44 J**	**1.7**	**0.94**	**0.66**	0.50 U	0.50 U	0.50 U	0.50 U	**0.29 J**	**0.23 J**	**0.41 J**	0.50 U	0.50 U
o-Xylene	ug/l	**0.32 J**	**6.0**	**4.6**	**3.1**	0.5 U	0.5 U	0.5 U	0.5 U	**0.22 J**	**0.11 J**	**1.1**	0.5 U	0.5 U

DRAFT

Table 2
Groundwater Chemistry Data
Phase 2 Investigation
Gasco/Siltronic
Portland, Oregon

DRAFT UNVALIDATED DATA - SUBJECT TO CHANGE

	Location ID	GS-C5	GS-C5	GS-C5	GS-C6	GS-C6	GS-C6	GS-C7	GS-C7	GS-C7	GS-C8	GS-C8	GS-C8	GS-C9	GS-C9	GS-C9	GS-C9
	Sample ID	GS-C5-A	GS-C5-B	GS-C5-C	GS-C6-A	GS-C6-B	GS-C6-C	GS-C7-A	GS-C7-B	GS-C7-C	GS-C8-A	GS-C8-B	GS-C8-C	GS-C9-A	GS-C9-B	GS-C9-C	GS-C9-C Dup
	Sample Date	7/12/2007	7/12/2007	7/12/2007	7/12/2007	7/12/2007	7/12/2007	7/11/2007	7/11/2007	7/11/2007	7/11/2007	7/11/2007	7/11/2007	7/10/2007	7/10/2007	7/10/2007	7/10/2007
	Depth Below Mudline	1 to 2	5 to 7	13 to 15	1.1 to 2.1	5.3 to 7.3	13.3 to 15.3	1 to 2	5 to 7	13 to 15	1.2 to 2.2	5.2 to 7.2	13.2 to 15.2	1 to 2	5 to 7	13 to 15	13 to 15
	Screen Elevation	-46.0 to -47.0	-50.0 to -52.0	-58.0 to -60.0	-45.5 to -46.5	-49.7 to -51.7	-57.7 to -59.7	-46.6 to -47.6	-50.6 to -52.6	-58.6 to -60.6	-45.5 to -46.5	-49.5 to -51.5	-57.5 to -59.5	-42.9 to -43.9	-46.9 to -48.9	-54.9 to -56.9	-54.9 to -56.9
	Sample Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Chemical Name	**Unit**																
Conventionals																	
Total Cyanide	mg/l	**0.19**	**0.21**	**0.12**	**0.18**	**0.15**	**0.15**	**0.35**	**0.41**	**0.41**	**0.26**	**0.51**	**0.06**	**0.02**	**0.008 J**	0.01 U	0.01 U
Amenable cyanide	mg/l	0.01 U	**0.06**	**0.03**	**0.05**	**0.02**	**0.03**	**0.02**	**0.02**	**0.11**	0.01 U	**0.05**	**0.01**	0.01 U	0.01 U	0.01 U	0.01 U
Cyanide Free	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
VOC																	
1,1,1,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.68 JD**	**27 D**	**0.68**	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	**0.18 J**	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone (MEK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50.0 U	1000 U	20 U	20 U	20 U	20 U	20 U
2-Chloroethylvinylether	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	12.5 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50.0 U	1000 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-pentanone (MIBK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50.0 U	1000 U	20 U	20 U	20 U	20 U	20 U
Acetone	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50.0 U	1000 U	20 U	20 U	20 U	20 U	20 U
Acrolein	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50.0 U	1000 U	20 U	20 U	20 U	20 U	20 U
Acrylonitrile	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	12.5 U	250 U	5.0 U	**1.5 J**	**1.4 J**	5.0 U	5.0 U
Benzene	ug/l	**0.22 J**	**0.22 J**	0.50 U	0.50 U	0.50 U	0.50 U	**0.34 J**	0.50 U	0.50 U	**36 D**	**44 D**	**1.8**	**0.16 J**	**0.77**	0.50 U	0.50 U
Bromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon disulfide	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/l	**1.1**	**0.26 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	**0.58**	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**230.0 D**	**11000 D**	**240 D**	**0.41 J**	**0.57**	**0.16 J**	**0.16 J**
cis-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dichloromethane	ug/l																
Ethylbenzene	ug/l	0.50 U	**3.0**	0.50 U	0.50 U	0.50 U	0.50 U	**0.52**	0.50 U	0.50 U	**13 D**	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Hexachlorobutadiene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	5.0 U	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Iodomethane	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	12.5 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/l	**3.3**	**5.1**	2.0 U	**0.42 J**	2.0 U	2.0 U	**1.8 J**	**1.9 J**	**1.9 J**	**5.0 JD**	25 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U
Methylene Chloride	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**0.63 JD**	**14 JD**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Methyl tert-butylether	ug/l	0.50 U	0.50 U	**0.34 J**	0.50 U	**0.29 J**	**0.34 J**	0.50 U	0.50 U	0.50 U	1.3 U	25 U	**3.0**	**17**	**16**	**0.29 J**	**0.31 J**
Naphthalene	ug/l	**1.3 J**	**5.0**	2.0 U	2.0 U	2.0 U	2.0 U	**85 D**	2 U	**0.71 J**	**8.0 D**	100 U	2 U	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	**7 JD**	**1.3**	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/l	**0.86**	**0.65**	**5.3**	**0.64**	**3.4**	**1.5**	**0.22 J**	**0.17 J**	**0.48 J**	**6.6 D**	25 U	**0.74**	**23**	**5.7**	**2.7**	**2.7**
trans-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.70 JD**	**18 JD**	**1.0**	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,4-Dichloro-2-butene	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25.0 U	500 U	10 U	10 U	10 U	10 U	10 U
Trichlorofluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.3 U	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl acetate	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	12.5 U	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/l	**0.070 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.12 J**	0.50 U	0.50 U	**780 D**	**7600 D**	**91 D**	**0.050 J**	**0.080 J**	**0.22 J**	**0.24 J**
m,p-Xylenes	ug/l	**0.61**	**1.0**	0.50 U	0.50 U	0.50 U	0.50 U	**0.32 J**	0.50 U	**1.90**	**0.7 JD**	25 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/l	**1.4**	**6.3**	0.50 U	0.50 U	0.50 U	0.50 U	**0.42 J**	**0.39 J**	**4.1**	**2.7 D**	25 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U

DRAFT

Table 2
Groundwater Chemistry Data
Phase 2 Investigation
Gasco/Siltronic
Portland, Oregon

DRAFT UNVALIDATED DATA - SUBJECT TO CHANGE

	Location ID	GS-D1	GS-D1	GS-D1	GS-D2	GS-D2	GS-D2	GS-D3	GS-D3	GS-D3	GS-D4	GS-D4	GS-D4	GS-D4	GS-D5	GS-D5	GS-D5
	Sample ID	GS-D1-A	GS-D1-B	GS-D1-C	GS-D2-A	GS-D2-B	GS-D2-C	GS-D3-A	GS-D3-B	GS-D3-C	GS-D4-A	GS-D4-B	GS-D4-C	GS-D4-C Dup	GS-D5-A	GS-D5-B	GS-D5-C
	Sample Date	7/20/2007	7/20/2007	7/20/2007	7/20/2007	7/20/2007	7/20/2007	7/23/2007	7/23/2007	7/23/2007	7/23/2007	7/23/2007	7/23/2007	7/23/2007	7/24/2007	7/24/2007	7/24/2007
	Depth Below Mudline	1 to 2	5 to 7	13 to 15	1 to 2	5 to 7	13 to 15	0.5 to 1.5	4.5 to 6.5	12.5 to 14.5	1 to 2	5 to 7	13 to 15	13 to 15	1 to 2	5 to 7	13 to 15
	Screen Elevation	-44.8 to -45.8	-48.8 to -50.8	-56.8 to -58.8	47.6 to -48.6	-51.6 to -53.6	-59.6 to -61.6	-49.4 to -50.4	-53.4 to -55.4	-61.4 to -63.4	-50.4 to -51.4	-54.4 to -56.4	-62.4 to -64.4	-62.4 to -64.4	-47.9 to -48.9	-51.9 to -53.9	-59.9 to -61.9
	Sample Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Chemical Name	**Unit**																
Conventionals																	
Total Cyanide	mg/l	**0.04**	**0.02**	**0.02**	**0.04**	**0.05**	**0.05**	**0.05**	**0.05**	**0.02**	**0.03**	**0.03**	**0.03**	**0.03**	0.01 U	0.01 U	**0.004 J**
Amenable cyanide	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	**0.03**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cyanide Free	mg/l	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
VOC																	
1,1,1,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,1,1-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,1,2-Trichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,2,3-Trichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,1-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,1-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,2,4-Trichlorobenzene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20.0 U
1,2-Dibromoethane	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20.0 U
1,2-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	**1.50**	**3.20**	**2.70**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,2-Dichloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,2-Dichloropropane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,3-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
1,4-Dichlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	**0.14 J**	**0.12 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
2-Butanone (MEK)	ug/l	20 U	20 U	**3 J**	20 U	**3.7 J**	**4.9 J**	20 U	20 U	**34**	20 U	20 U	20 U	20 U	20 U	20 U	200.0 U
2-Chloroethylvinylether	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50.0 U
2-Hexanone	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200.0 U
4-Methyl-2-pentanone (MIBK)	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200.0 U
Acetone	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200.0 U
Acrolein	ug/l	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	200.0 U
Acrylonitrile	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50.0 U
Benzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**17**	**14.0 D**
Bromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Bromodichloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Bromoform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Bromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Carbon disulfide	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Carbon tetrachloride	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Chlorobenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	**0.48 J**	**0.44 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.48 J**	5.0 U
Chloroethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Chloroform	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Chloromethane	ug/l	**0.59**	**1.50**	**0.97**	**0.40 J**	**0.30 J**	**0.30 J**	**0.33 J**	**1.10**	**0.65**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
cis-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.37 J**	**0.14 J**	0.50 U	**0.16 J**	0.50 U	0.50 U	5.0 U
cis-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Dibromochloromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Dibromomethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Dichlorodifluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Dichloromethane	ug/l																
Ethylbenzene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**26**	**110.0 D**
Hexachlorobutadiene	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20.0 U
Iodomethane	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50.0 U
Isopropylbenzene	ug/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.93 J**	**14**	**13.0 JD**
Methylene Chloride	ug/l	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20.0 U
Methyl tert-butylether	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Naphthalene	ug/l	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**0.68 J**	2 U	2 U	2 U	2 U	**42**	**1000.0 D**
Styrene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Tetrachloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Trichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Toluene	ug/l	**0.25 J**	**0.77**	**4.1**	**0.33 J**	**3.4**	**3.2**	**0.31**	**4.0**	**15**	**0.42 J**	**1.5**	**1.6**	**1.5**	**0.72**	**2.5**	**21 D**
trans-1,2-Dichloroethene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
trans-1,3-Dichloropropene	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
trans-1,4-Dichloro-2-butene	ug/l	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100.0 U
Trichlorofluoromethane	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
Vinyl acetate	ug/l	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	50.0 U
Vinyl chloride	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U
m,p-Xylenes	ug/l	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.24**	0.50 U	0.50 U	0.50 U	0.50 U	**0.23 J**	**3.0**	**11.0 D**
o-Xylene	ug/l	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.31 J**	**5.2**	**21.0 D**

FIGURES

ANCHOR ENVIRONMENTAL, L.L.C.

0 175
Scale in Feet
1 inch equals 175 feet

DRAFT UNVALIDATED DATA - SUBJECT TO CHANGE
Work Product Prepared in Anticipation of Litigation
July 2007 Phase 2 Investigation

Free Cyanide (mg/l) in groundwater

Figure 1
Free Cyanide (mg/l)
NW Natural - Gasco Site
Portland, Oregon

J:\Jobs\0000029.02_Gasco\Maps\2007_07\FIG_1_free_CN.mxd EI 08/03/2007 4:28 PM

ANCHOR ENVIRONMENTAL, L.L.C.

0 175
Scale in Feet
1 inch equals 175 feet

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Work Product Prepared in Anticipation of Litigation
July 2007 Phase 2 Investigation

Amenable Cyanide (mg/l) in groundwater

Figure 2
Amenable Cyanide (mg/l)
NW Natural - Gasco Site
Portland, Oregon

J:\Jobs\000029.02_GascoMaps\2007_07\FIG_2_amenable_CN.mxd EI 08/03/2007 4:54 PM

J:\Jobs\0000029.02 Gasco\Maps\2007 07\FIG 3 total CN.mxd EI 08/03/2007 5:01 PM

ANCHOR ENVIRONMENTAL, L.L.C.

0 175
Scale in Feet
1 inch equals 175 feet

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Work Product Prepared in Anticipation of Litigation
July 2007 Phase 2 Investigation

Total Cyanide (mg/l)
in groundwater

Figure 3
Total Cyanide (mg/l)
NW Natural - Gasco Site
Portland, Oregon

ANCHOR ENVIRONMENTAL, L.L.C.

0 175
Scale in Feet

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July 2007 Phase 2 Investigation

Benzene (µg/l)
in groundwater

Figure 4
Benzene (µg/l)
NW Natural - Gasco Site
Portland, Oregon

J:\Jobs\000029.02 Gasco\Maps\2007 07\FIG 4 benzene.mxd EI 08/03/2007 4:56 PM

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ANCHOR ENVIRONMENTAL, L.L.C.

0 175
Scale in Feet
1 inch equals 175 feet

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Work Product Prepared in Anticipation of Litigation
July 2007 Phase 2 Investigation

Naphthalene (µg/l)
in groundwater

Figure 5
Naphthalene (µg/l)
NW Natural - Gasco Site
Portland, Oregon

J:\Jobs\000029-02_Gasco\Maps\2007_07\FIG_6_toluene.mxd EI 08/03/2007 4:57 PM

ANCHOR ENVIRONMENTAL, L.L.C.

0 175
Scale in Feet
1 inch equals 175 feet

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Work Product Prepared in Anticipation of Litigation
July 2007 Phase 2 Investigation

Toluene (µg/l) in groundwater

Figure 6
Toluene (µg/l)
NW Natural - Gasco Site
Portland, Oregon