APPENDIX C

Appendix C contains the Fugro Geosciences, Inc., report, dated October 6, 2005, presenting the CPT/ROST data and logs.

FUGRO GEOSCIENCES, INC.

13049 East Florence Avenue
Santa Fe Springs, CA 90670
Phone : 562-903-0055
Fax: 562-903-9005

October 6, 2004
Report Number: 0303-1090

Envirologic Resources, Inc.
15 82nd Drive
Suite 120
Gladstone, Oregon 97027

Attn.: Mr. Tom Calabrese

DATA REPORT
CONE PENETRATION AND
RAPID OPTICAL SCREENING TOOL TESTING
PORT OF ASTORIA, OREGON

Dear Mr. Calabrese:

Fugro Geosciences (Fugro) is pleased to present this data report for Cone Penetration (CPT) and Rapid Optical Screening Tool (ROST™) testing at the above-referenced site. CPT/ROST™ provided continuous characterization of stratigraphy and petroleum hydrocarbon distribution at the testing locations. A description of the CPT and ROST™ technologies and a discussion of general ROST™ data interpretation follows. CPT and ROST™ logs and electronic data CD are included as attachments.

Cone Penetration Testing

CPT was performed simultaneously with each ROST™ sounding and yielded real-time stratigraphic data. CPT is a proven method for rapidly evaluating the physical characteristics of unconsolidated soils. It is based on the resistance to penetration of an electronically-instrumented cone which is continuously advanced into the subsurface. In accordance with ASTM Standard D5778-95, the cone was advanced at a rate of two centimeters per second with the driving force provided by hydraulic rams.

The CPT cone used at this site had an apex angle of 60 degrees with a base area of 15 square centimeters (cm^2), and friction sleeve with a surface area of 200 cm^2. The standard geotechnical sensors within the cone measure tip resistance and sleeve friction in tons per square foot (TSF). The combined data from the tip resistance and sleeve friction form the basis of the soil classification (e.g., sand, silt, clay, etc.).

Soil stratigraphy was identified using Campanella and Robertson's Simplified Soil Behavior Chart. Please note that because of the empirical nature of the soil behavior chart, the soil identification should be verified locally.

ROST™ Testing

Fugro Geosciences' ROST™ Laser-Induced Fluorescence system was used for this investigation to screen soils for petroleum hydrocarbon materials containing aromatic hydrocarbon constituents. The system consists of a tunable laser mounted in the CPT truck that is connected to a down-hole sensor. The down-hole sensor consists of a small diameter sapphire window mounted flush with the side of the cone penetrometer probe.

The laser and associated equipment transmit 50 pulses of light per second to the sensor through a fiber optic cable. The wavelength of the pulsed excitation light is tunable and can be set to wavelengths of 266 nanometers (nm) or to wavelengths between 280 and 300 nm. An excitation wavelength of 290 nm was used for each test during this project.

The laser light passes through the sapphire window and is absorbed by aromatic hydrocarbon molecules in contact with the window, as the probe is advanced. This addition of energy (photons) to the aromatic hydrocarbons causes them to fluoresce. A portion of the fluorescence emitted from any encountered aromatic constituents is returned through the sapphire window and conveyed by a second fiber optic cable to a detection system within the CPT rig. The emission data resulting from the pulsed laser light is averaged into one reading per one second interval (approximately one reading per 2 cm vertical interval) and is recorded continuously. ROST™ may be operated in single or multi-wavelength mode, depending on project objectives. For this project, ROST™ was operated in multi-wavelength mode (MWL).

Multi-Wavelength Mode (MWL). In MWL mode, several characteristics of the emitted fluorescence are measured and recorded simultaneously at four (4) specific wavelengths (340, 390, 440, and 490 nm). These four wavelengths represent the spectrum of fluorescence typically produced by aromatic hydrocarbons ranging from light fuels through heavy contaminants such as coal tar and creosote. The recorded data is then presented as a color graph of fluorescence intensity (the combined fluorescence of all four monitored wavelengths) versus depth (FVD).

On the FVD graph, each of the four monitored wavelengths is assigned a color. These colors are combined based on the proportional fluorescence intensity of each of the individual wavelengths. The combined color is then used on the FVD graph. Changes in color on the FVD graph typically represent changes in product type. Similarly, like colors on the FVD graph typically represent the same product, regardless of the total fluorescence intensity. Changes in the total fluorescence intensity typically indicate changes in contaminant concentration, with higher fluorescence intensities representing proportionally higher concentrations when compared to lower fluorescence intensities.

In addition to the FVD graph, depth specific waveforms are presented at four (4) selected depths throughout the sounding. These waveform graphs are presented to the right of the FVD graph on each plot. In the waveform graphs, the fluorescence intensity and duration of fluorescence of each of the monitored wavelengths is represented by an individual peak, starting at 340 nm and increasing in 50 nm wavelengths as you move to the right. The intensity of each wavelength is represented by the height of the peaks, and the duration of fluorescence is represented by the width of each peak. For general interpretation purposes, lighter aromatic hydrocarbon molecules will emit fluorescence at the shorter wavelengths, and heavier, longer chained hydrocarbons will emit fluorescence at the longer wavelengths. The presented waveforms can be compared to waveforms typical of common hydrocarbon products to determine the likely product type that has been encountered. Please note that the waveforms are available at every two centimeter interval throughout the entire sounding. Additional waveforms can be generated at any time during or after testing is complete.

Reference Solution. The fluorescence intensity of a reference solution placed on the sapphire window was measured immediately prior to conducting each test. This reference solution measurement serves two purposes. First, as a quality control check, the solution is used to ensure that the performance of the system is within specifications. Second, it allows for normalization of the data from different test locations for variation in laser power, operating conditions, and monitored emission wavelength. The reference solution used for this project was the standard M1 reference, which is a proprietary PHC

containing solution. M1 provides consistent fluorescence response across the portion of the spectrum analyzed by ROST and therefore, allows the fluorescence data collected to be consistently normalized to intensities recorded as a percentage of M1.

LIMITATIONS OF ENVIRONMENTAL SUBSURFACE WORK

Fugro Geosciences' report is based upon our observations made during field work, the information provided to Fugro and the results of the ROST/CPT survey. Given the inherent limitation of environmental subsurface work, Fugro cannot guarantee that the site is free of hazardous or potentially hazardous materials or conditions or that latent or undiscovered conditions will not become evident in the future. Fugro's report was prepared in accordance with our proposal and the General Conditions agreed to between Fugro and Client and no warranties, representations, or certifications are made.

Fugro Geosciences, Inc. appreciates the opportunity to be of service to your organization. Please do not hesitate to contact us if we can be of further assistance. We look forward to working with you in the future.

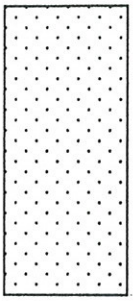
Sincerely,
FUGRO GEOSCIENCES, INC.

For
Recep Yilmaz
President

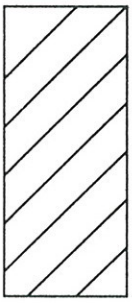
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Enclosure: - 1 CD

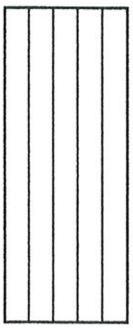
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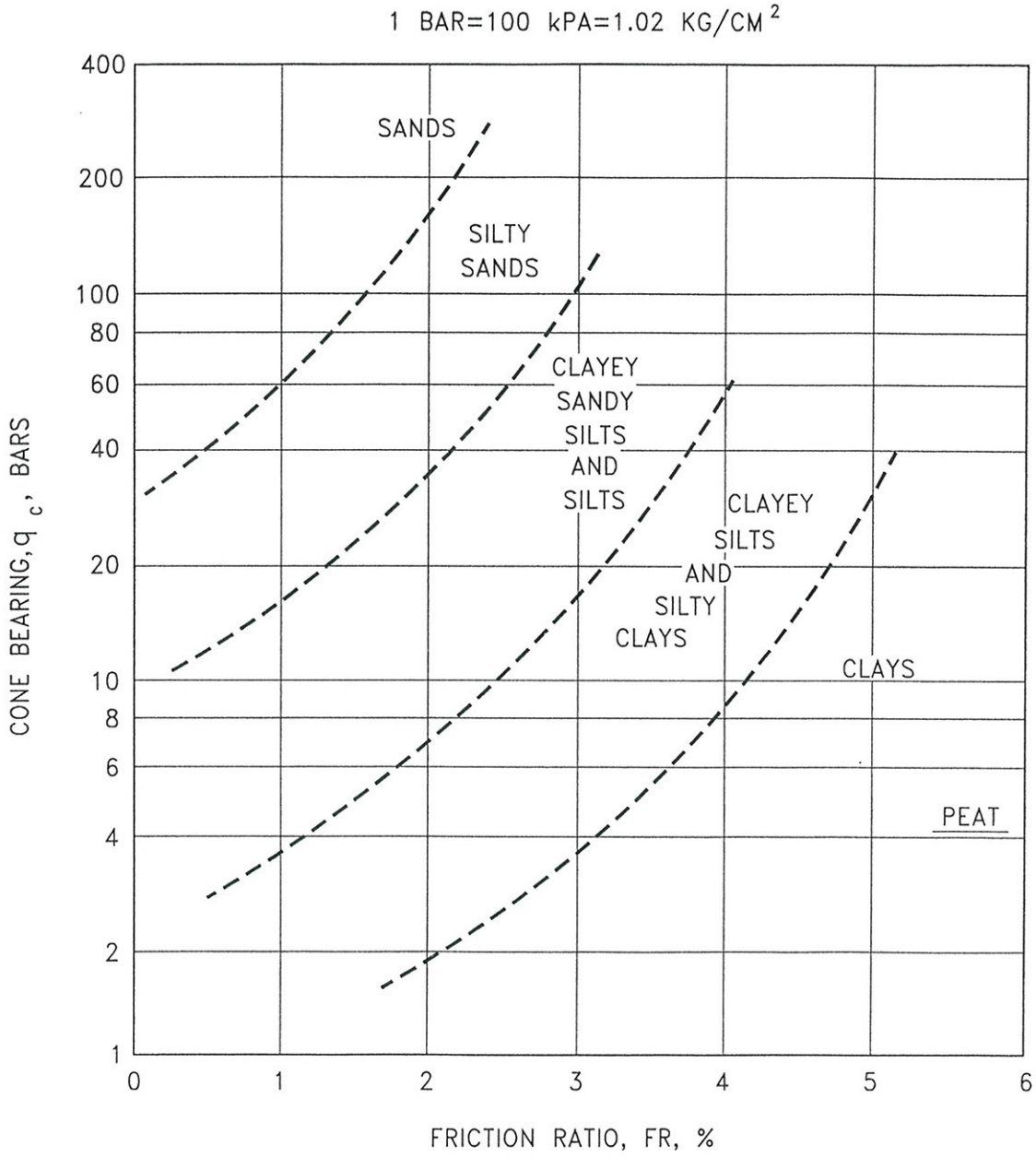
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CLAY AND CLAYEY SOIL

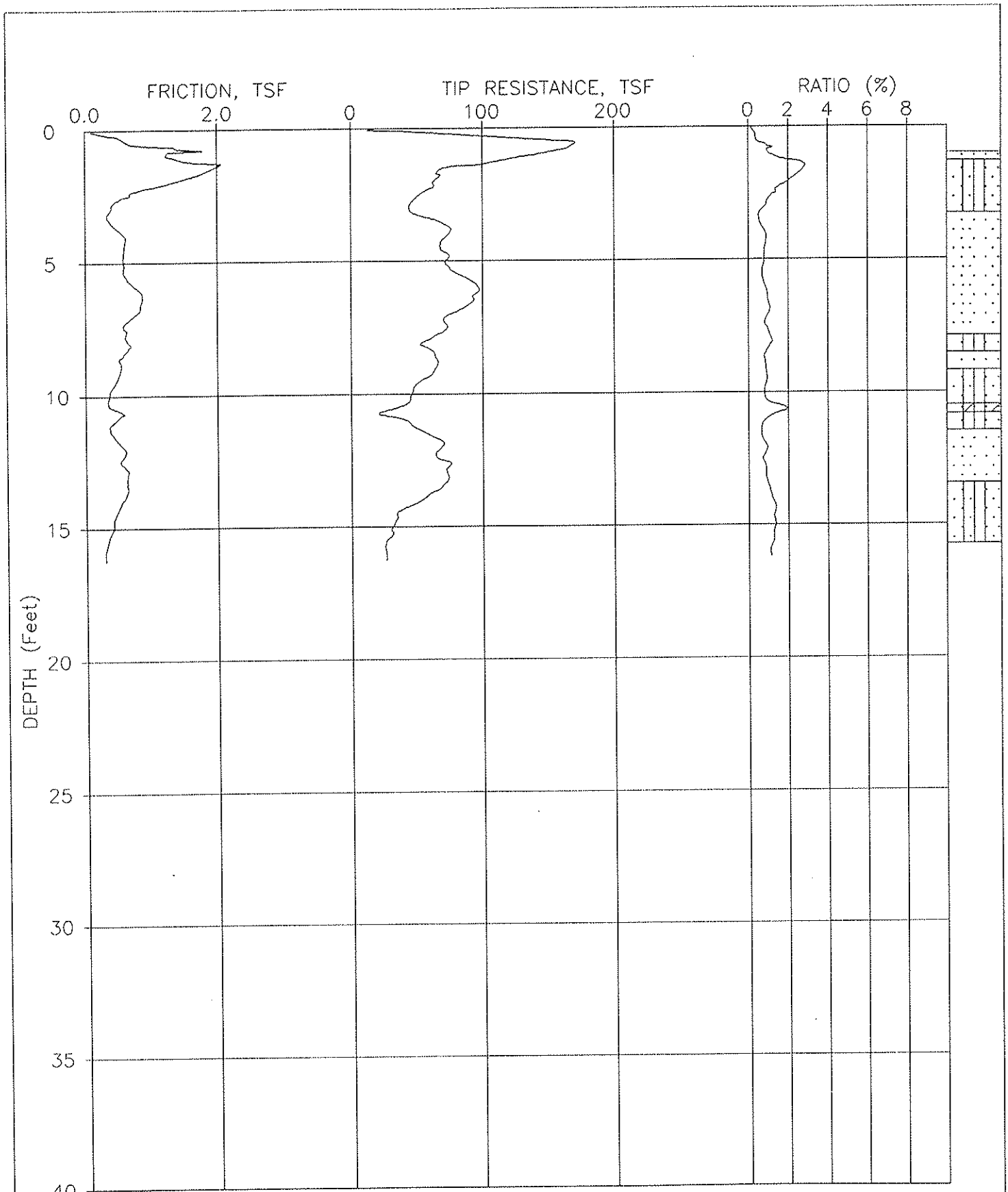


SILT AND SILTY SOIL



MODIFIED CAMPANELLA AND ROBERTSON SOIL BEHAVIOR CHART (1983)

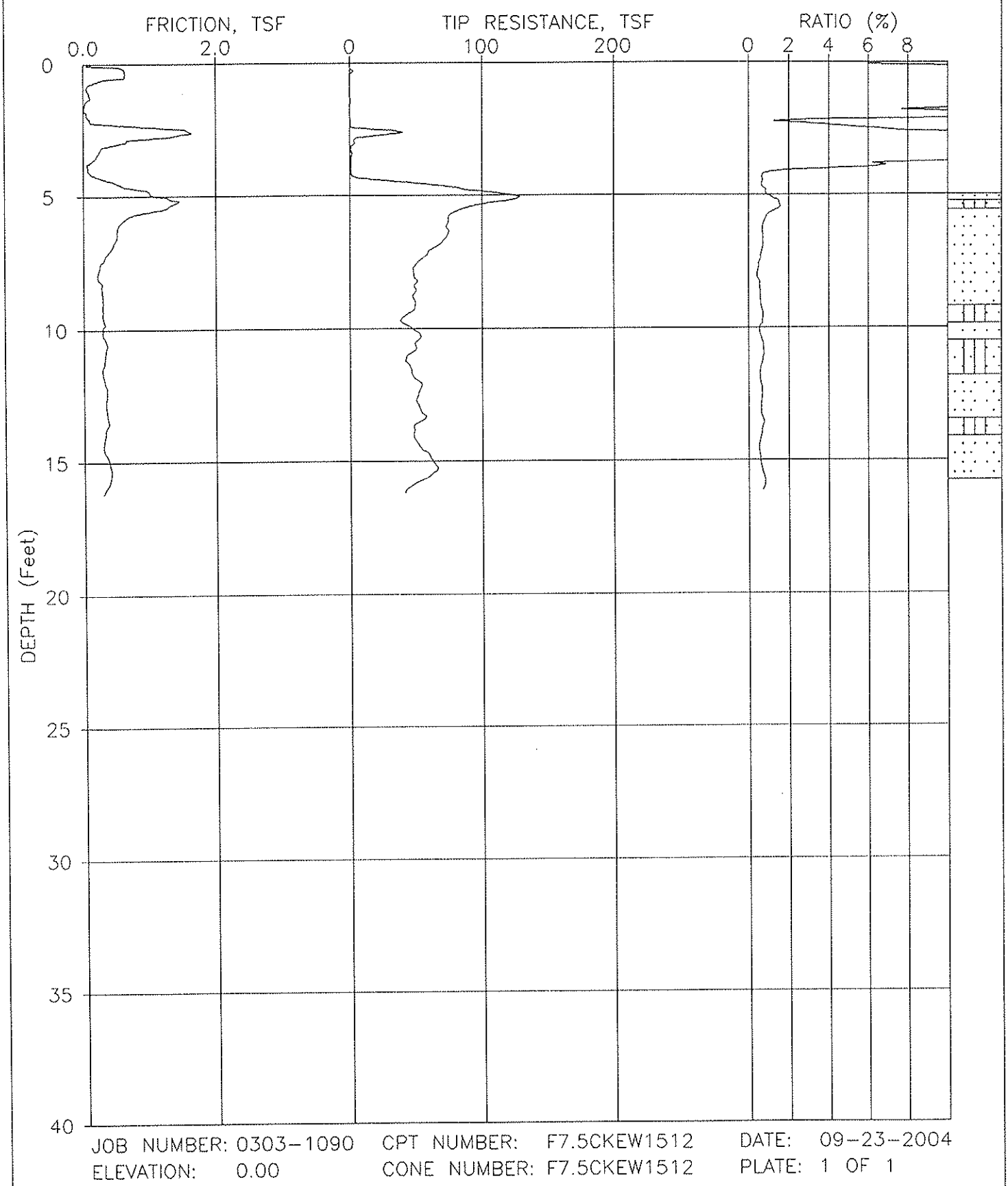
CPT LOGS



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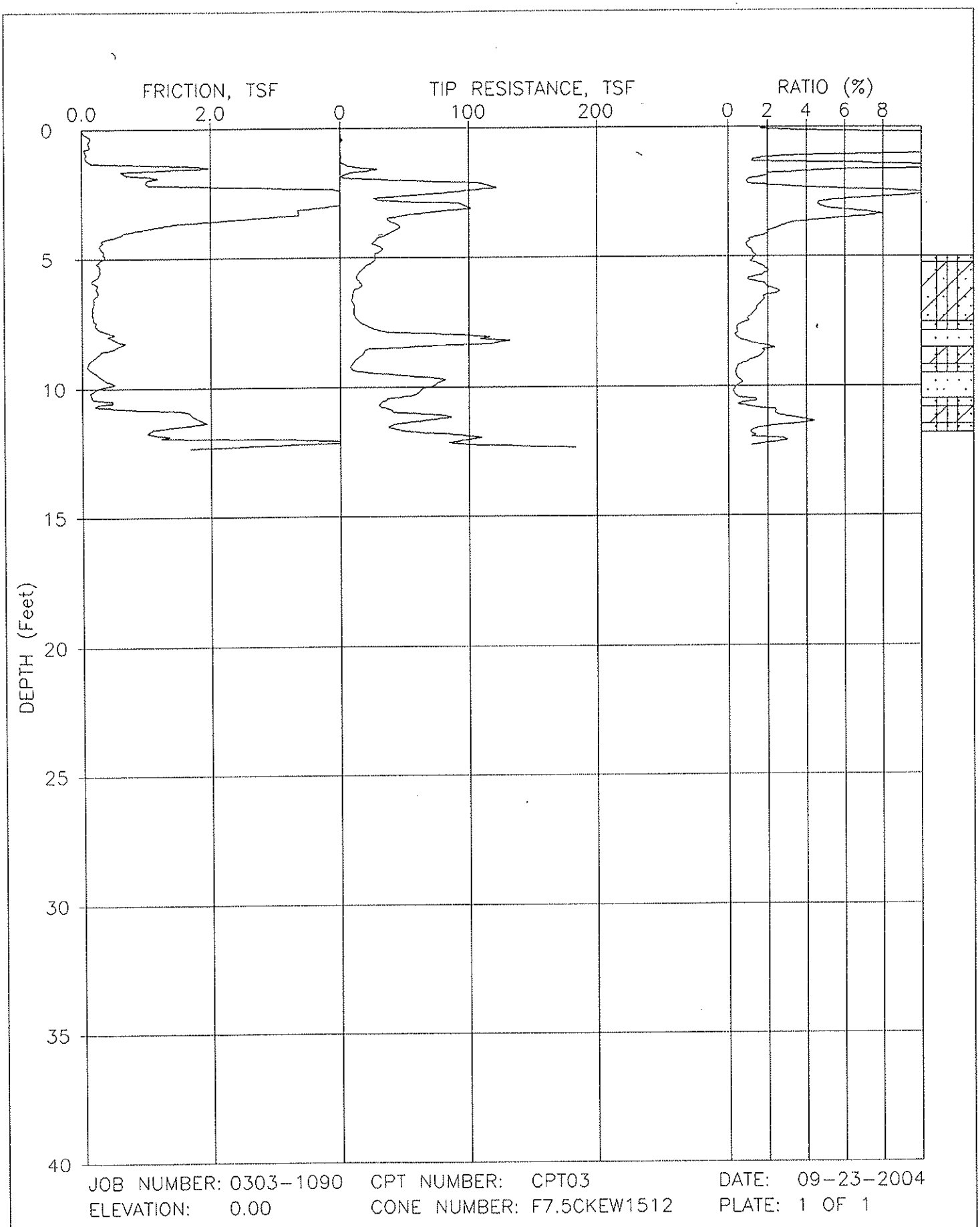
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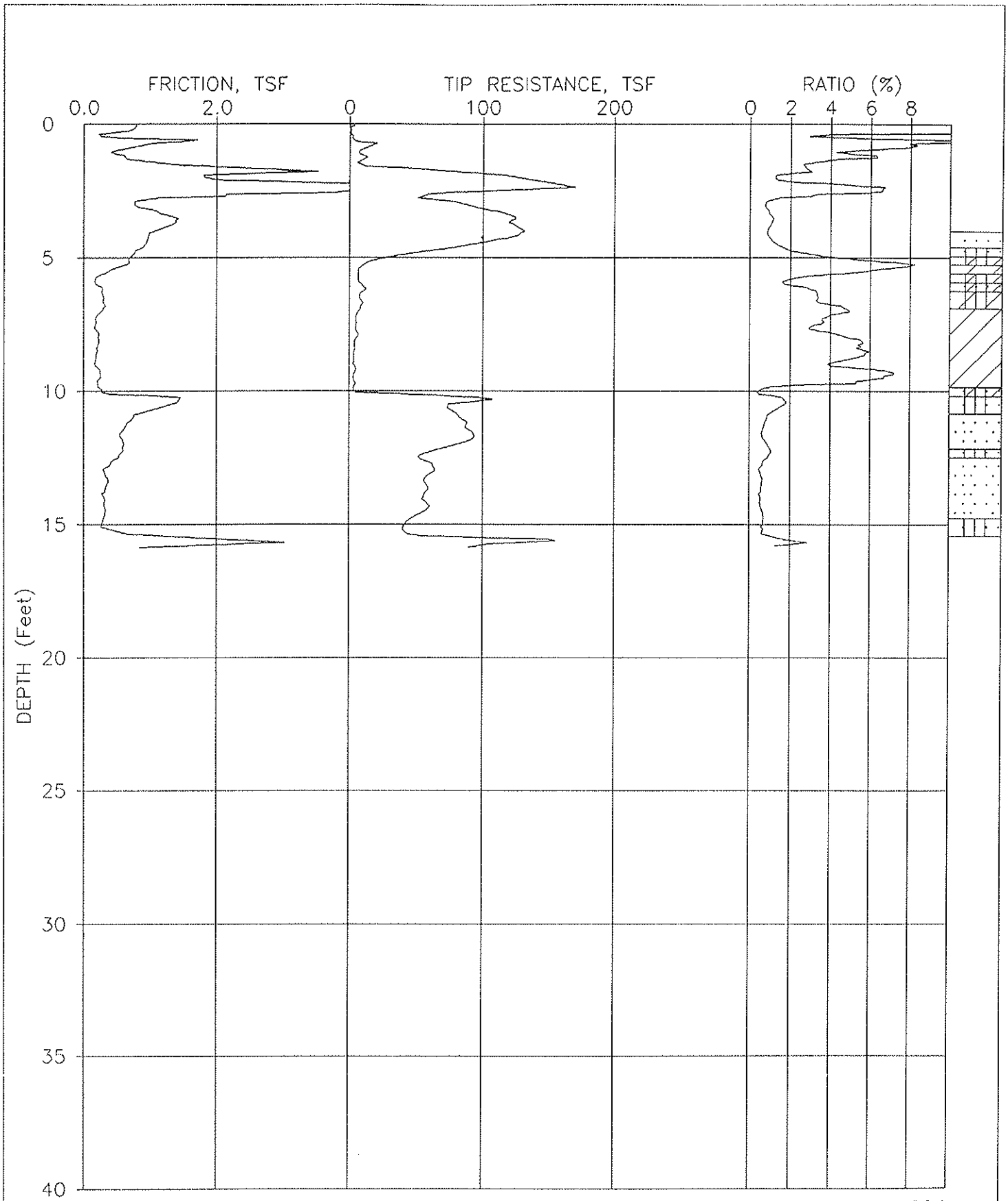
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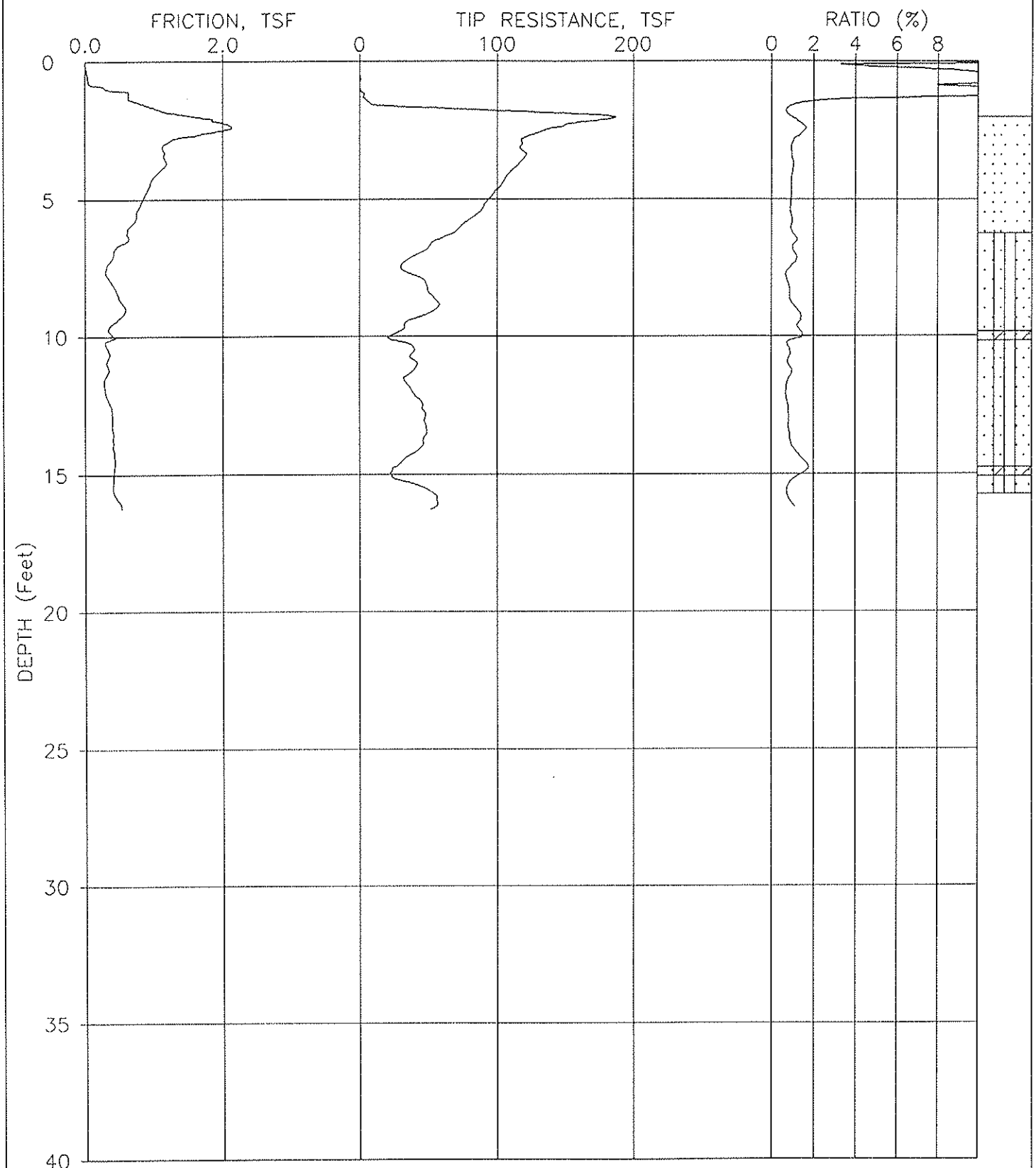
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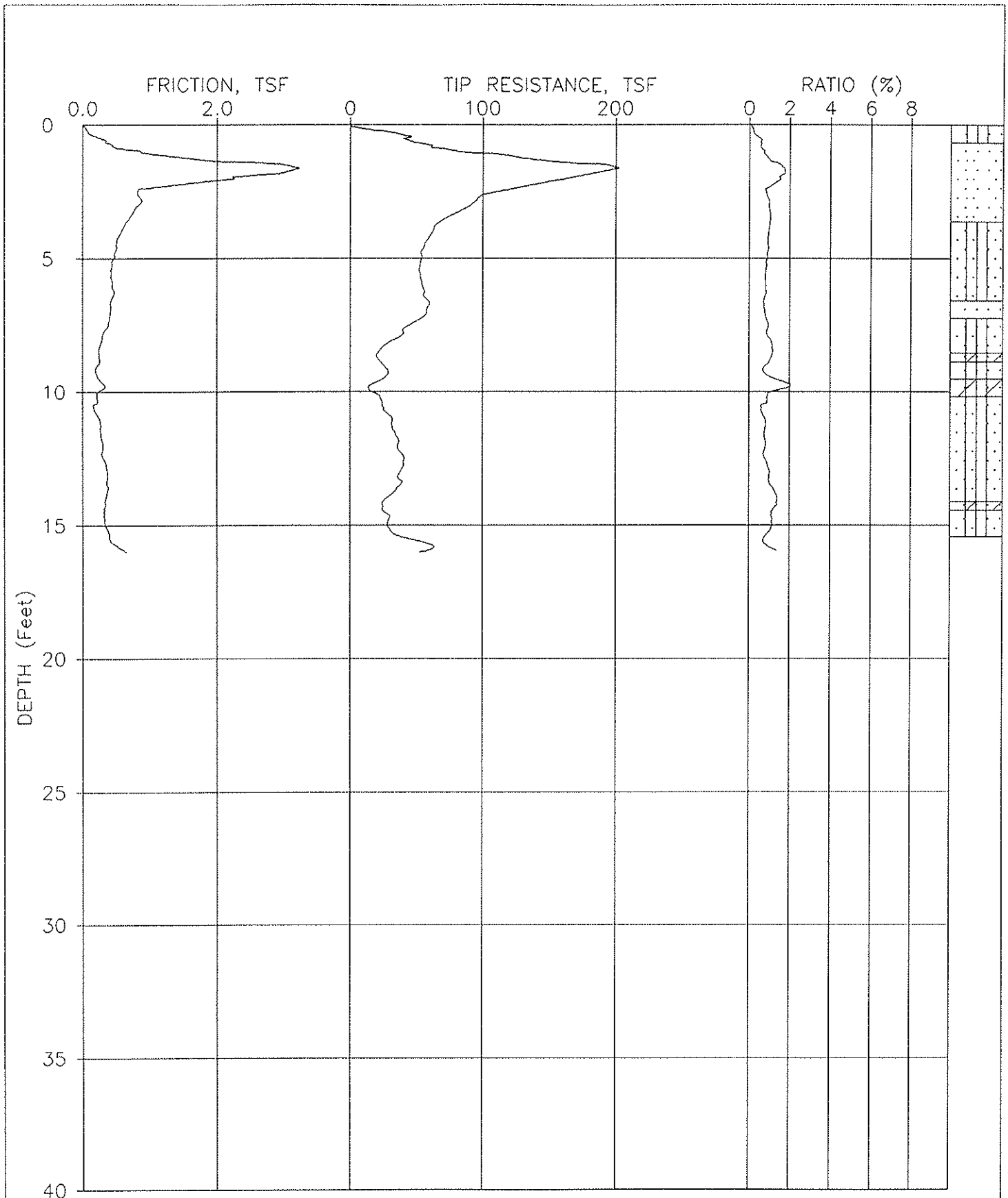
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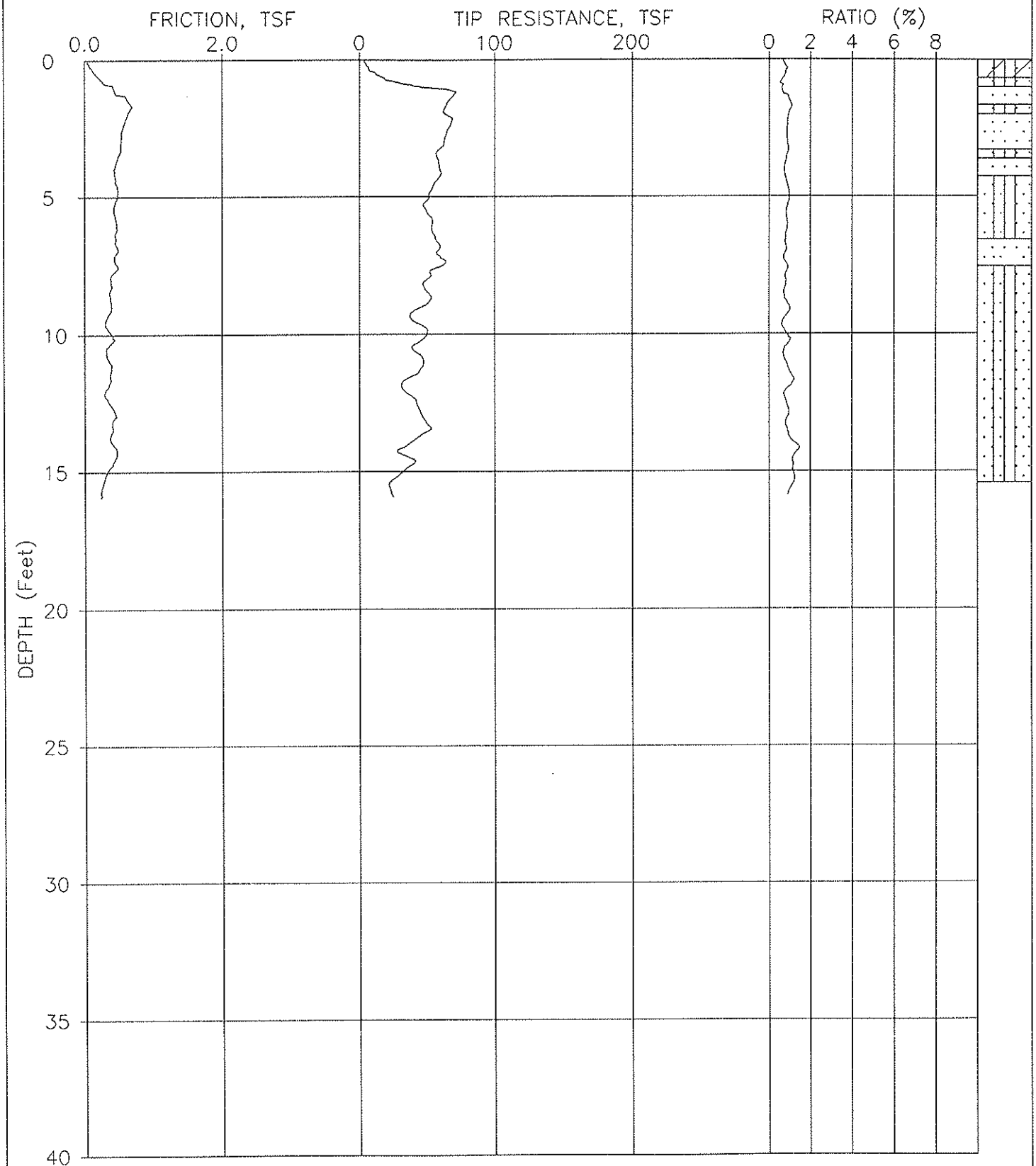
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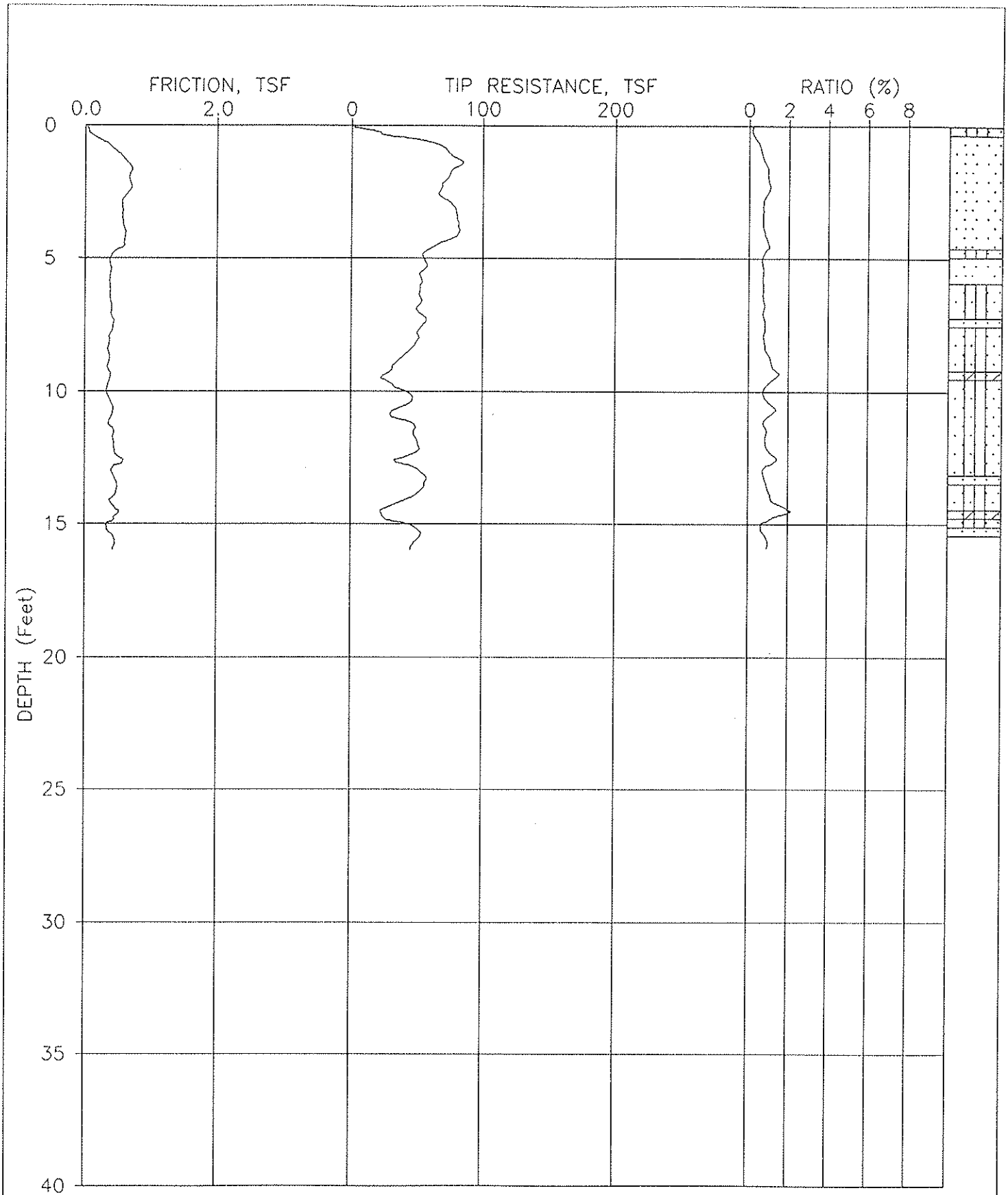
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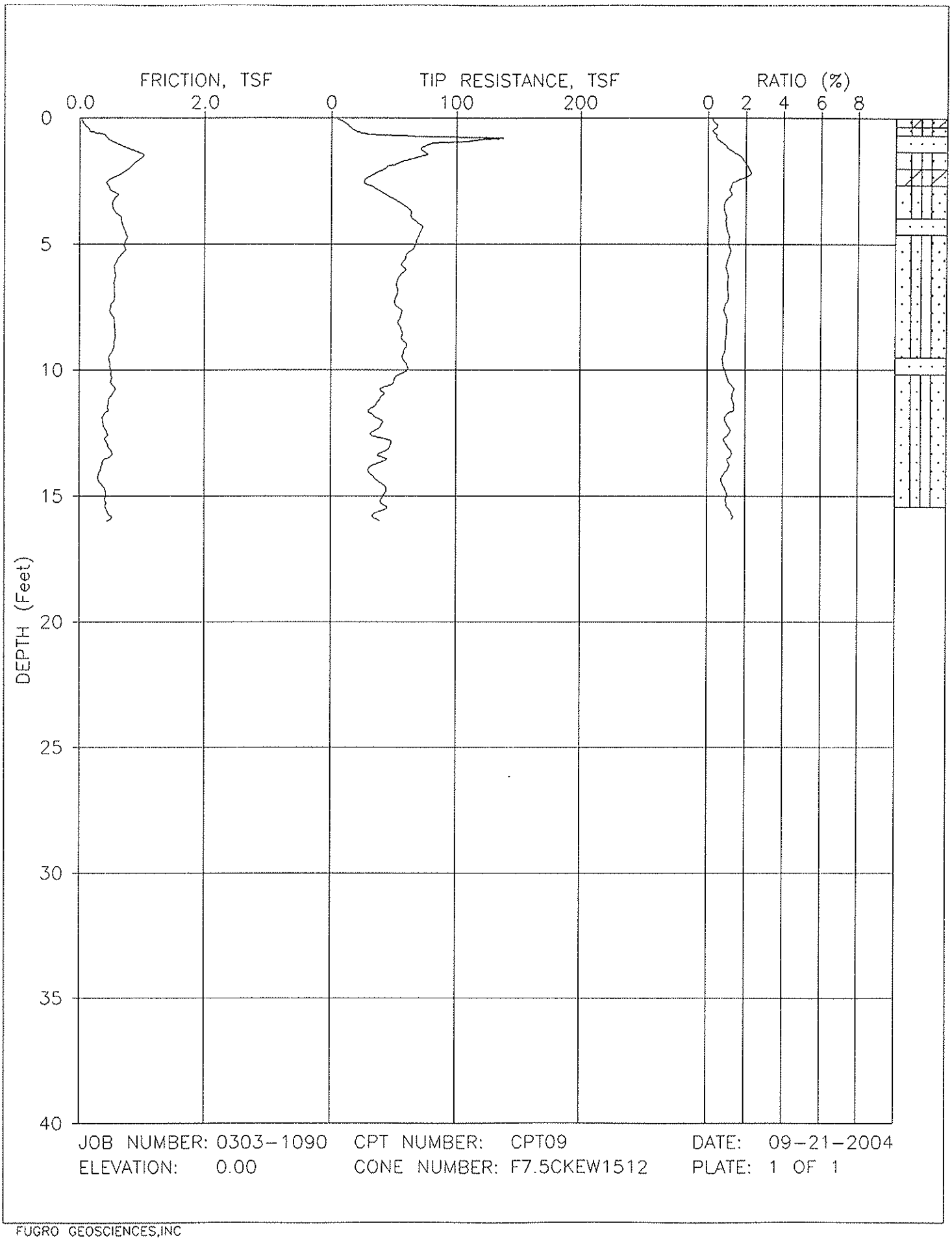
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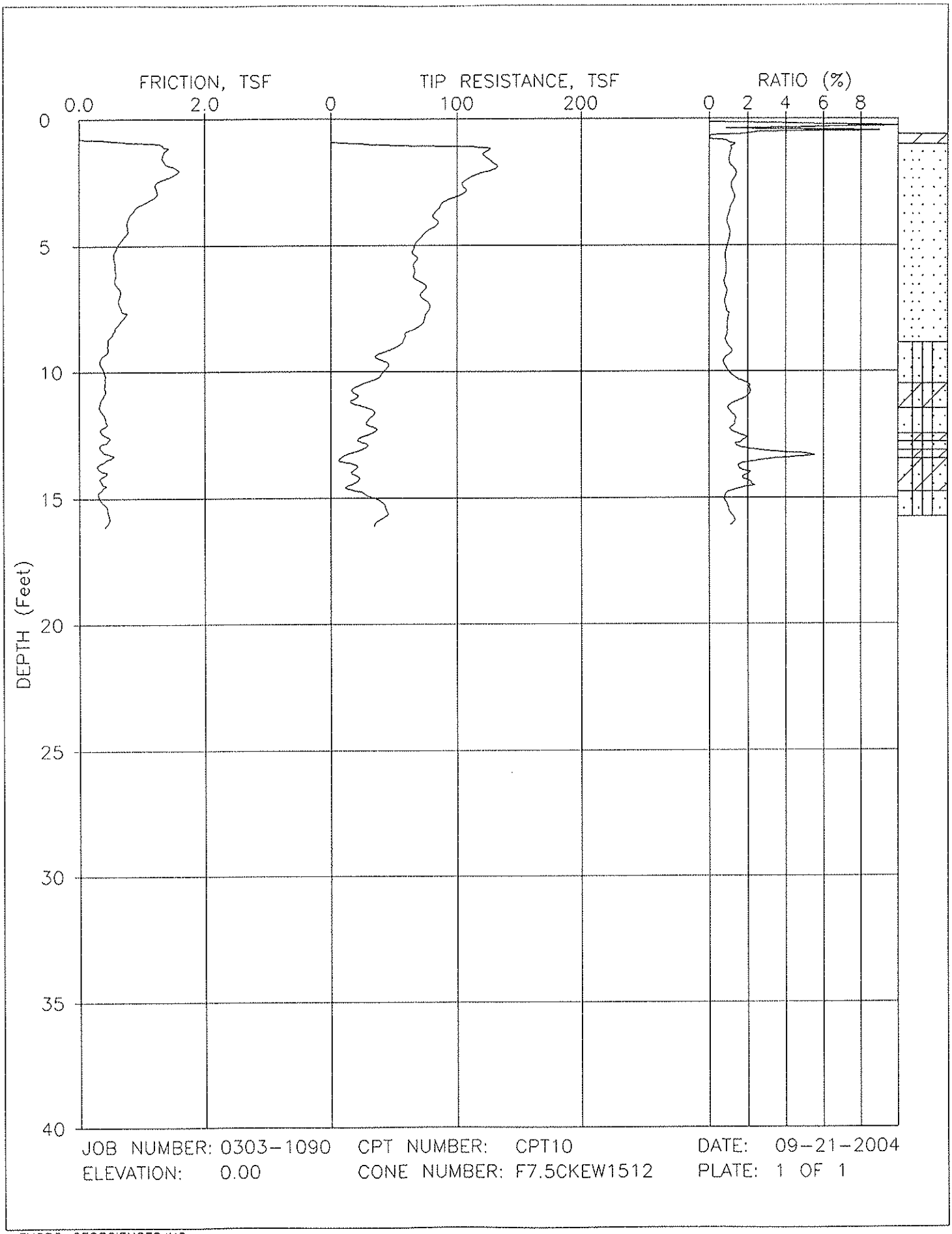
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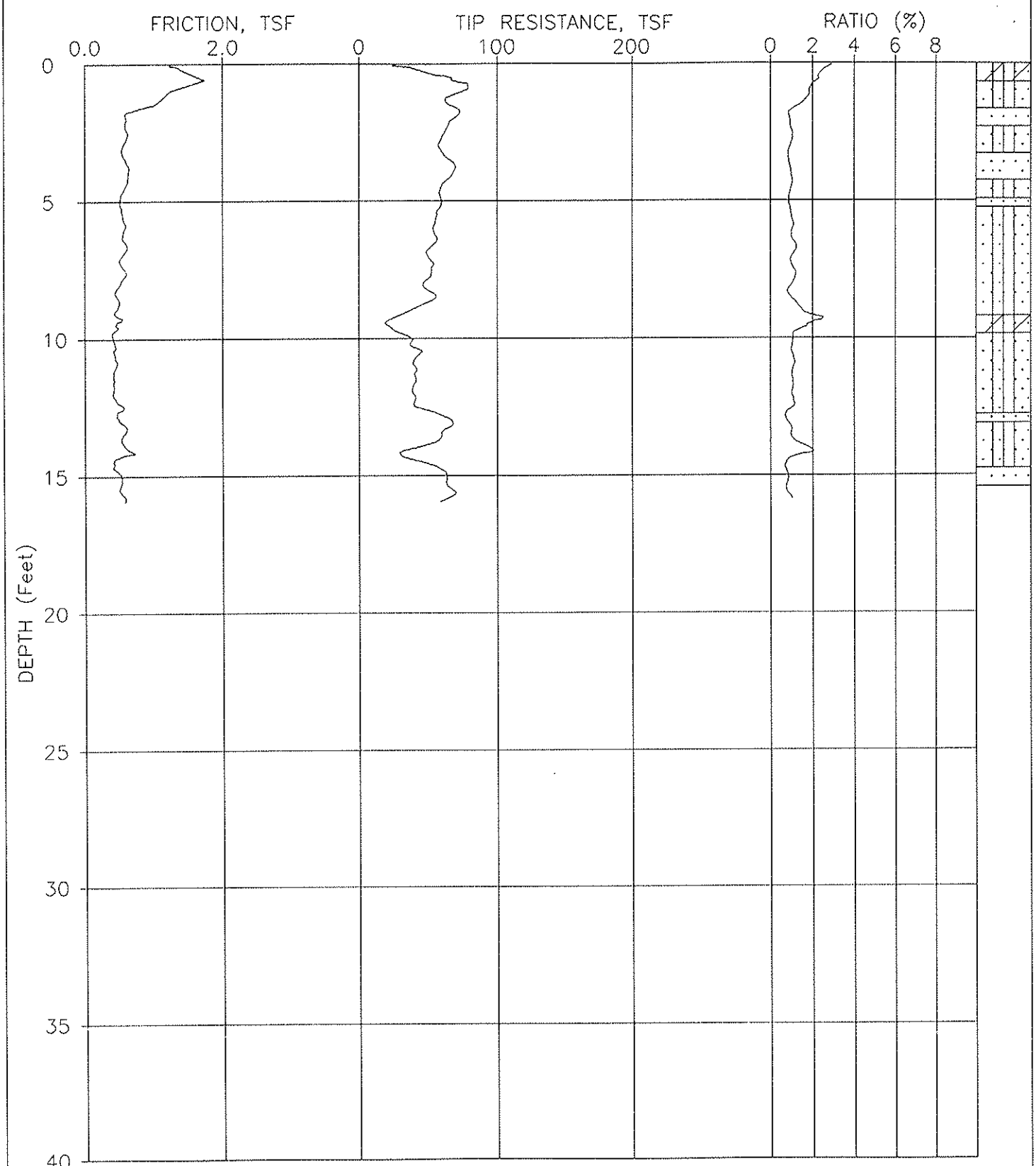
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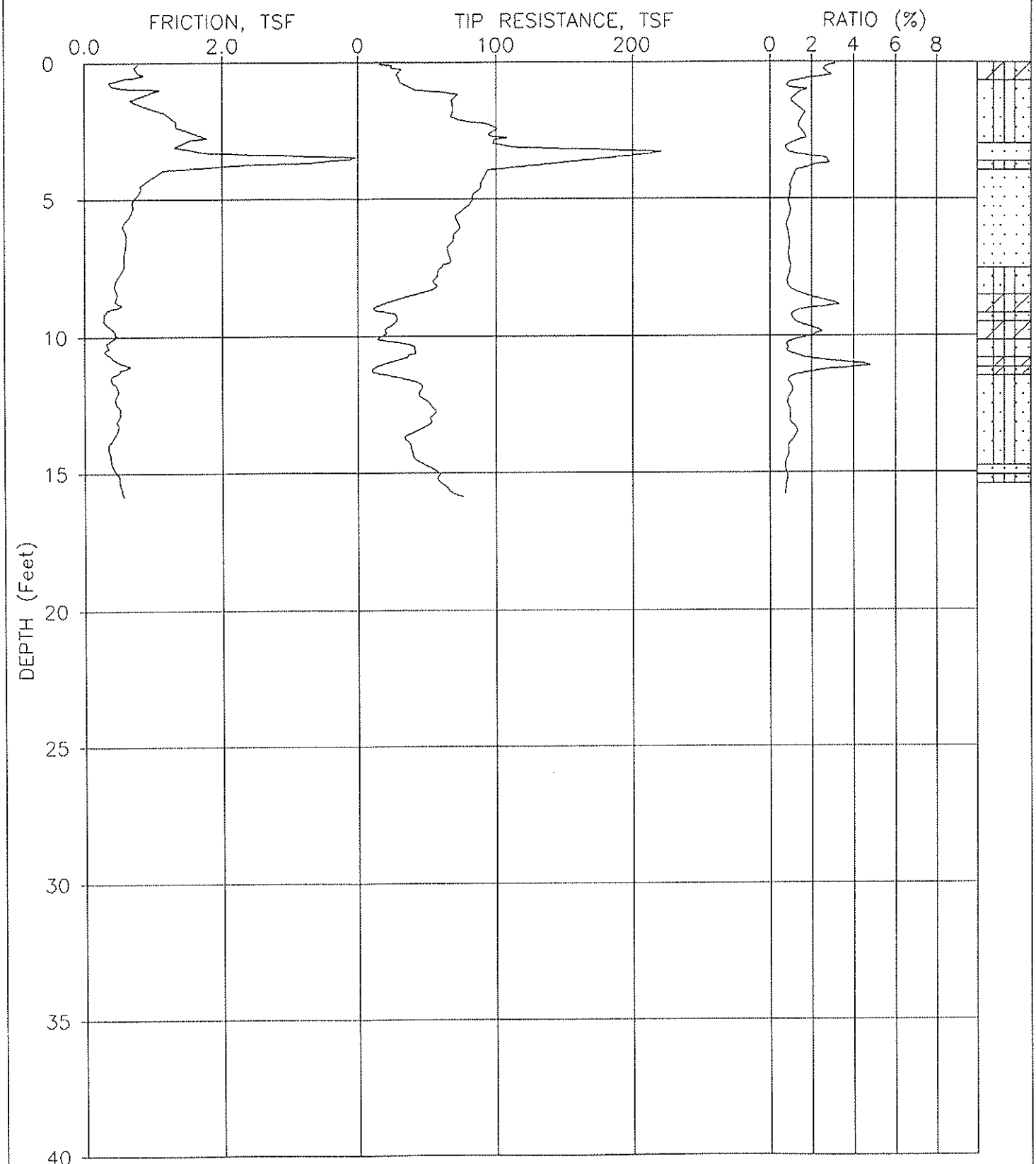
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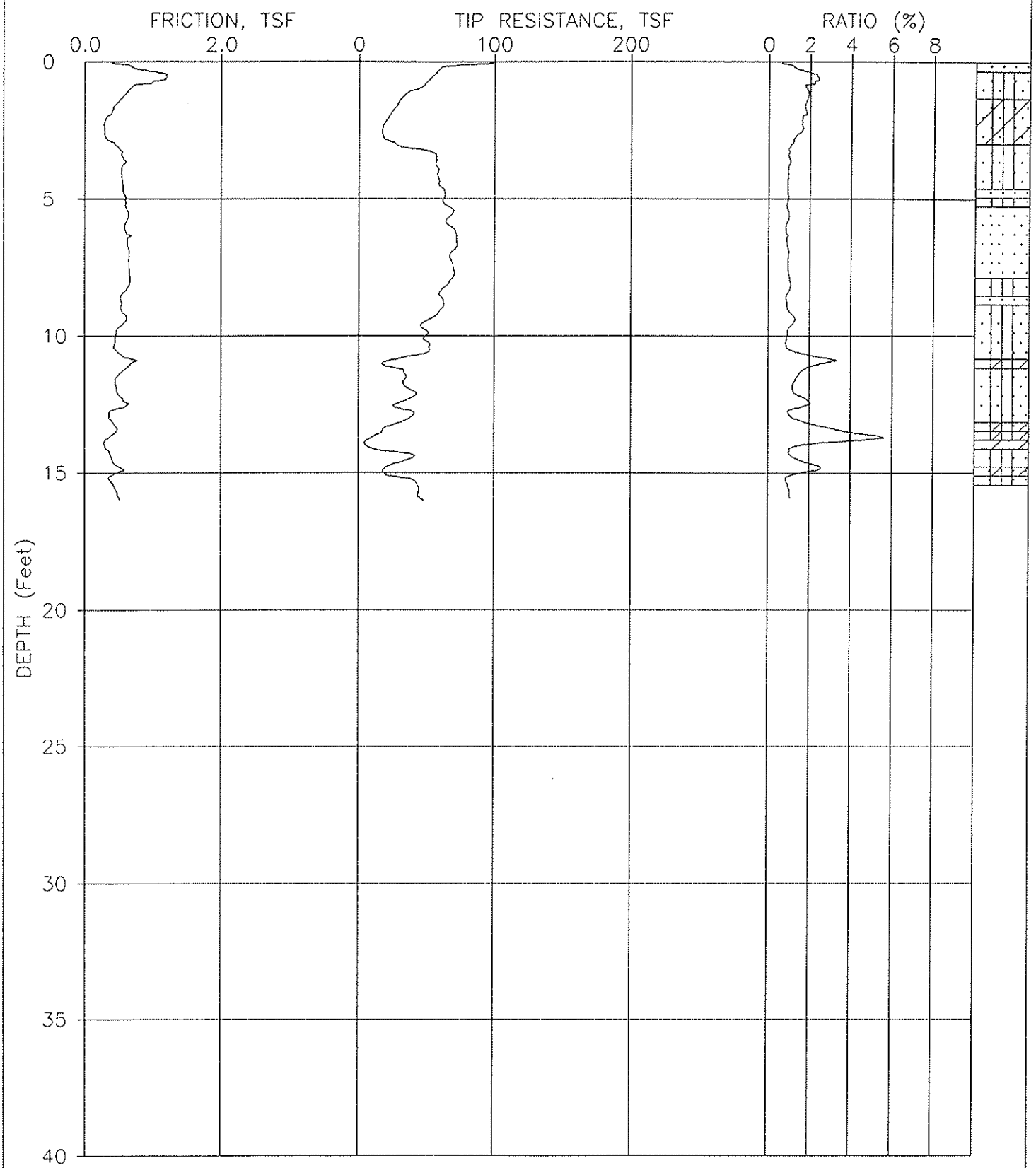
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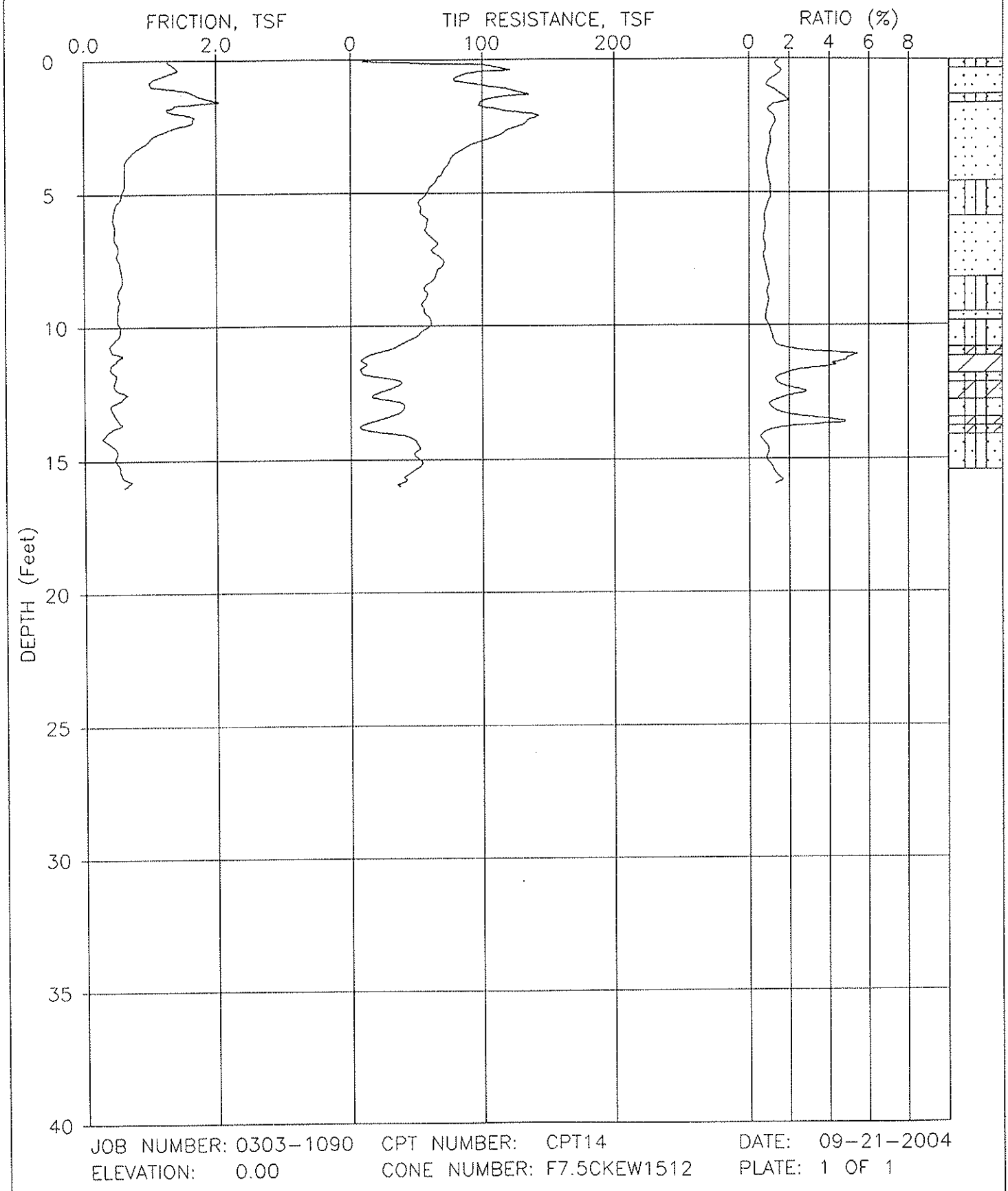
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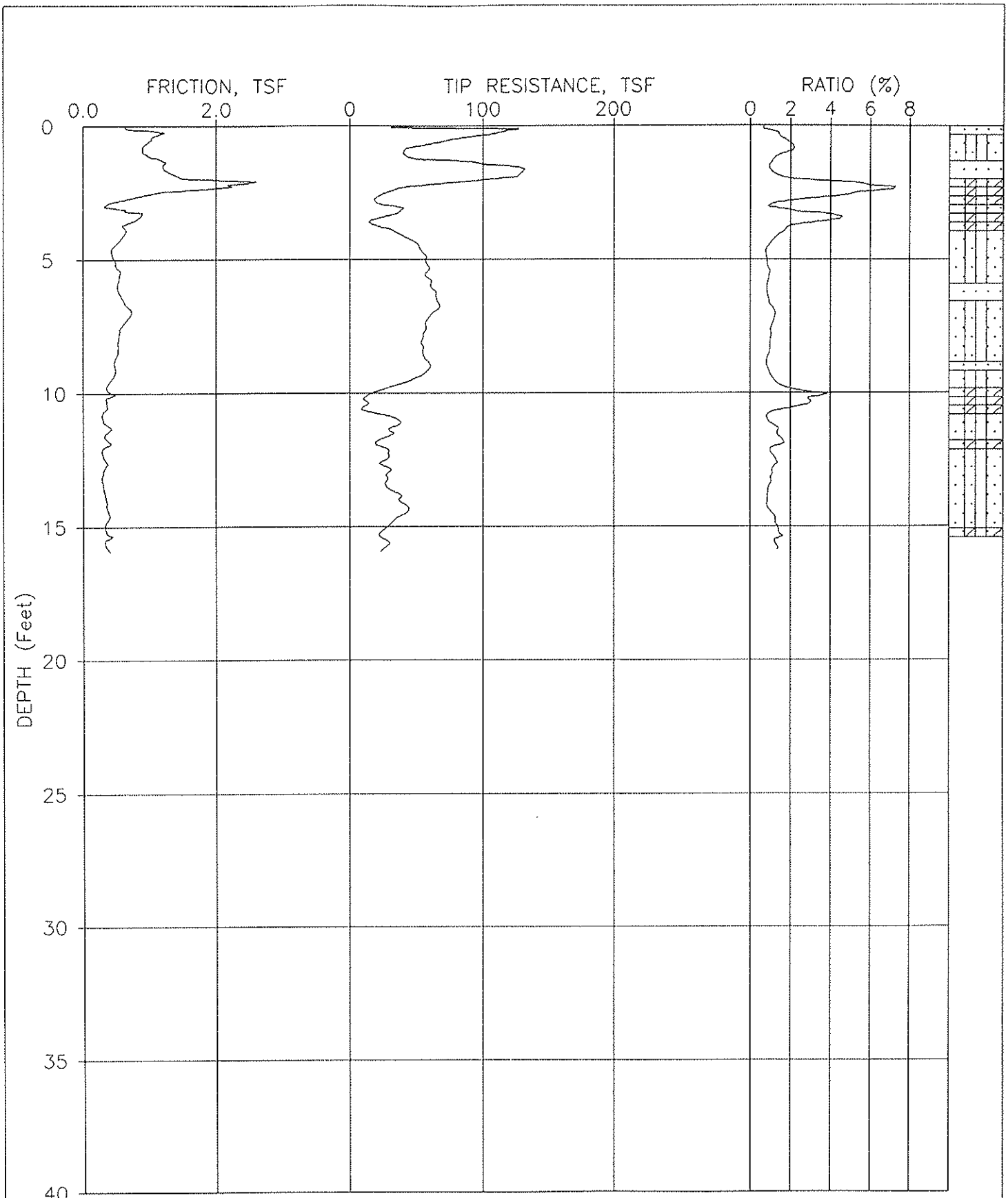
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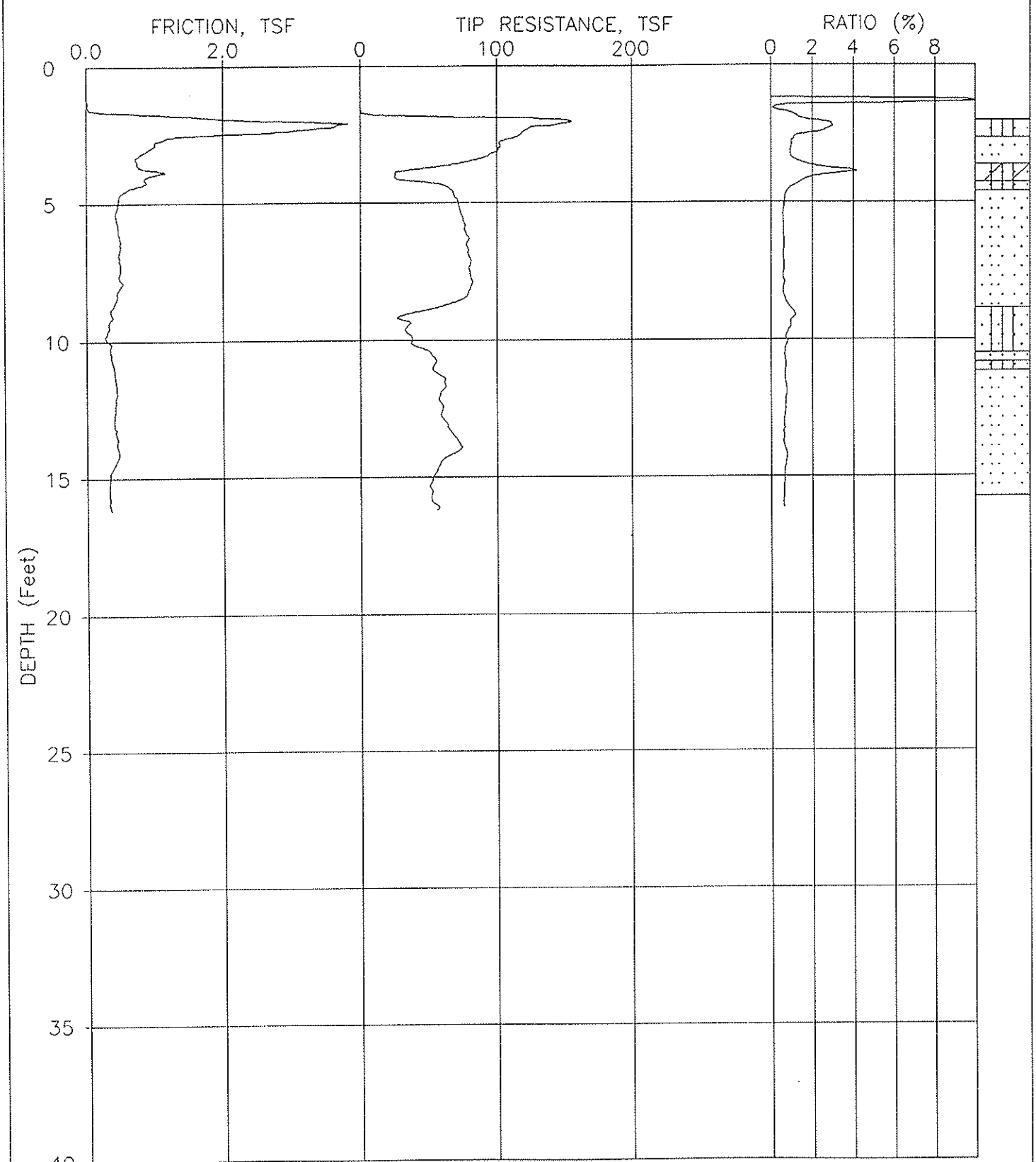
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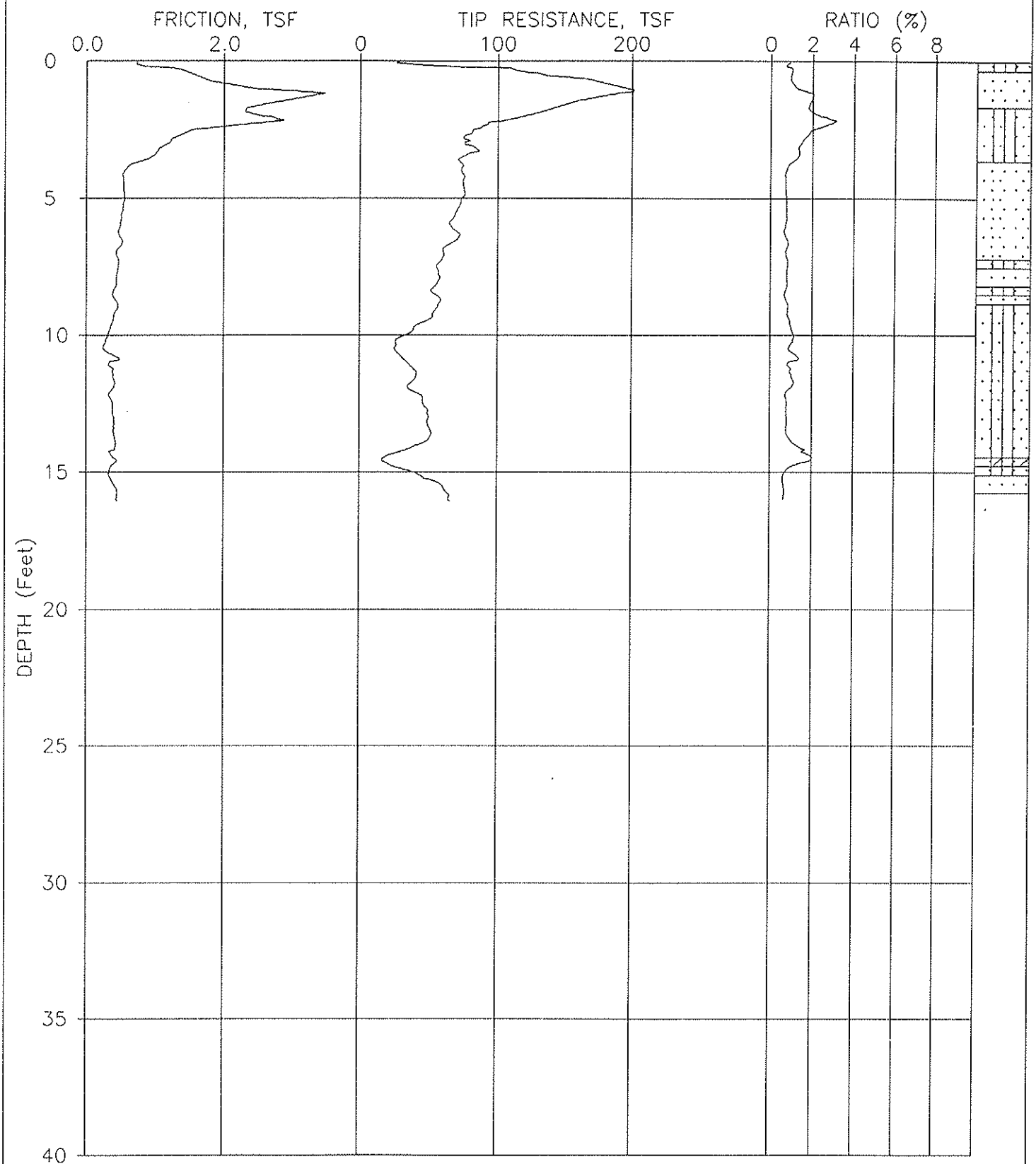
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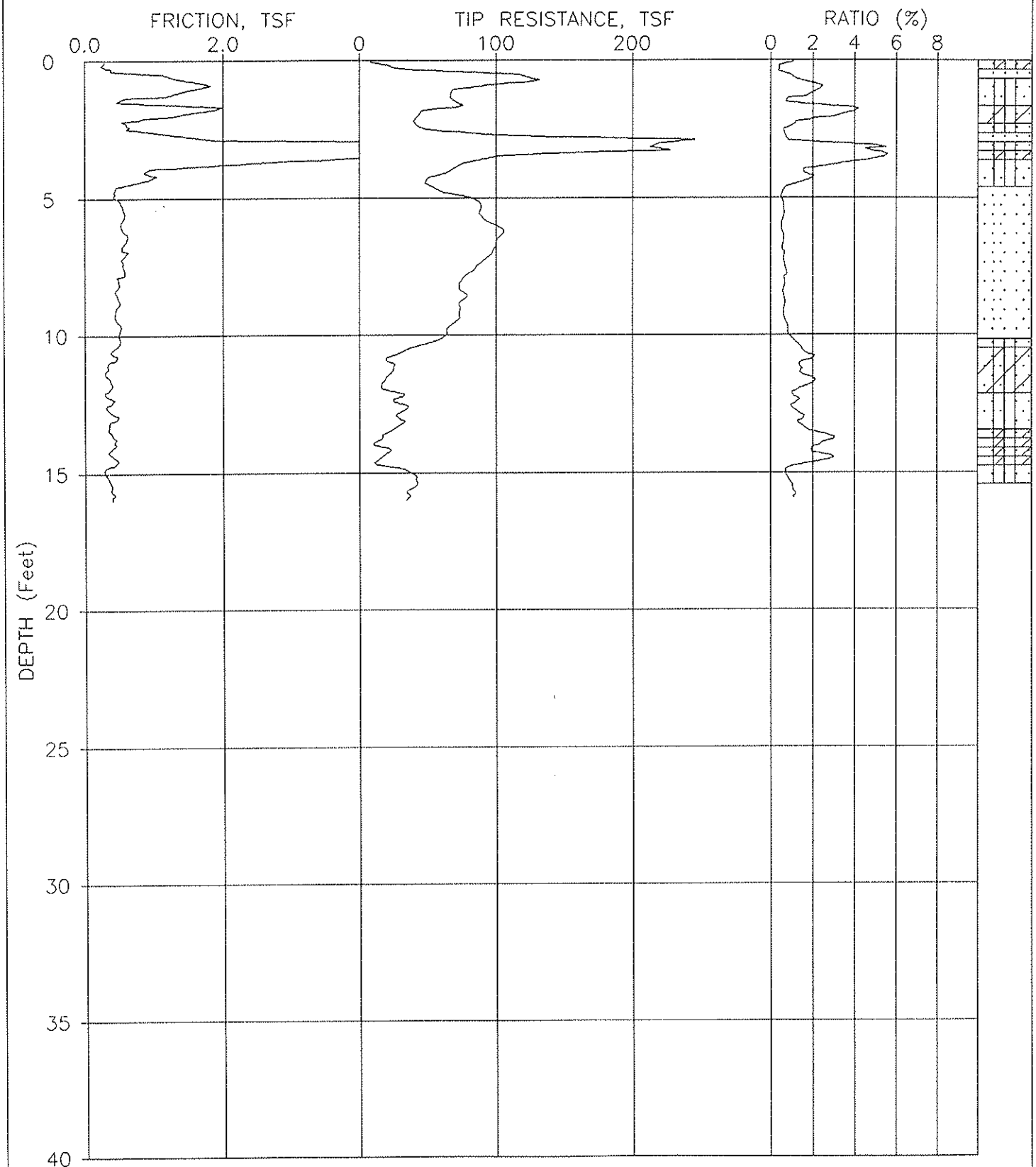
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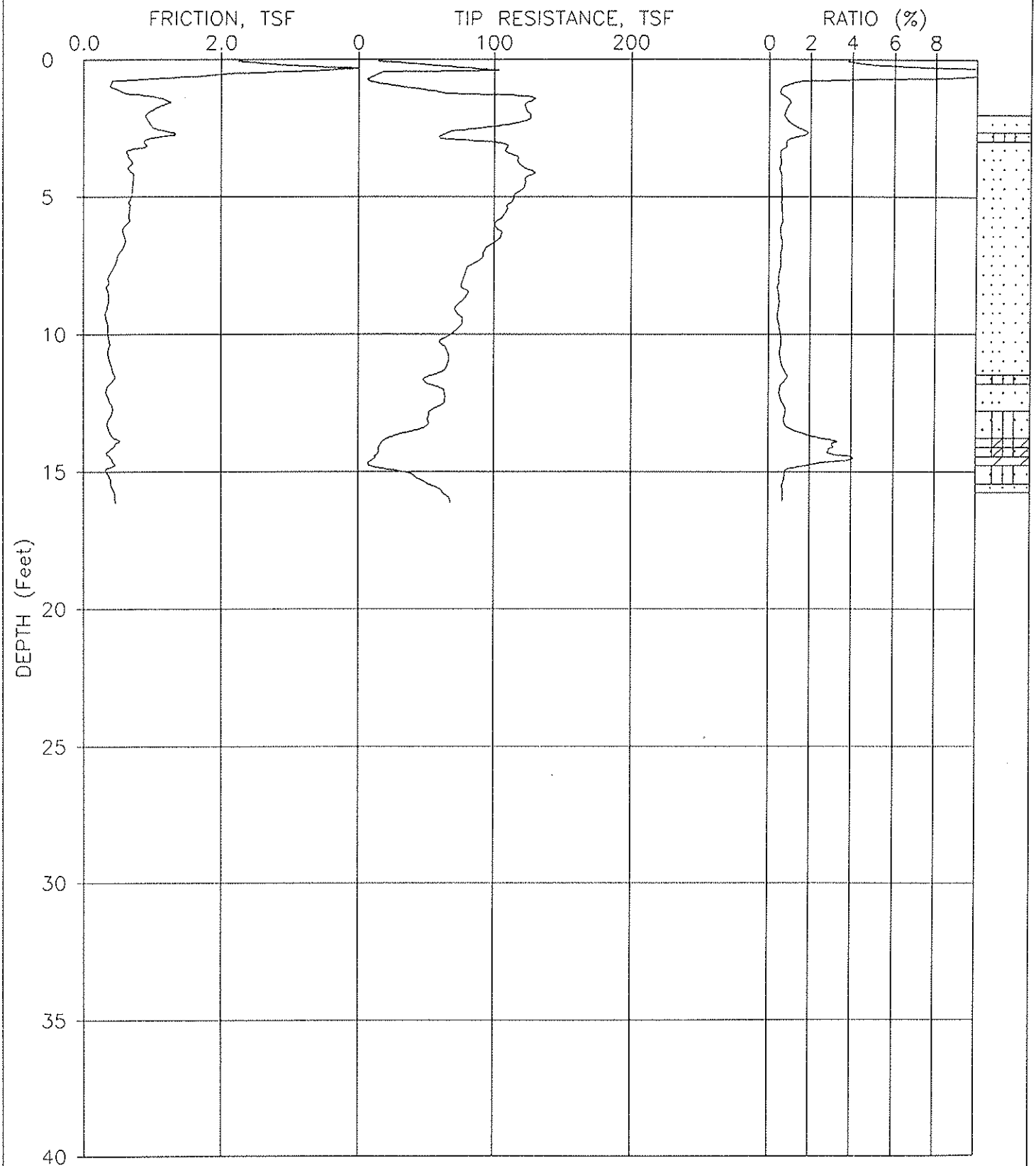
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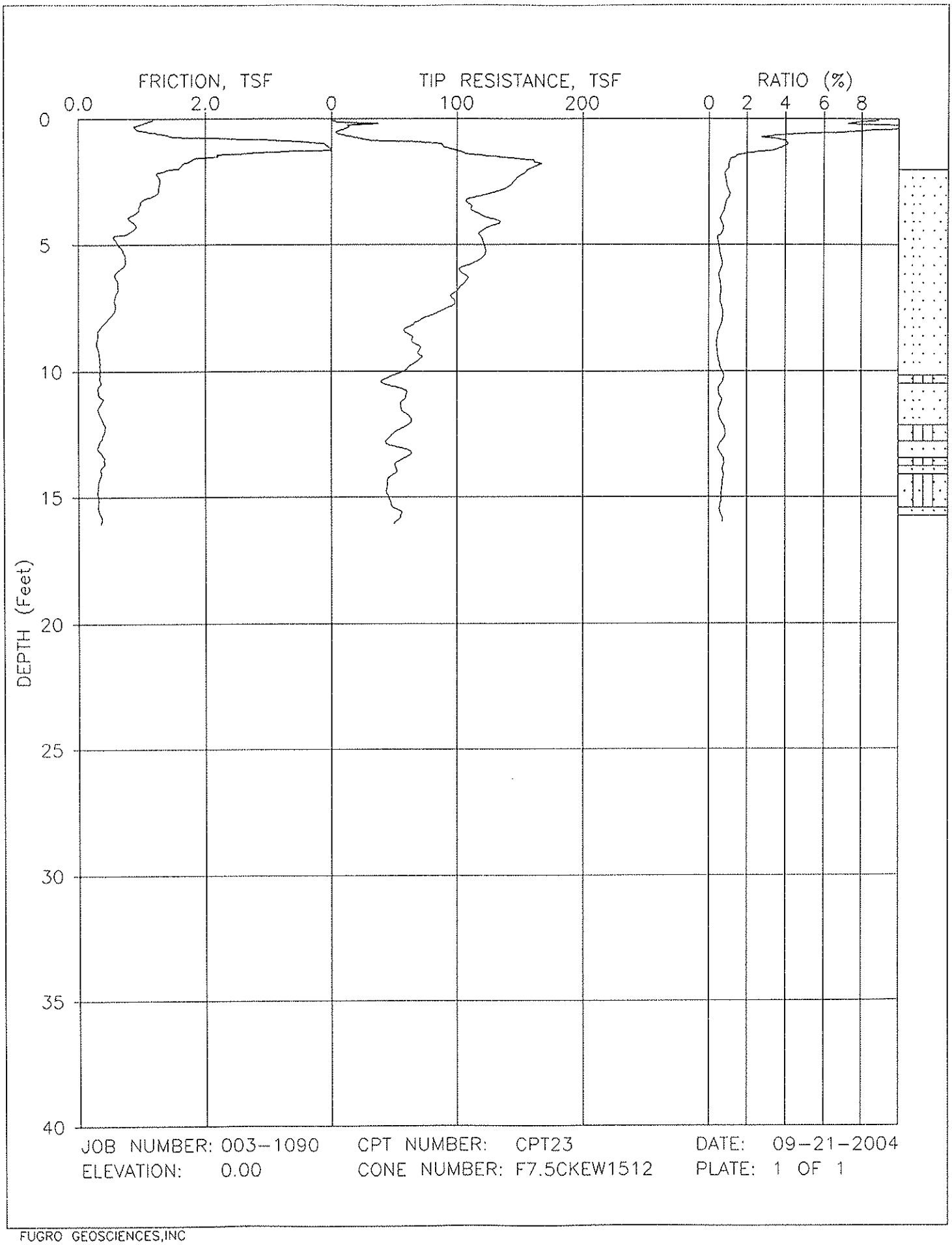
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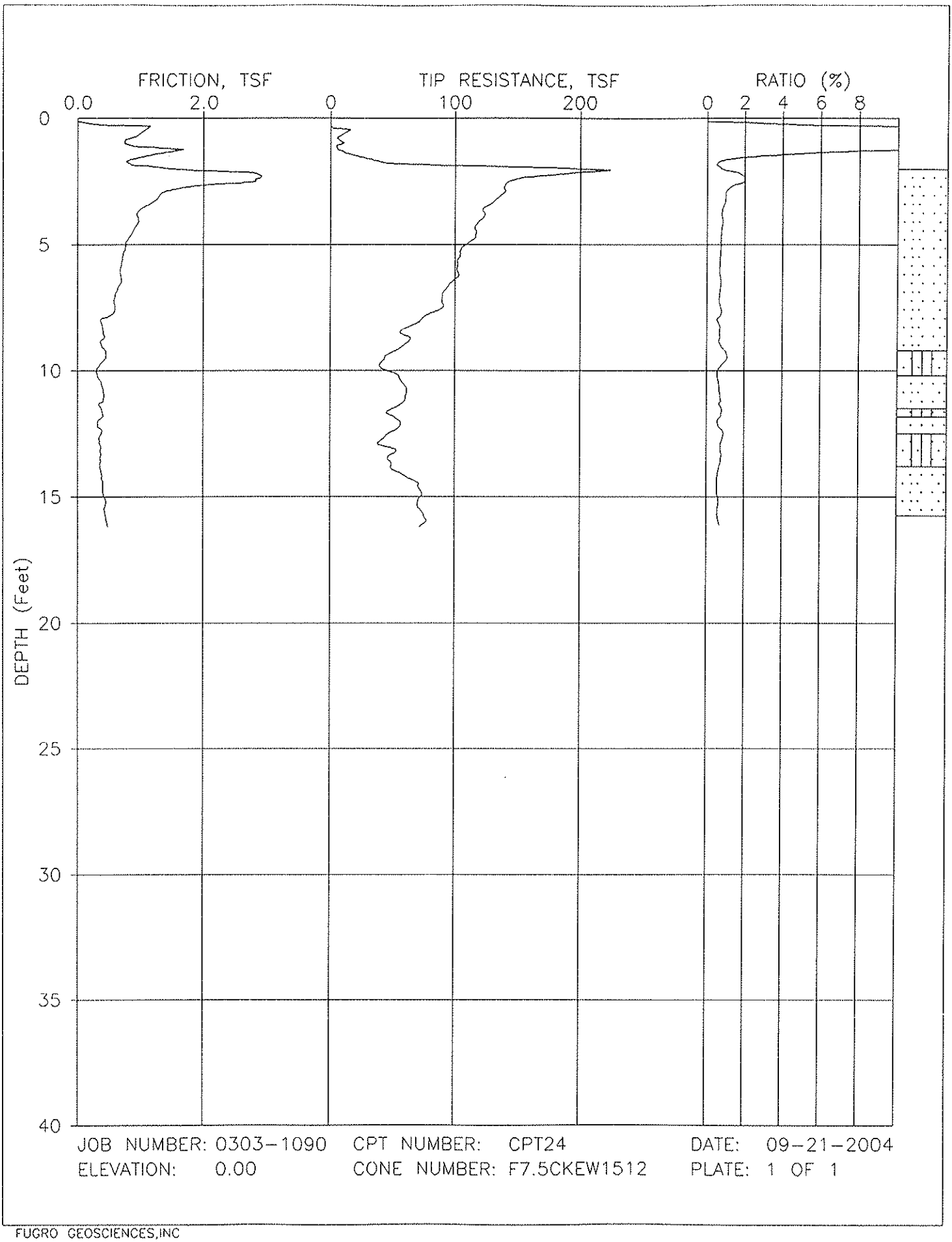


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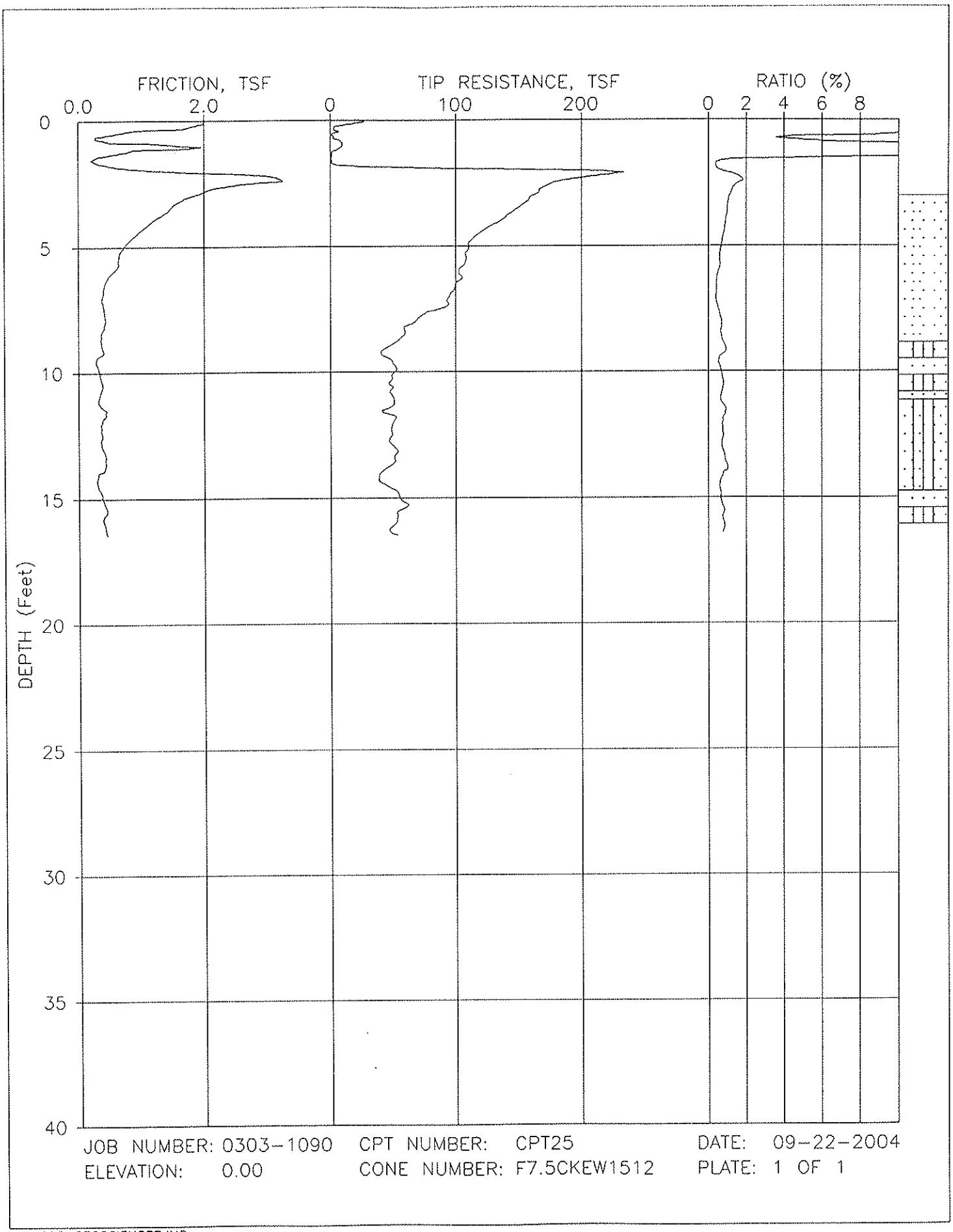
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PLATE: 1 OF 1

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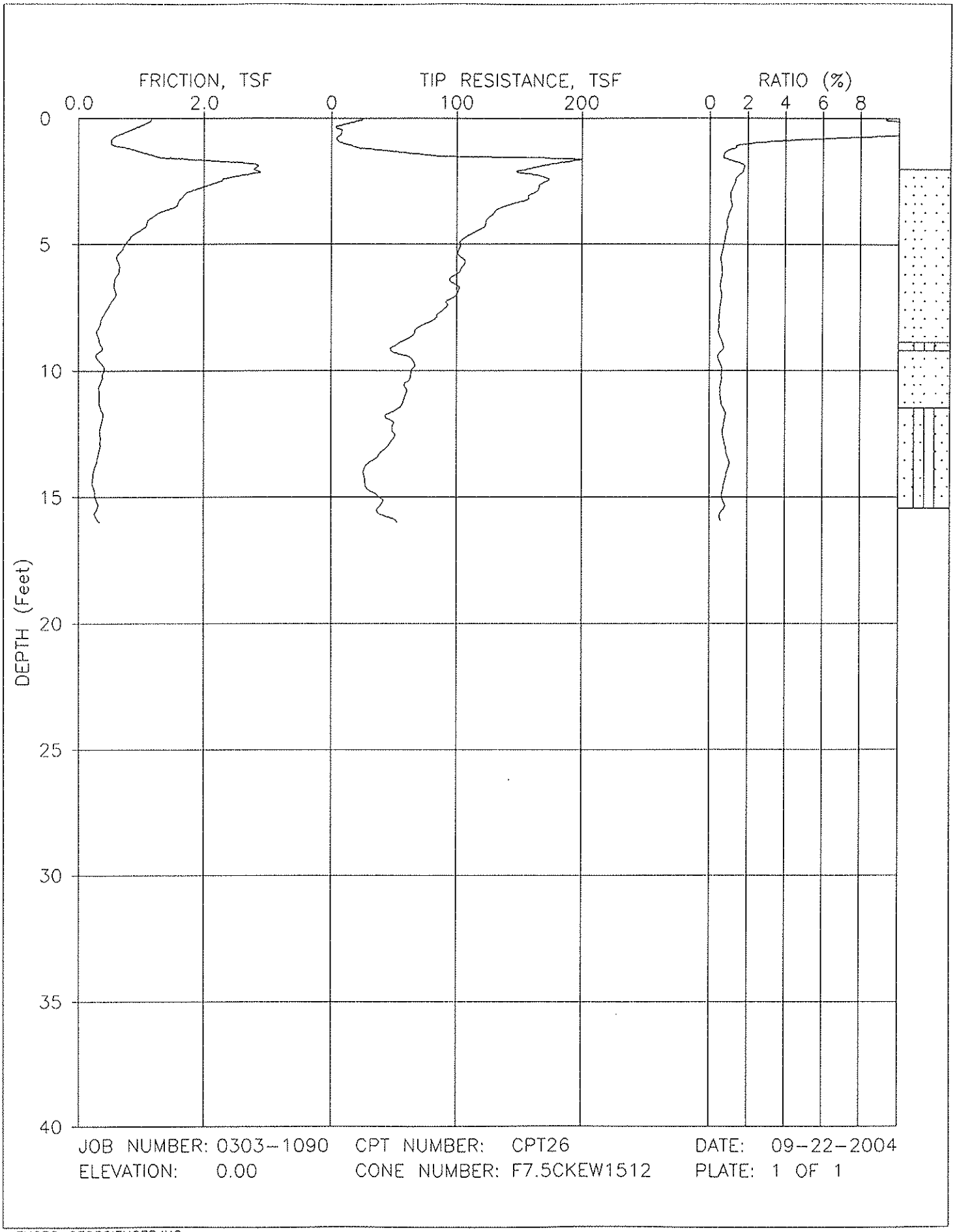
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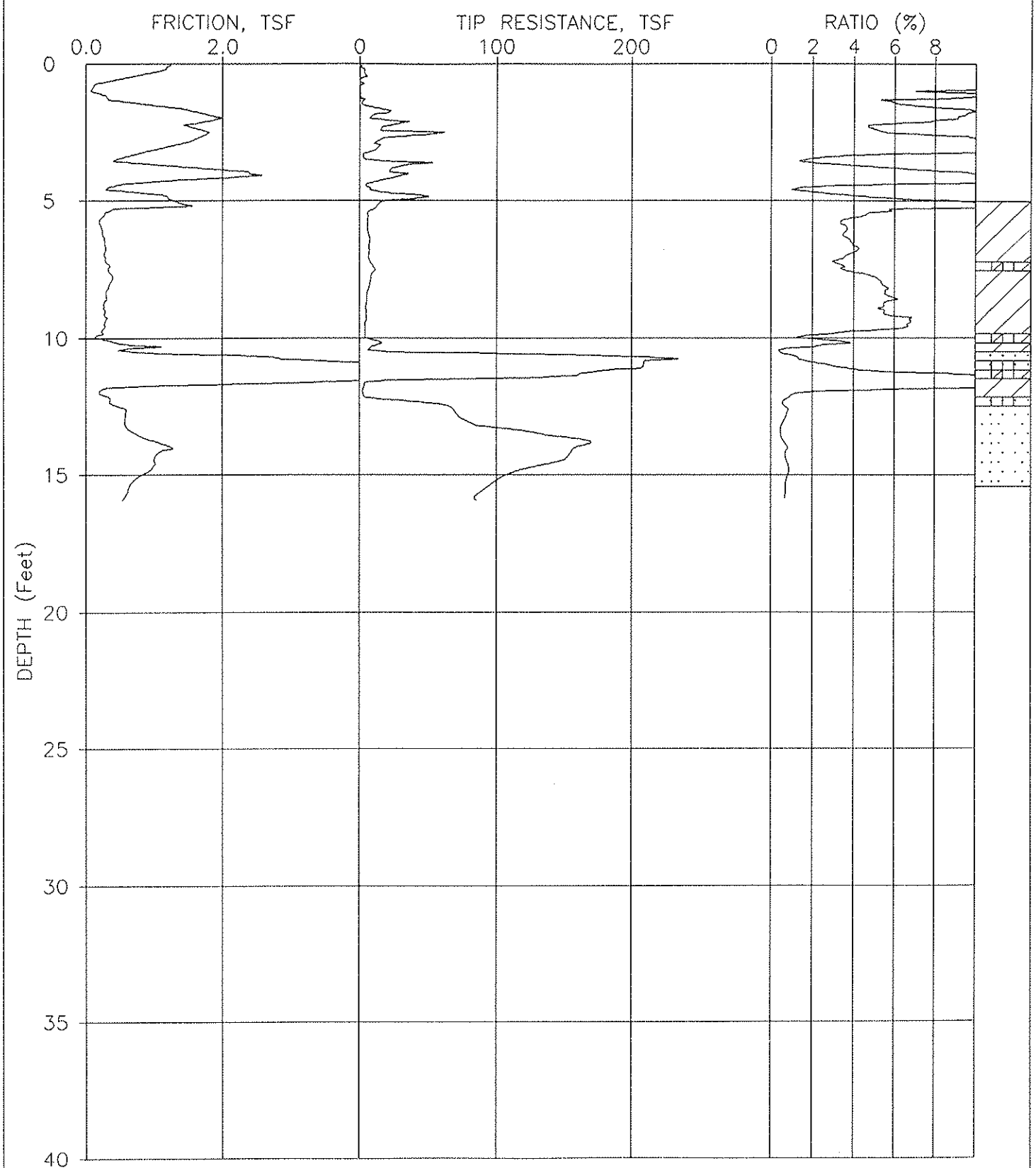
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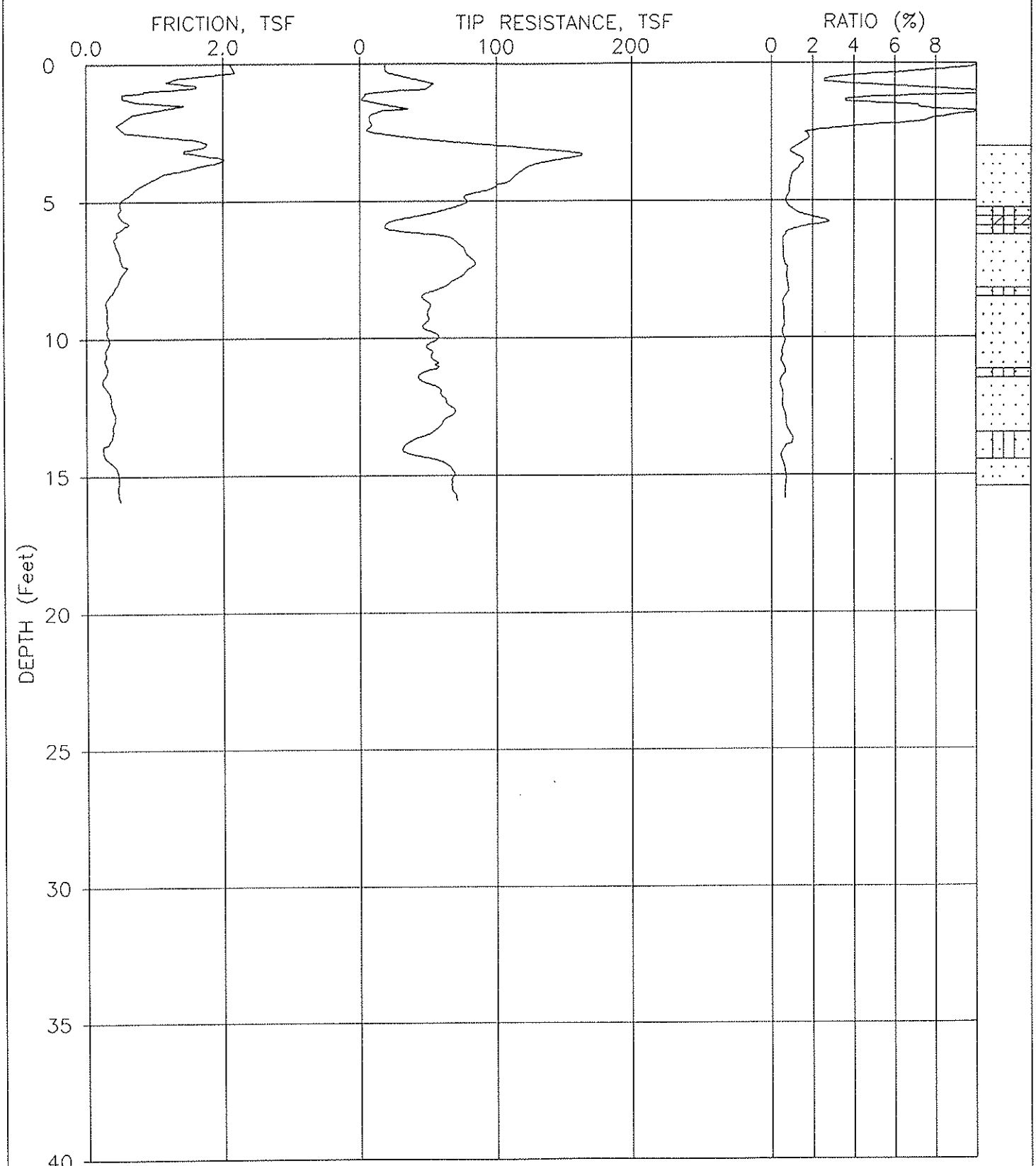
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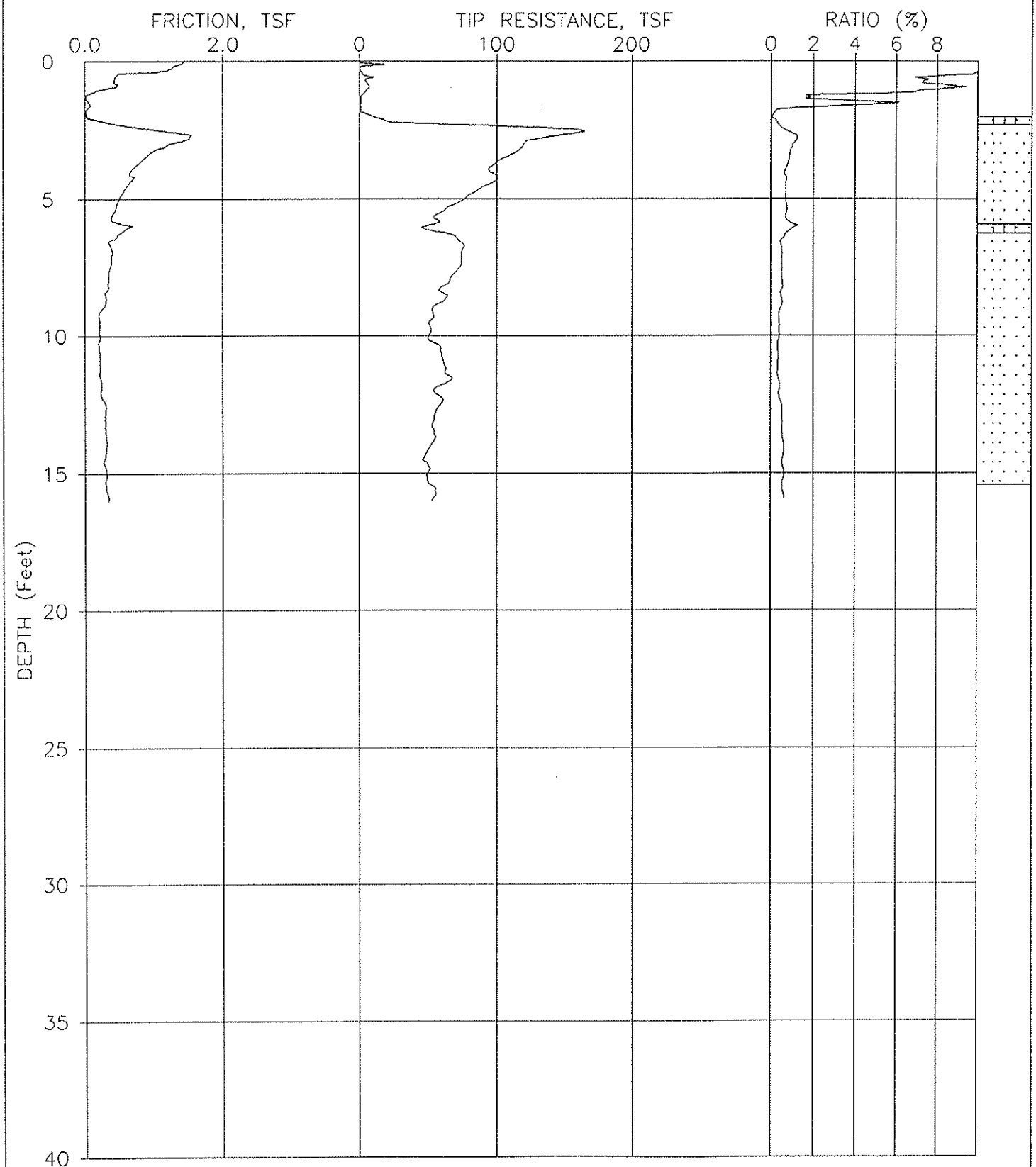
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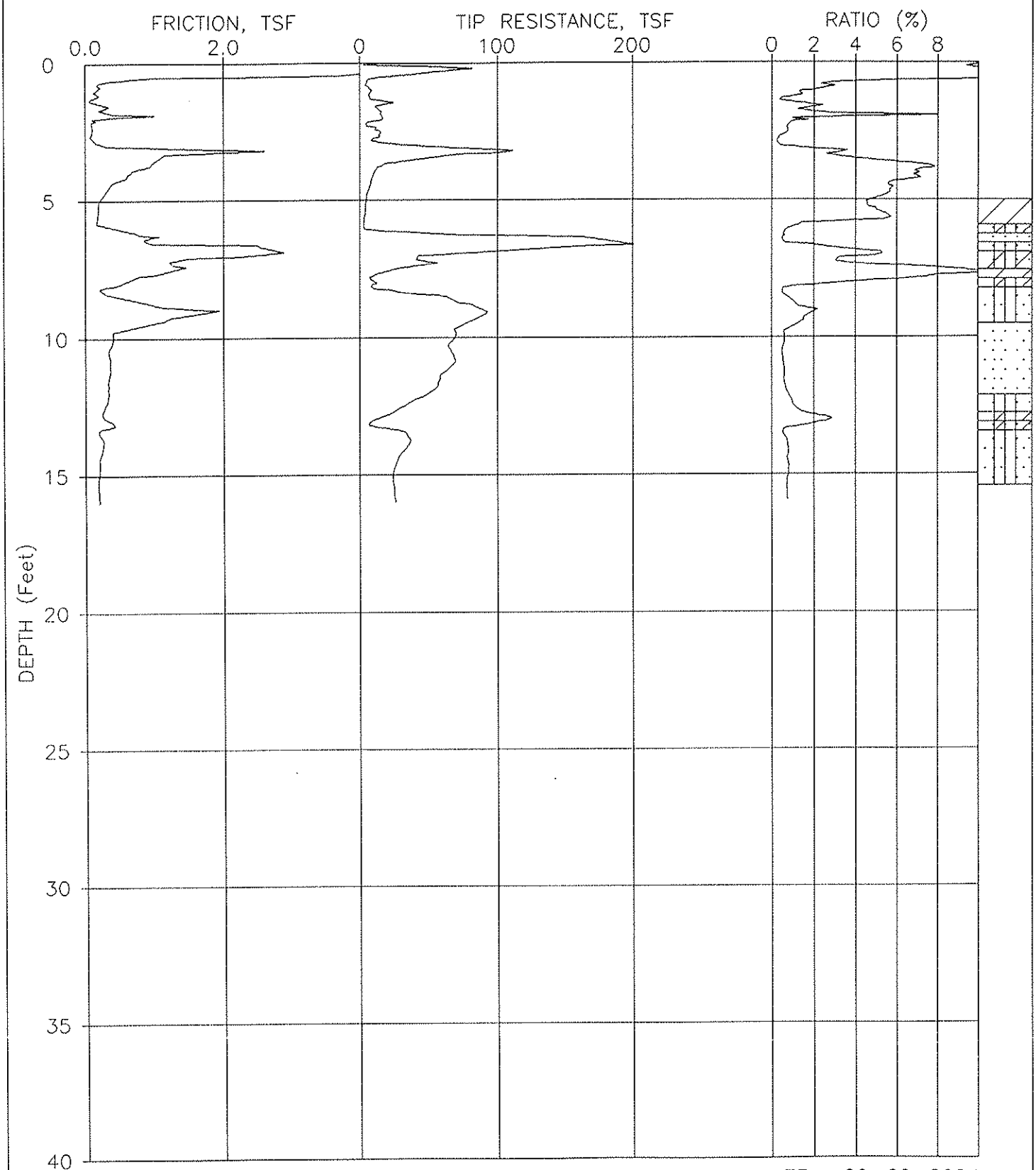


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DATE: 09-22-2004
PLATE: 1 OF 1

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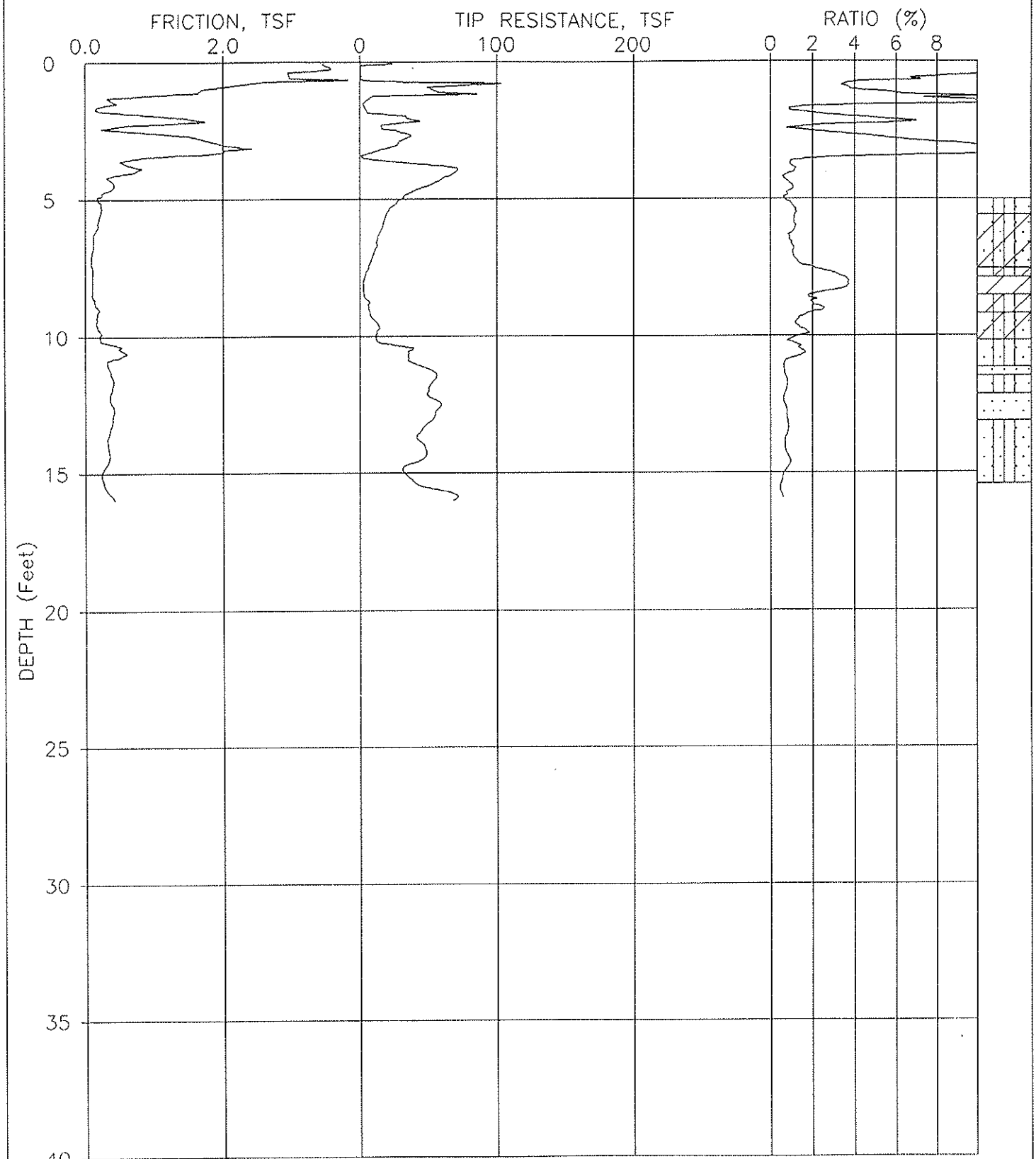


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DATE: 09-22-2004
PLATE: 1 OF 1

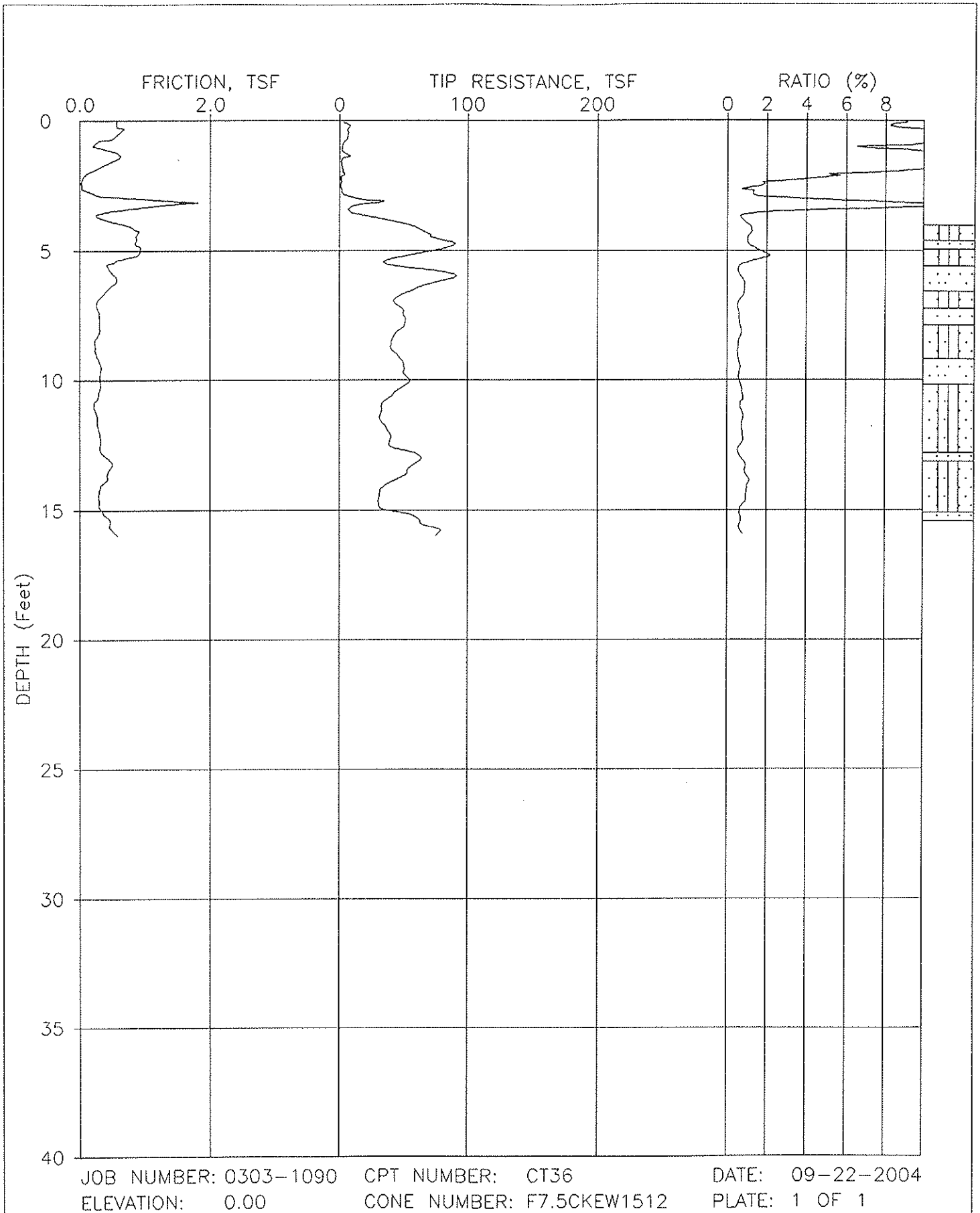
FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-1090 CPT NUMBER: CPT35 DATE: 09-22-2004

ELEVATION: 0.00 CONE NUMBER: F7.5CKEW1512 PLATE: 1 OF 1

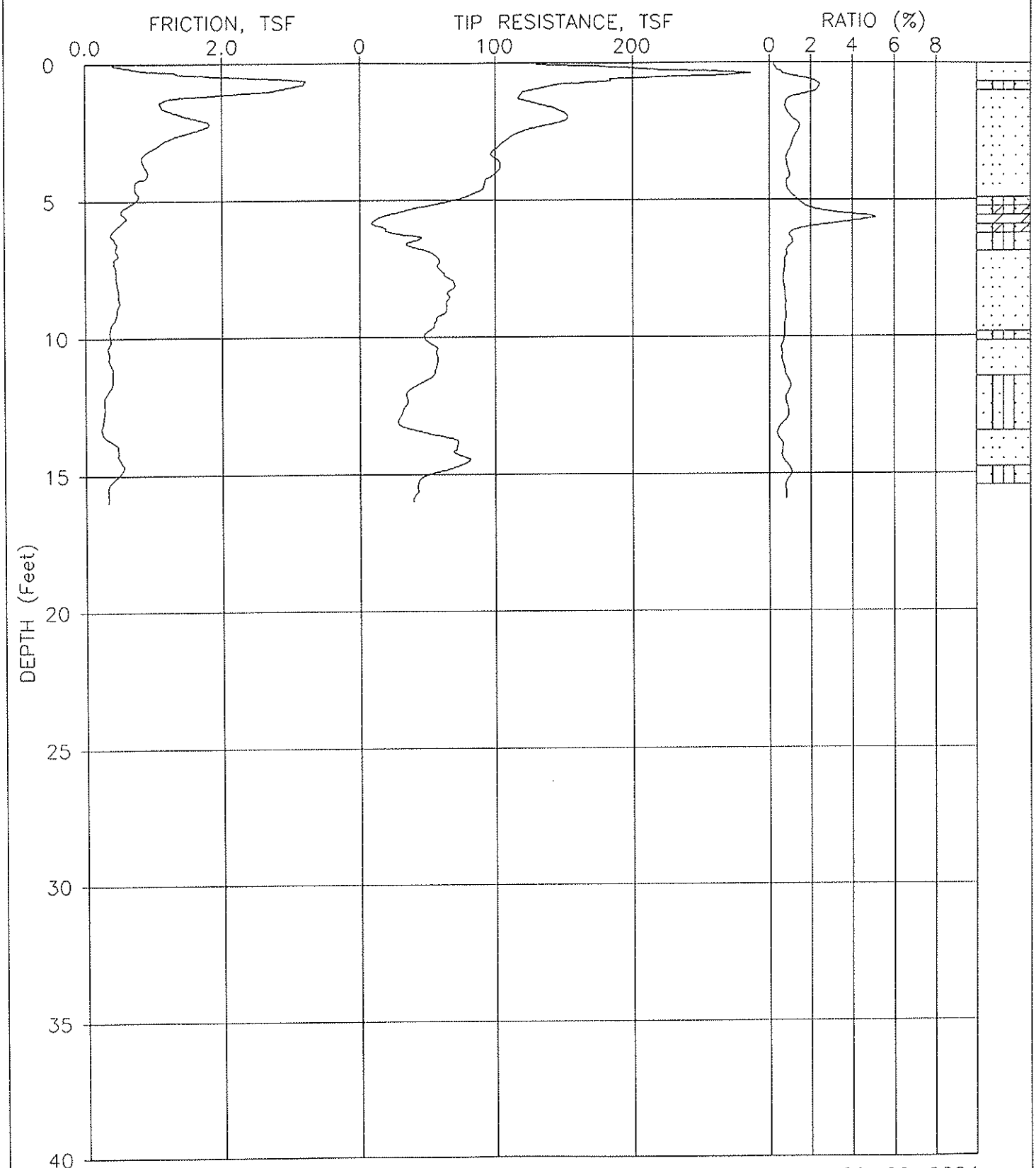
FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-1090 CPT NUMBER: CT36 DATE: 09-22-2004

ELEVATION: 0.00 CONE NUMBER: F7.5CKEW1512 PLATE: 1 OF 1

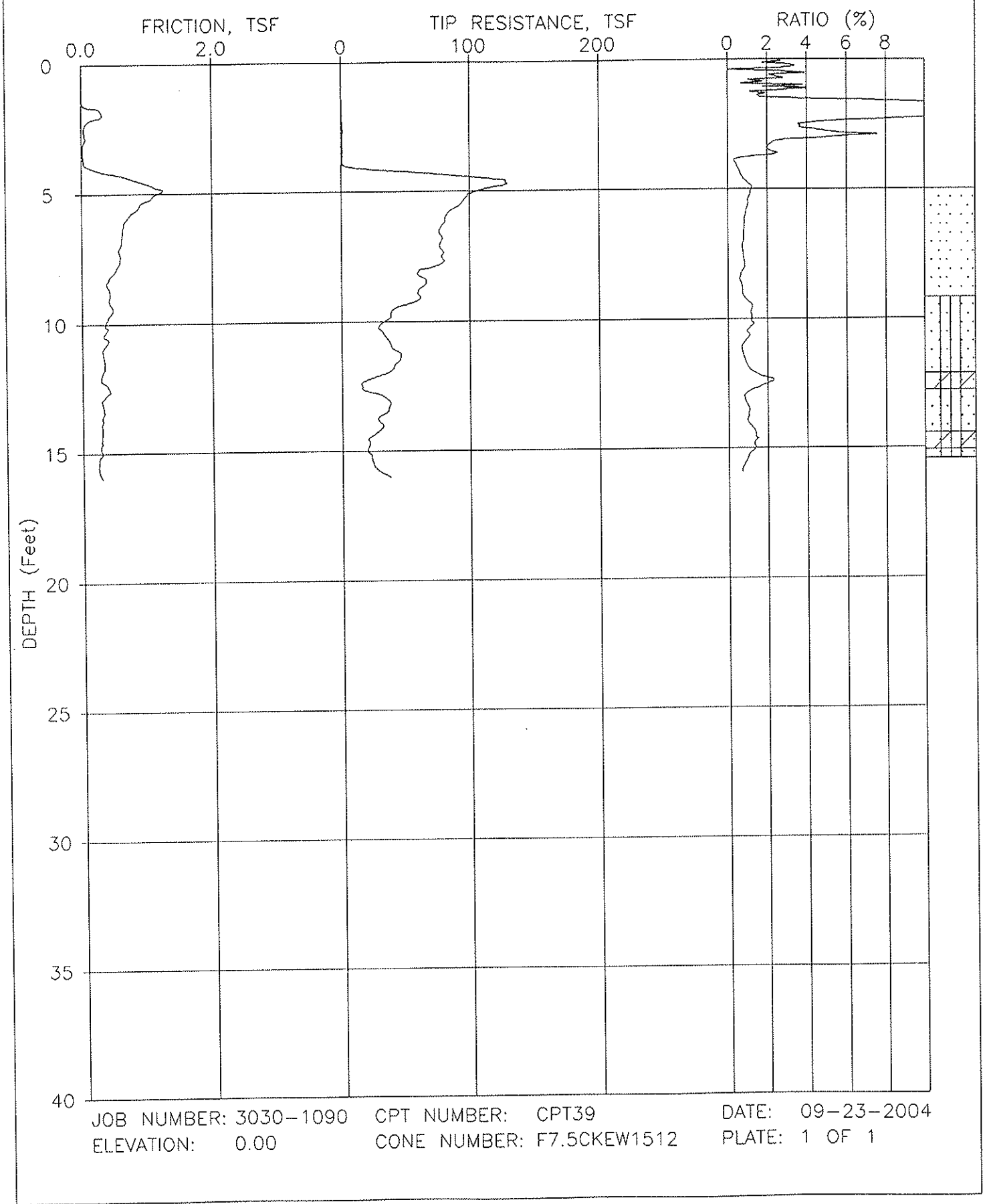
FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-1090 CPT NUMBER: CPT37 DATE: 09-22-2004

ELEVATION: 0.00 CONE NUMBER: F7.5CKEW1512 PLATE: 1 OF 1

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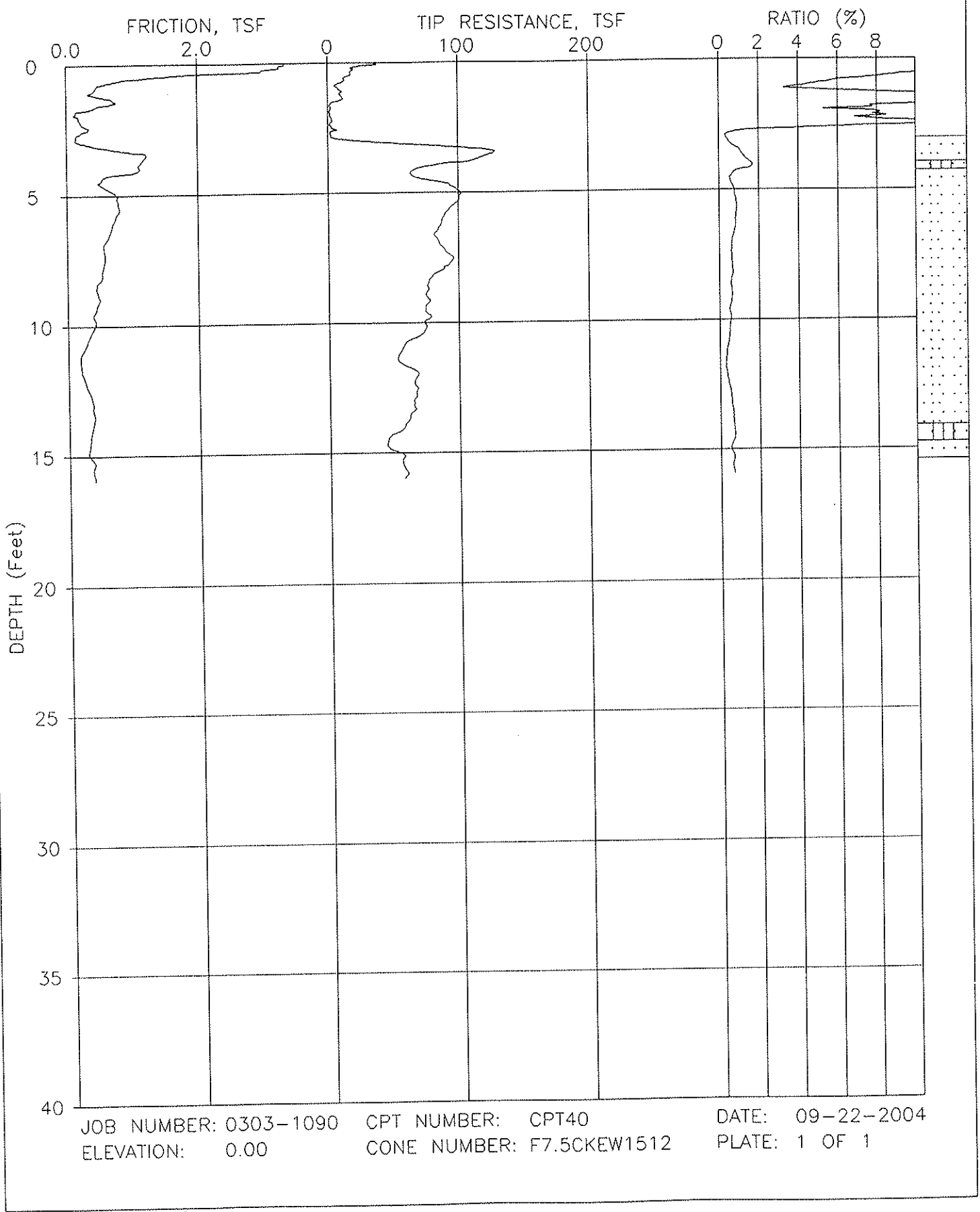


JOB NUMBER: 3030-1090
ELEVATION: 0.00

CPT NUMBER: CPT39
CONE NUMBER: F7.5CKEW1512

DATE: 09-23-2004
PLATE: 1 OF 1

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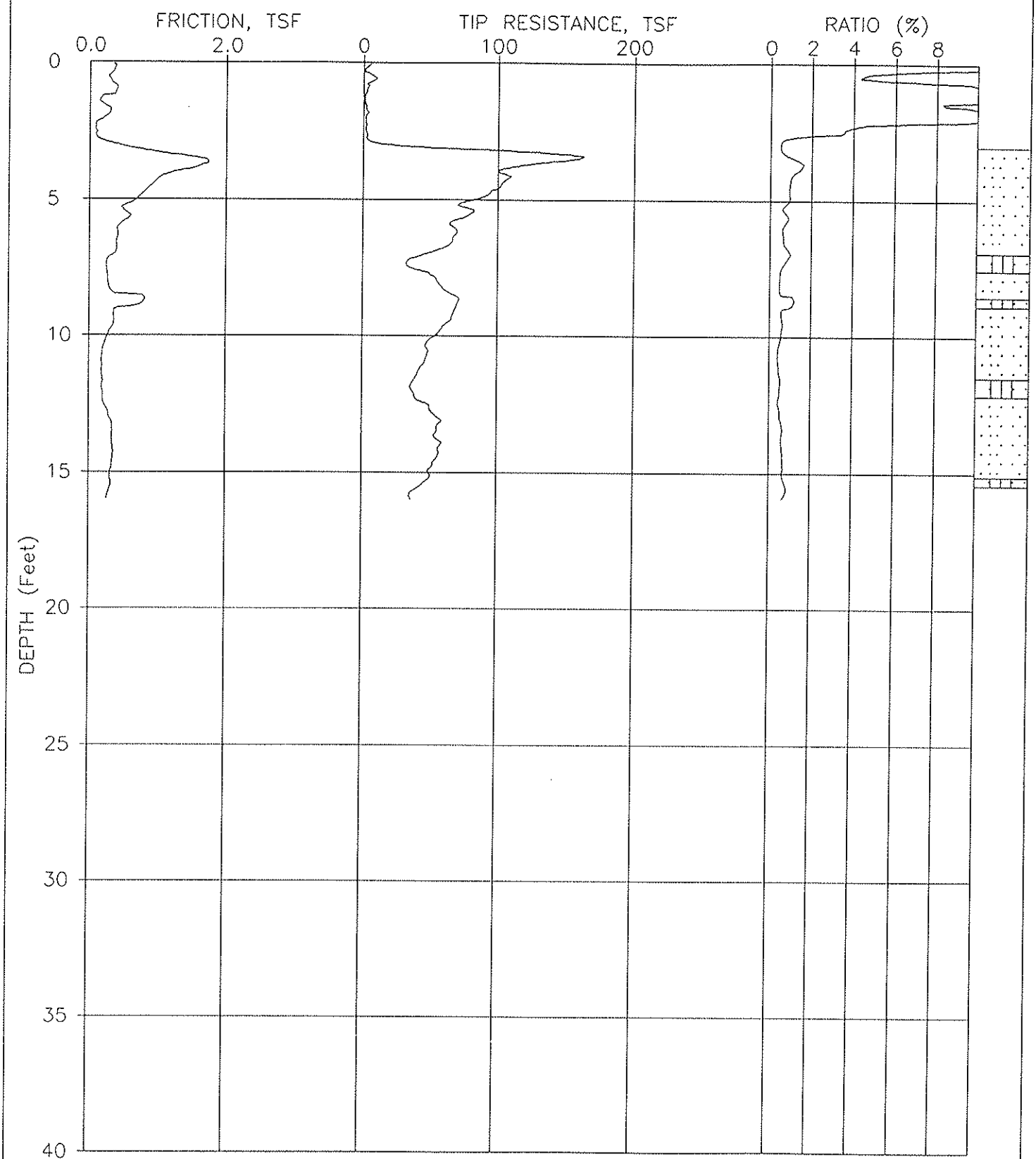


JOB NUMBER: 0303-1090
ELEVATION: 0.00

CPT NUMBER: CPT40
CONE NUMBER: F7.5CKEW1512

DATE: 09-22-2004
PLATE: 1 OF 1

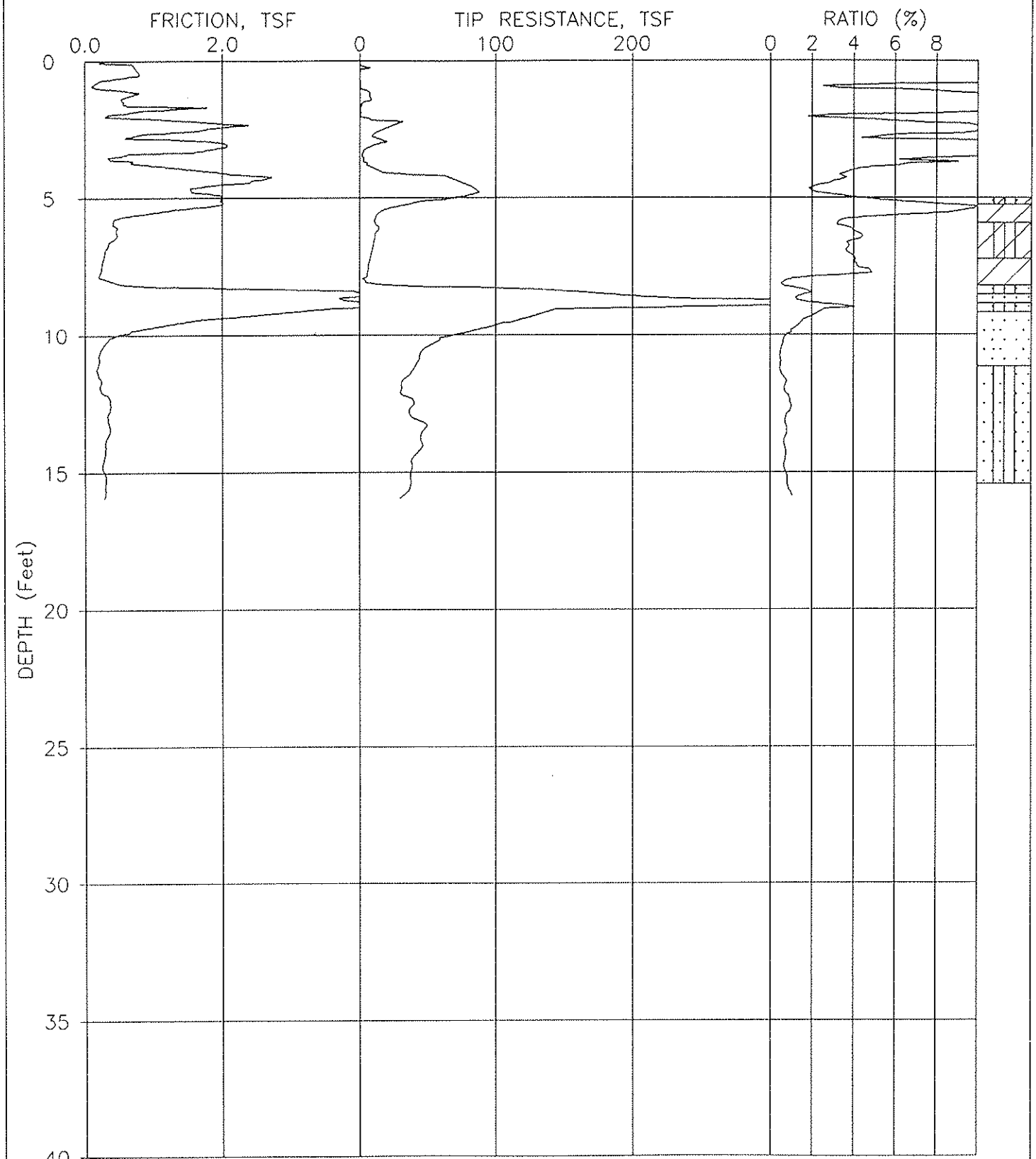
FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-1090 CPT NUMBER: CPT41 DATE: 09-22-2004

ELEVATION: 0.00 CONE NUMBER: F7.5CKEW1512 PLATE: 1 OF 1

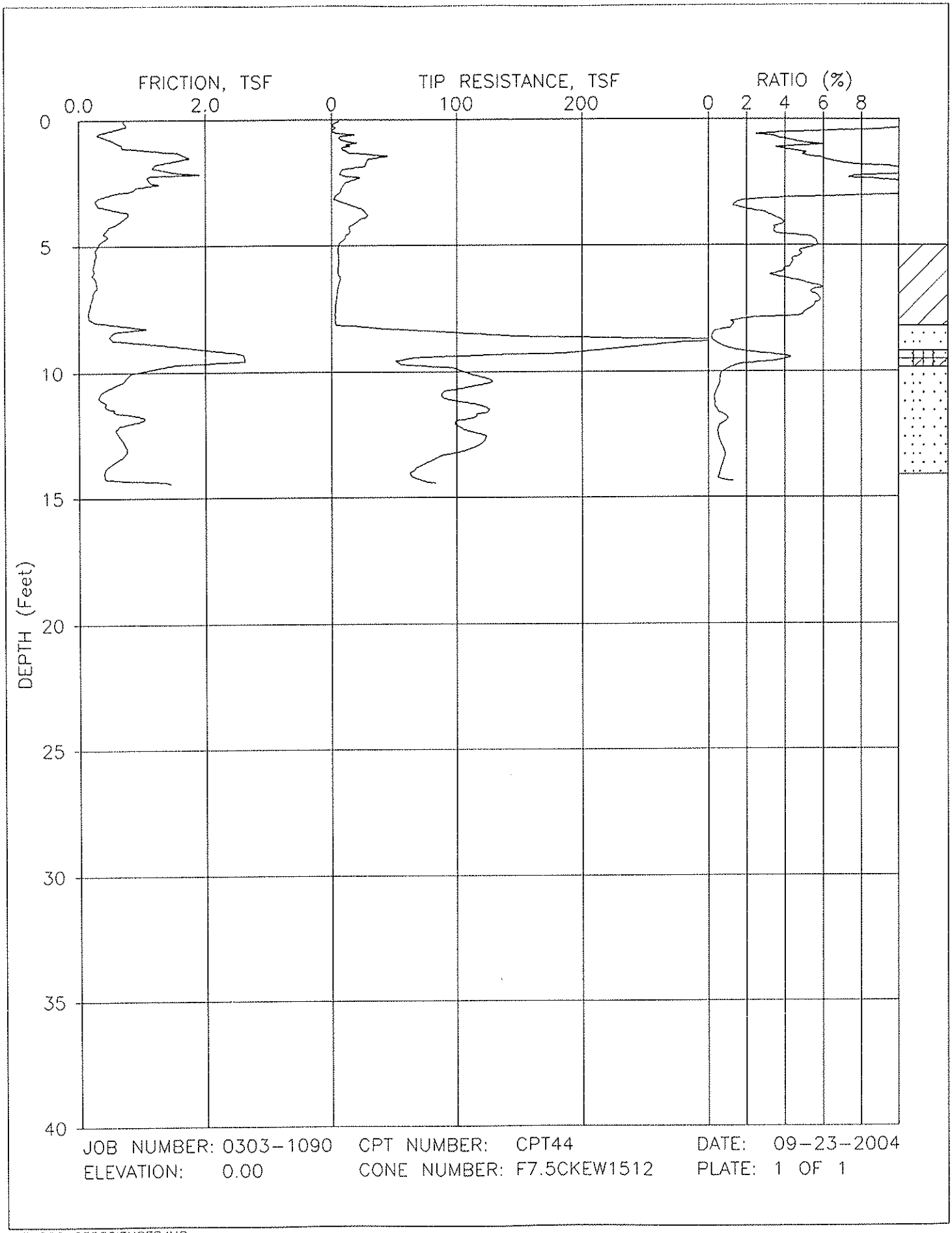
FUGRO GEOSCIENCES,INC



JOB NUMBER: 0303-1090 CPT NUMBER: CPT43 DATE: 09-23-2004

ELEVATION: 0.00 CONE NUMBER: F7.5CKEW1512 PLATE: 1 OF 1

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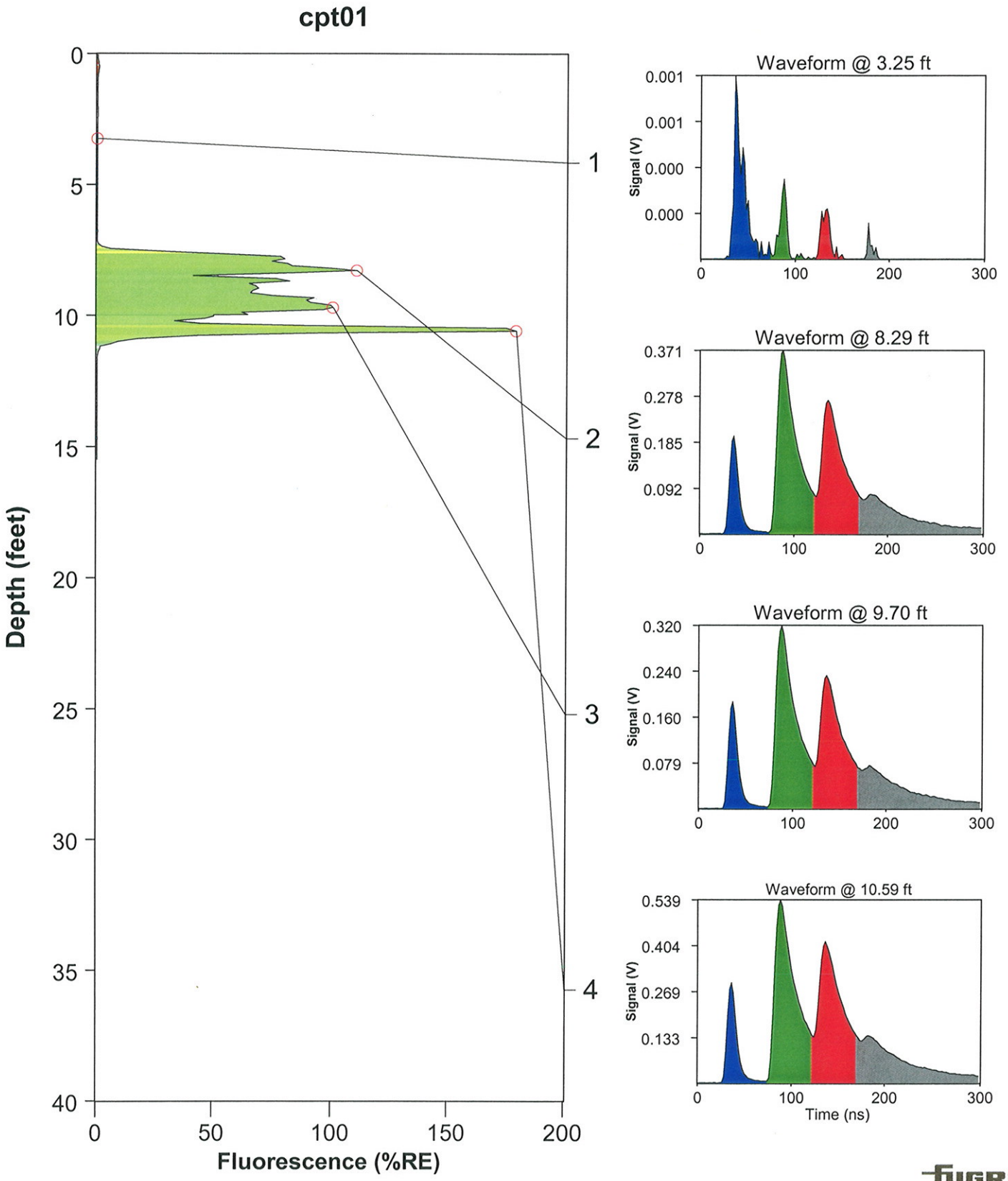


FUGRO GEOSCIENCES,INC

ROST™ LOGS

ROST Fluorescence Response Data

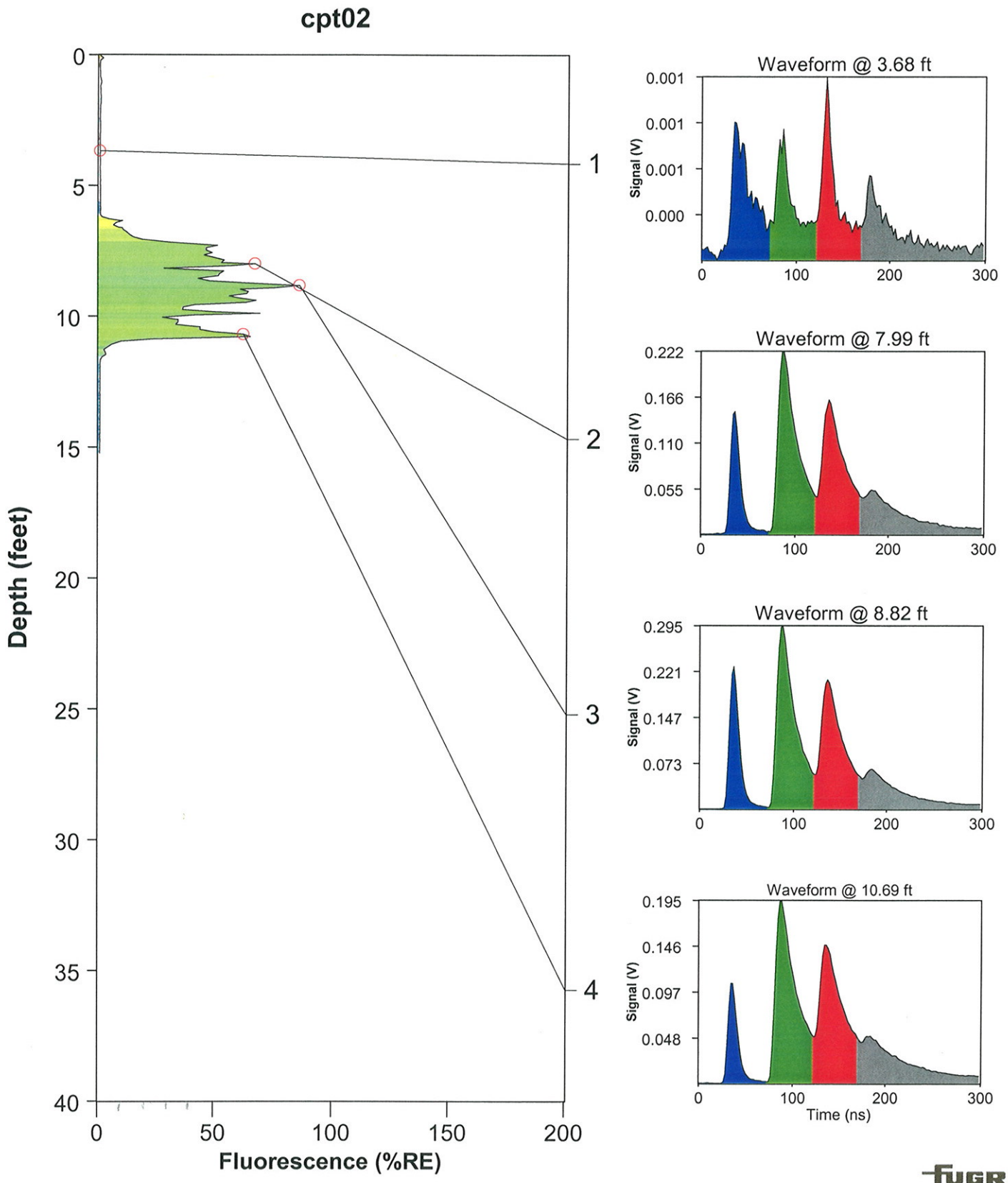
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 9:12:19 AM	Max fluorescence: 178.73% @ 10.59 ft
ROST Unit: 1	Final depth BGS: 15.50 ft



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ROST Fluorescence Response Data

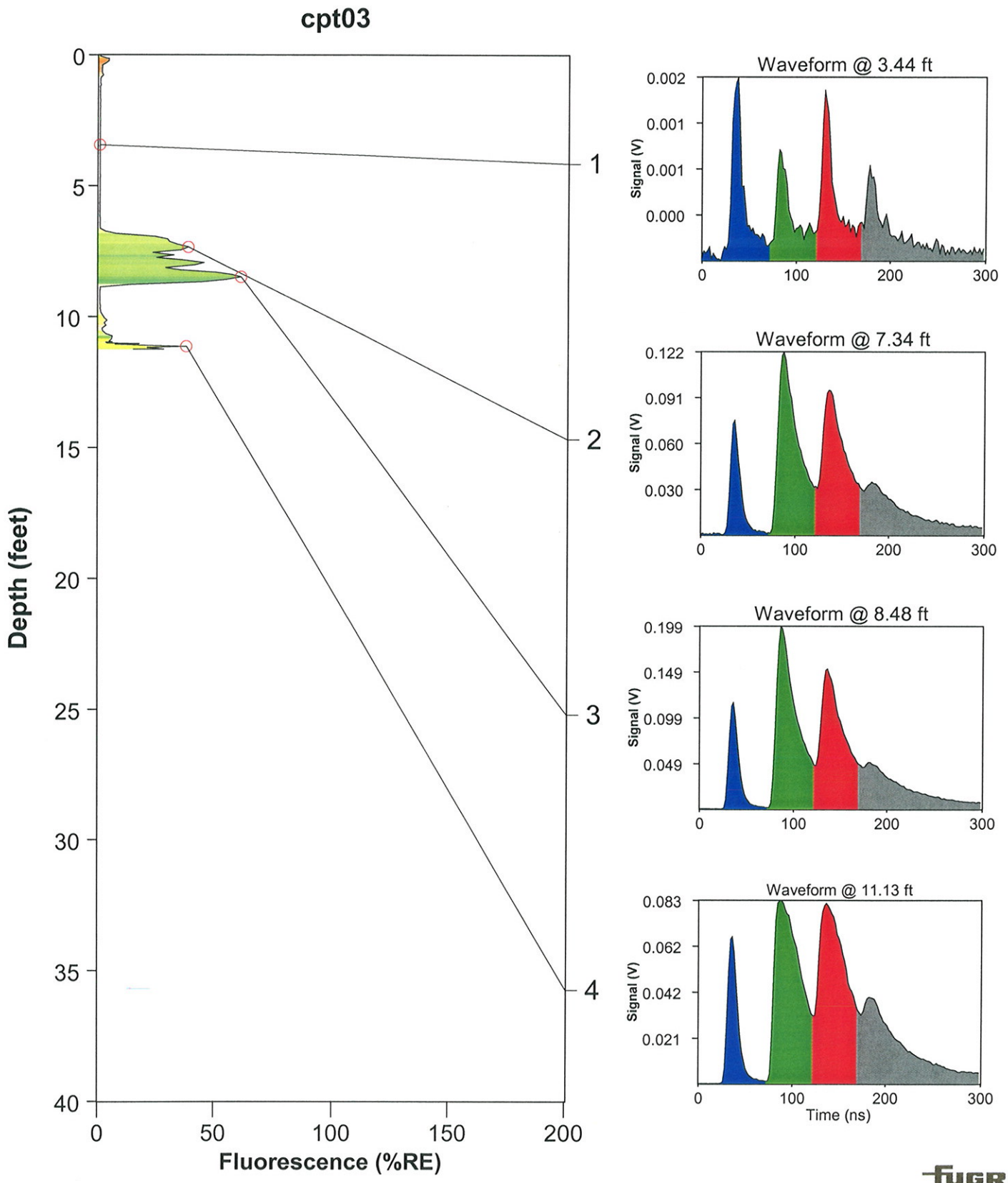
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/23/2004 @ 8:34:00 AM	Max fluorescence: 85.24% @ 8.82 ft
ROST Unit: 1	Final depth BGS: 15.24 ft



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ROST Fluorescence Response Data

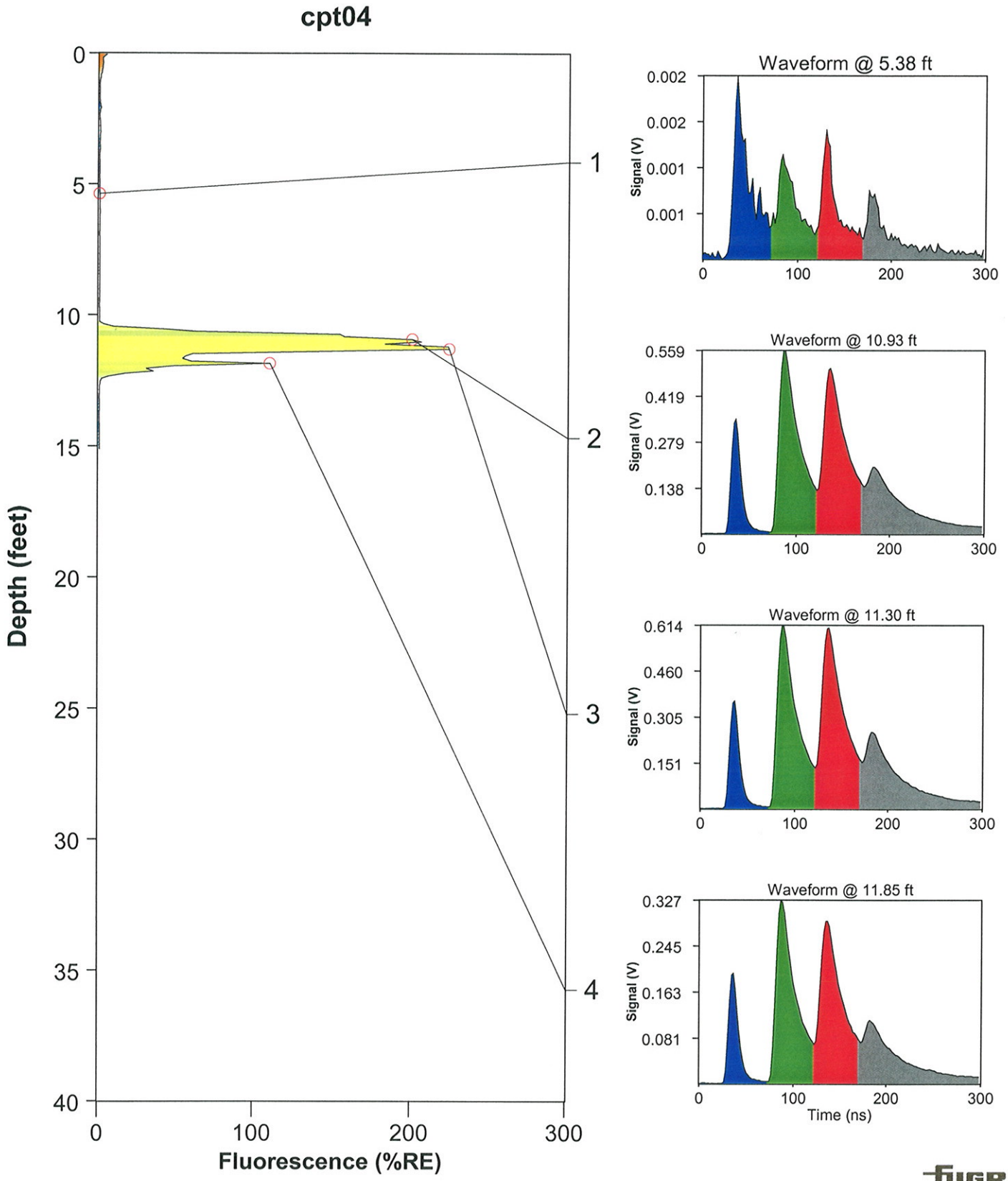
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/23/2004 @ 10:12:47 AM	Max fluorescence: 60.63% @ 8.48 ft
ROST Unit: 1	Final depth BGS: 11.25 ft



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ROST Fluorescence Response Data

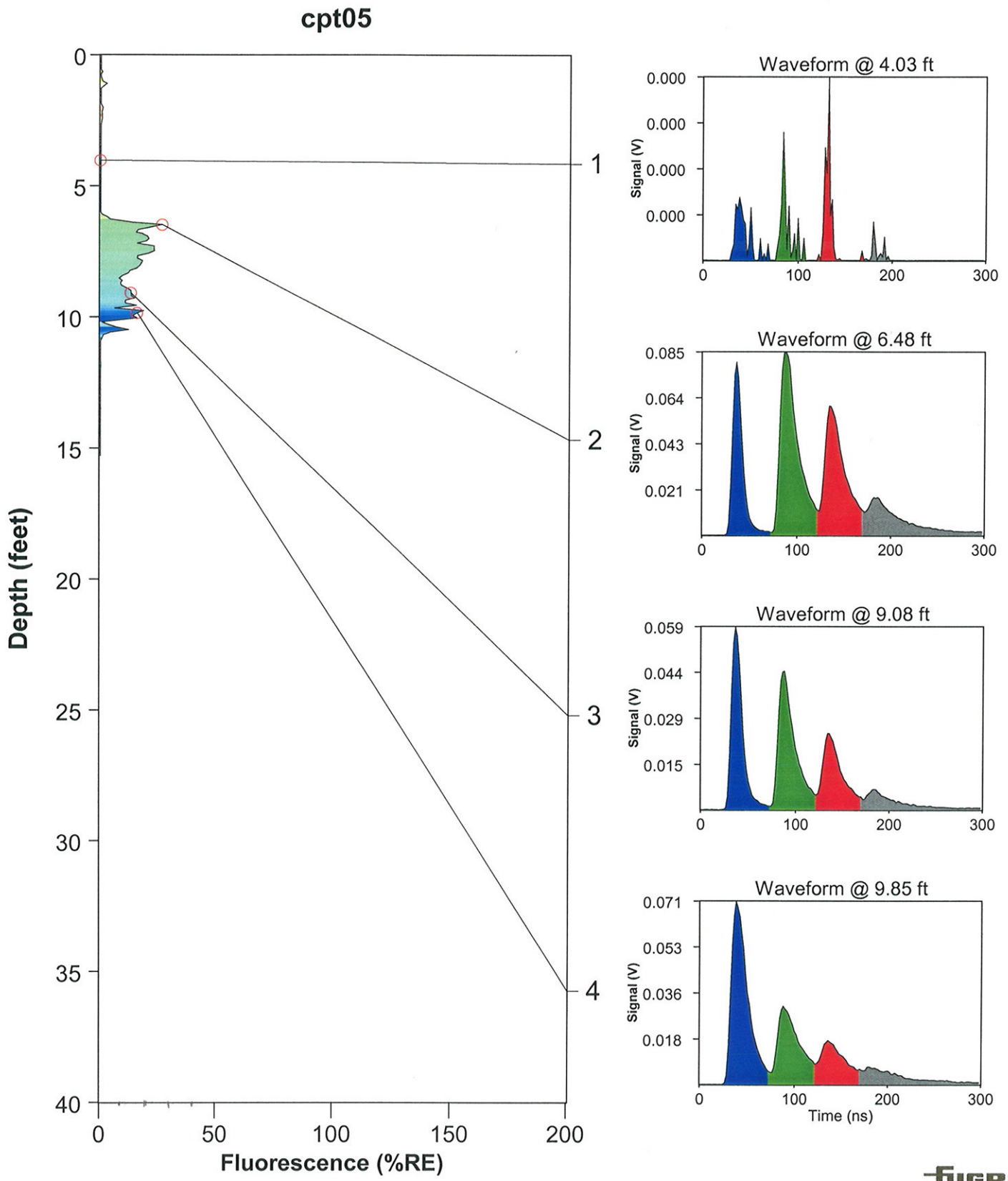
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 11:41:53 AM	Max fluorescence: 223.77% @ 11.30 ft
ROST Unit: 1	Final depth BGS: 15.12 ft



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ROST Fluorescence Response Data

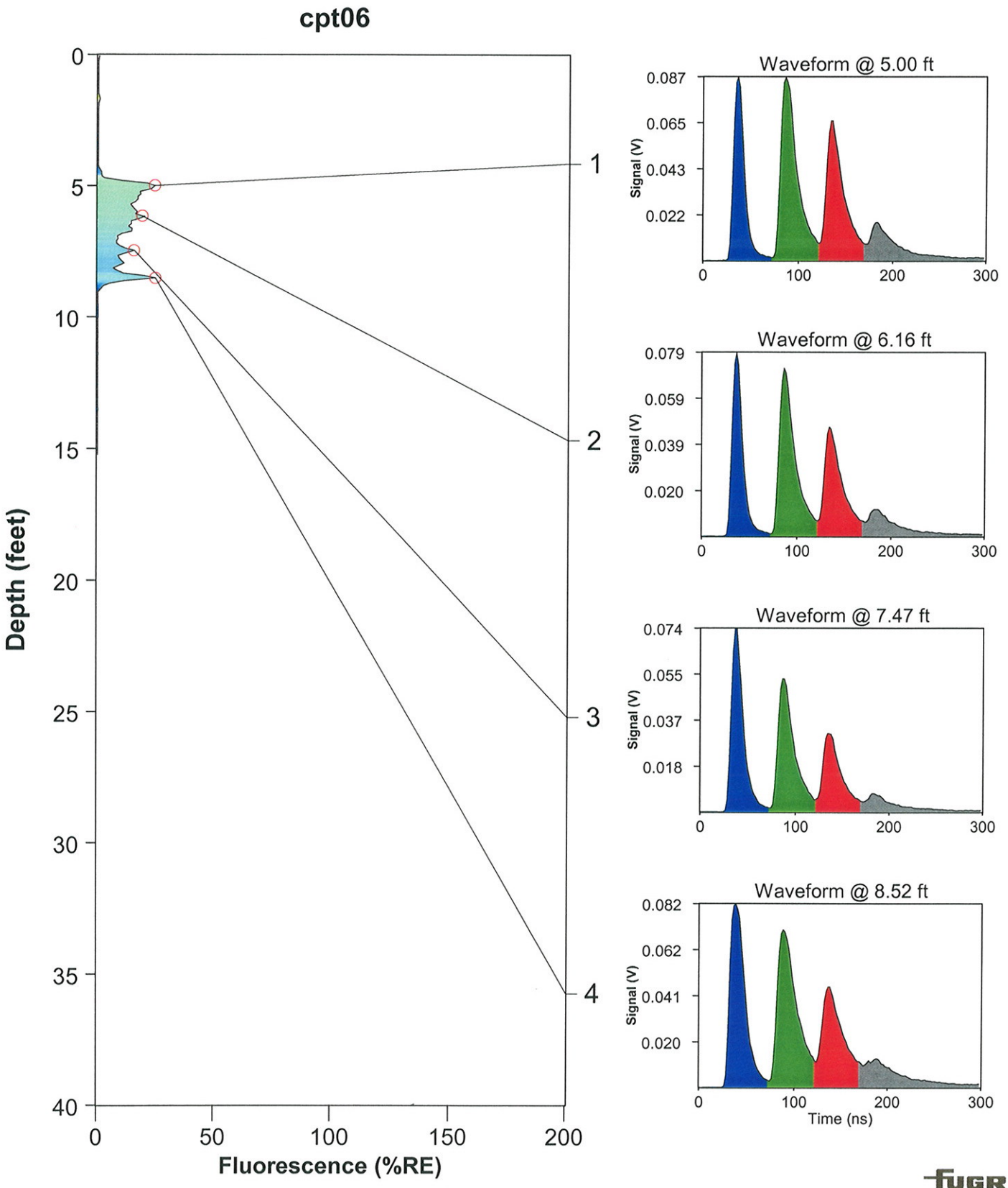
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 10:47:57 AM	Max fluorescence: 26.48% @ 6.48 ft
ROST Unit: 1	Final depth BGS: 15.30 ft



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ROST Fluorescence Response Data

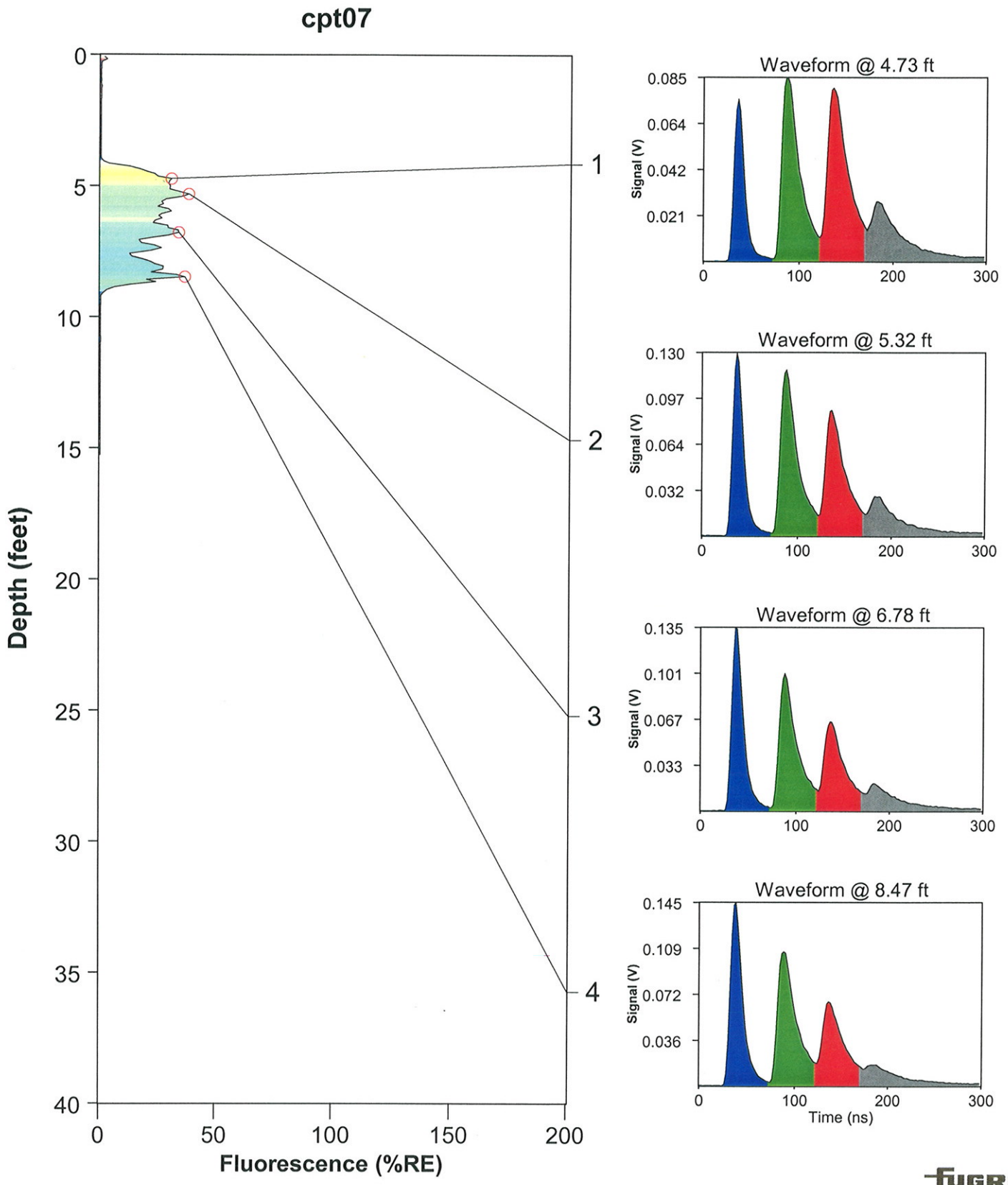
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 11:21:41 AM	Max fluorescence: 24.59% @ 8.52 ft
ROST Unit: 1	Final depth BGS: 15.25 ft



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ROST Fluorescence Response Data

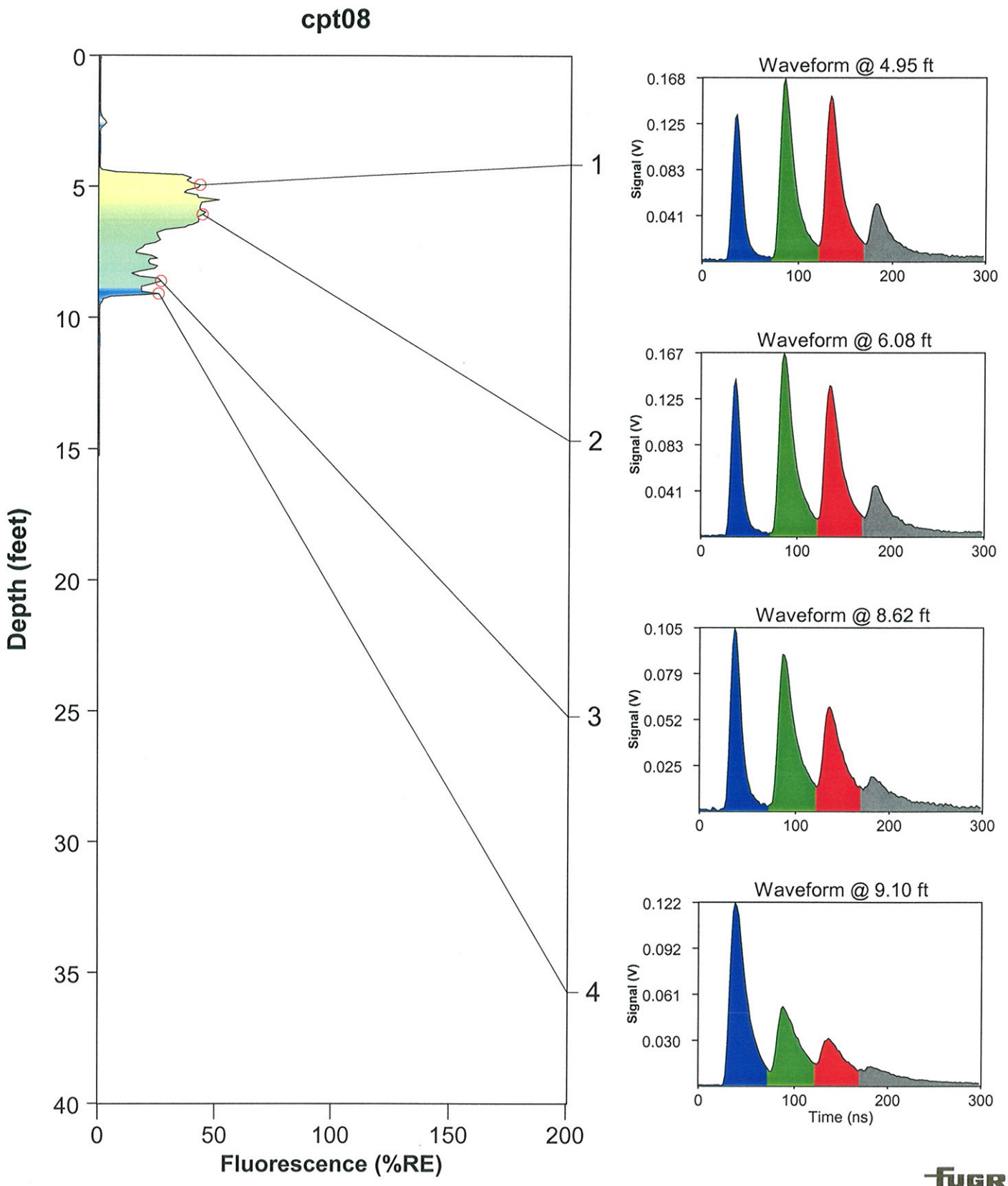
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 11:04:39 AM	Max fluorescence: 37.71% @ 5.32 ft
ROST Unit: 1	Final depth BGS: 15.27 ft



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ROST Fluorescence Response Data

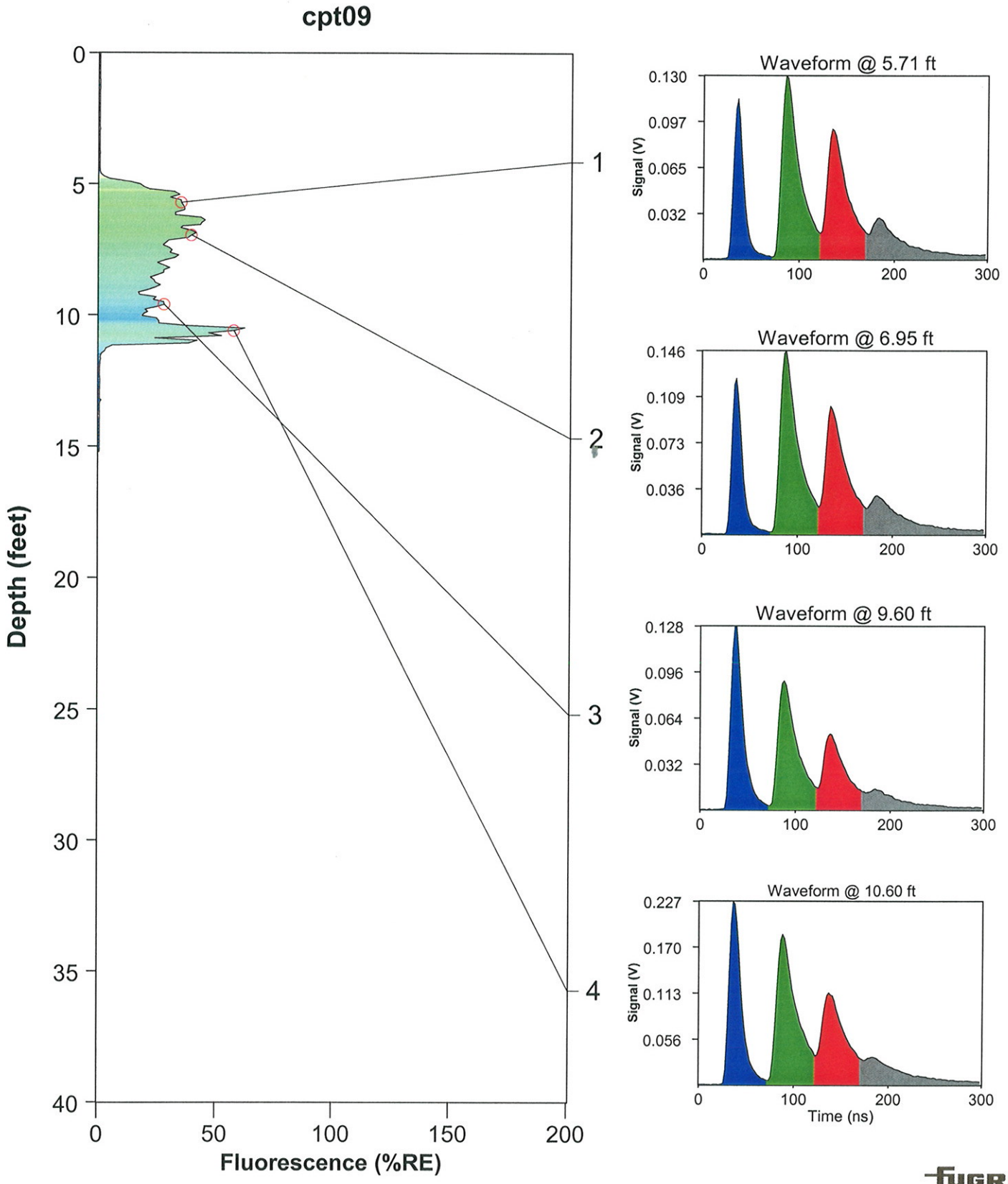
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 11:37:44 AM	Max fluorescence: 50.69% @ 5.52 ft
ROST Unit: 1	Final depth BGS: 15.28 ft



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ROST Fluorescence Response Data

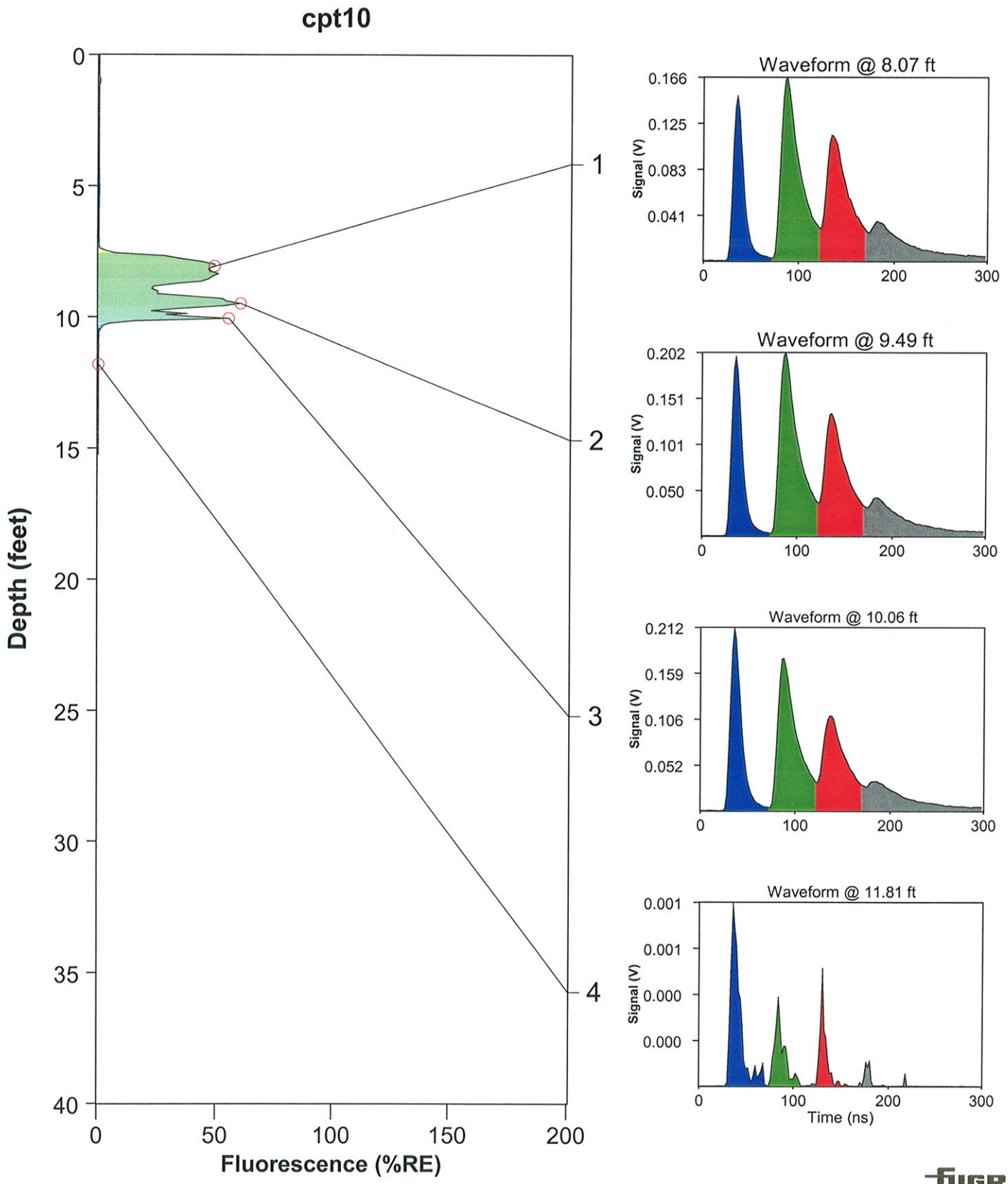
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 11:55:54 AM	Max fluorescence: 61.64% @ 10.50 ft
ROST Unit: 1	Final depth BGS: 15.23 ft



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ROST Fluorescence Response Data

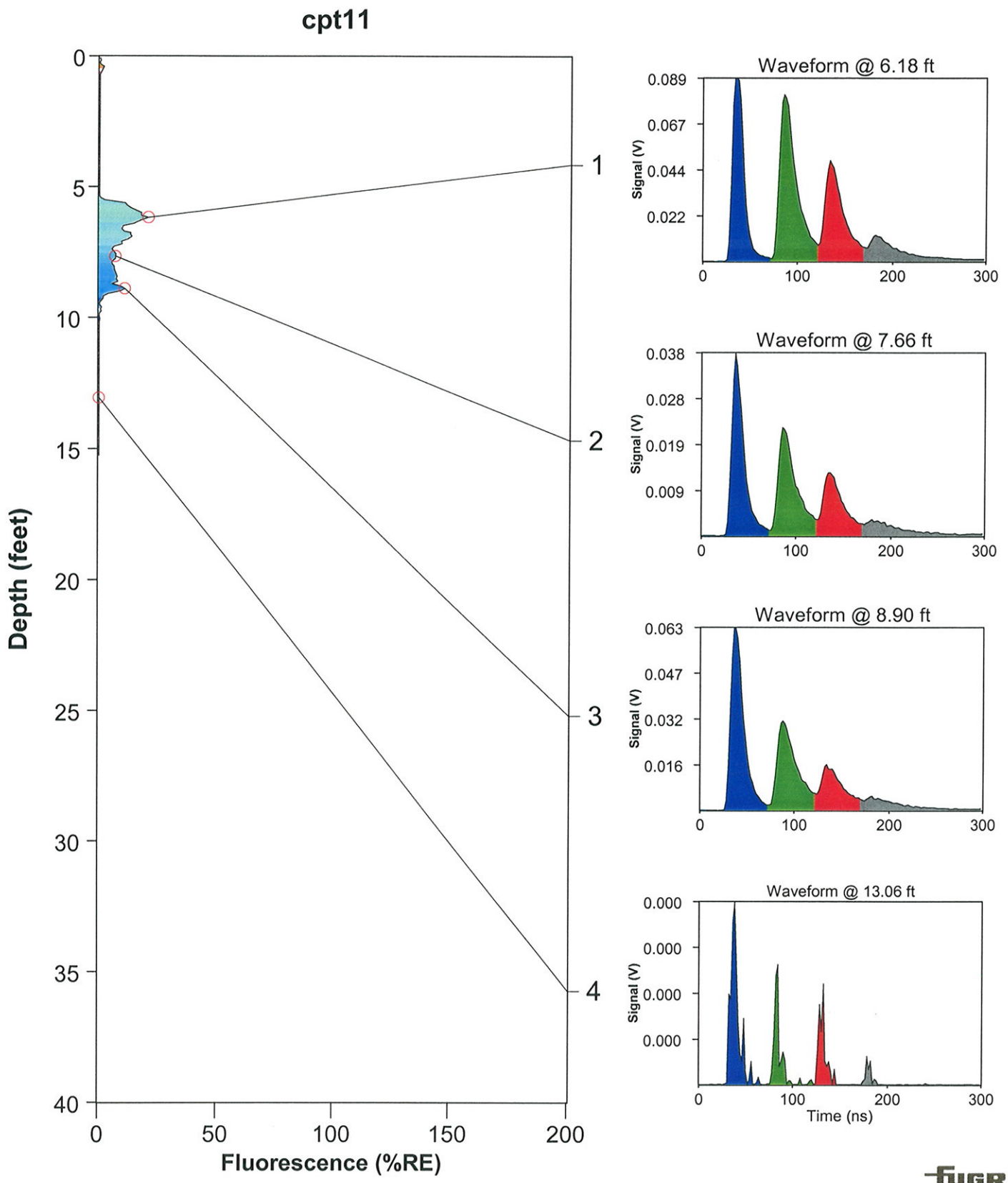
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 1:10:28 PM	Max fluorescence: 59.77% @ 9.49 ft
ROST Unit: 1	Final depth BGS: 15.25 ft



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ROST Fluorescence Response Data

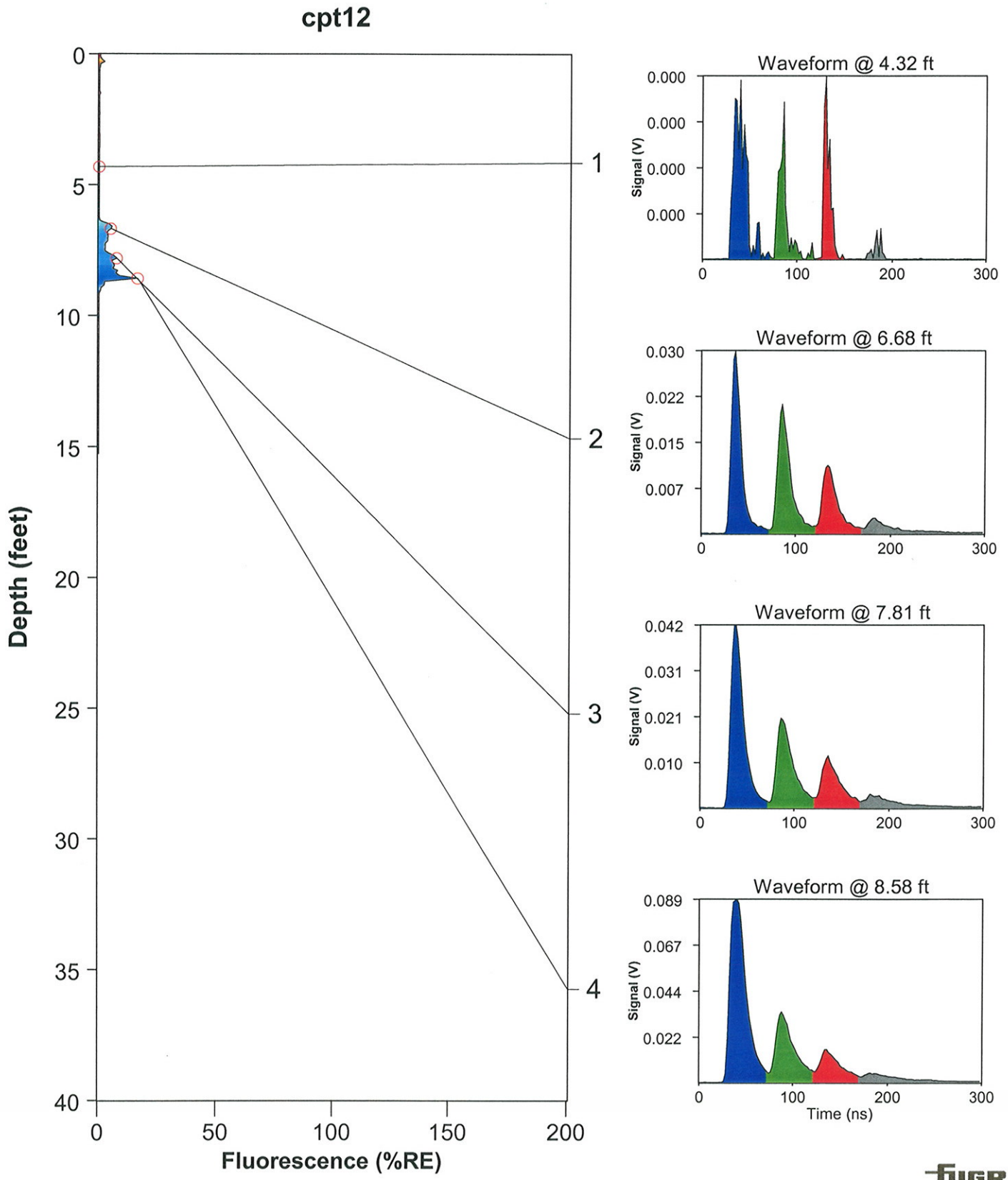
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 1:27:22 PM	Max fluorescence: 20.77% @ 6.18 ft
ROST Unit: 1	Final depth BGS: 15.27 ft



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ROST Fluorescence Response Data

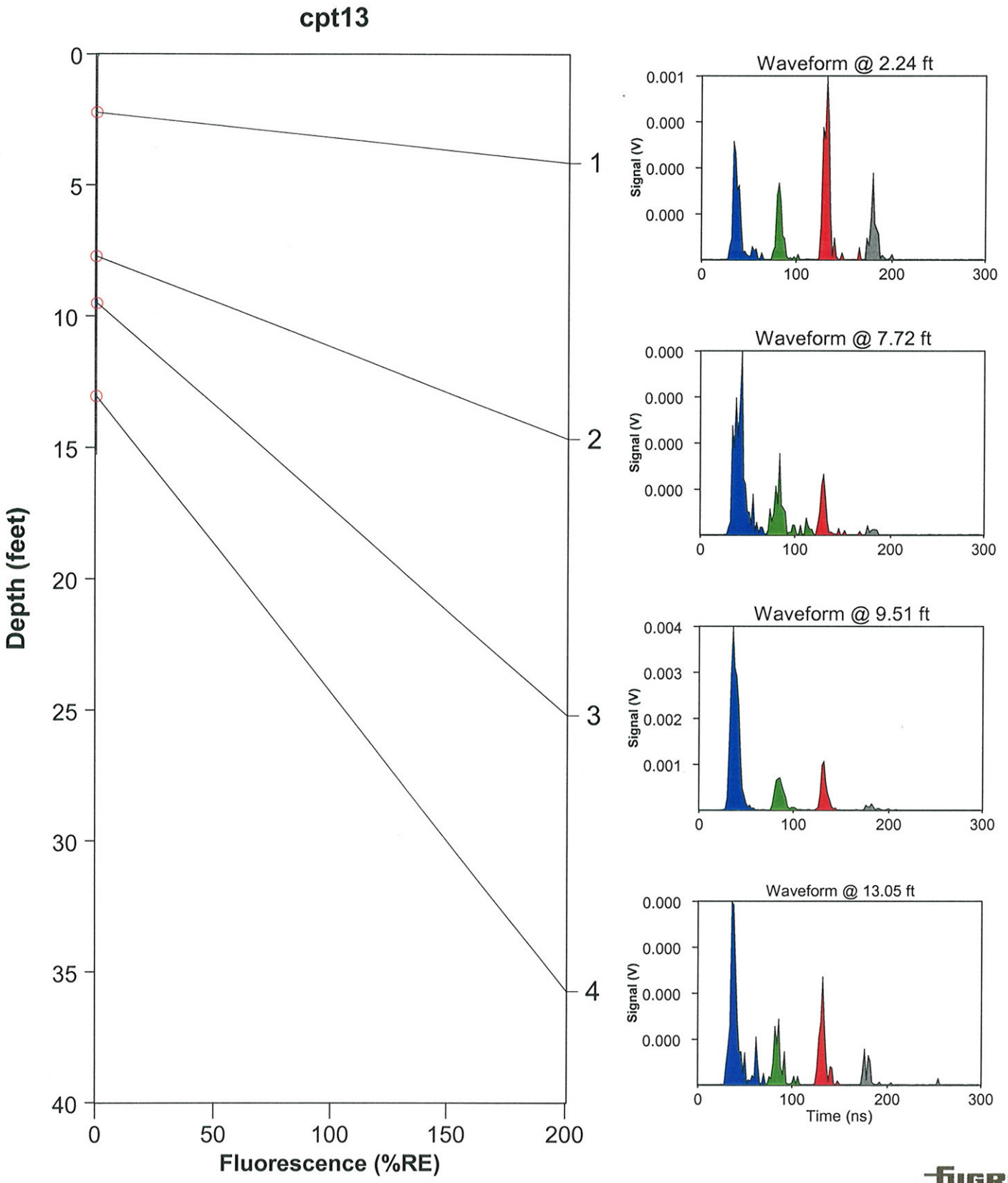
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 1:43:57 PM	Max fluorescence: 16.55% @ 8.58 ft
ROST Unit: 1	Final depth BGS: 15.28 ft



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ROST Fluorescence Response Data

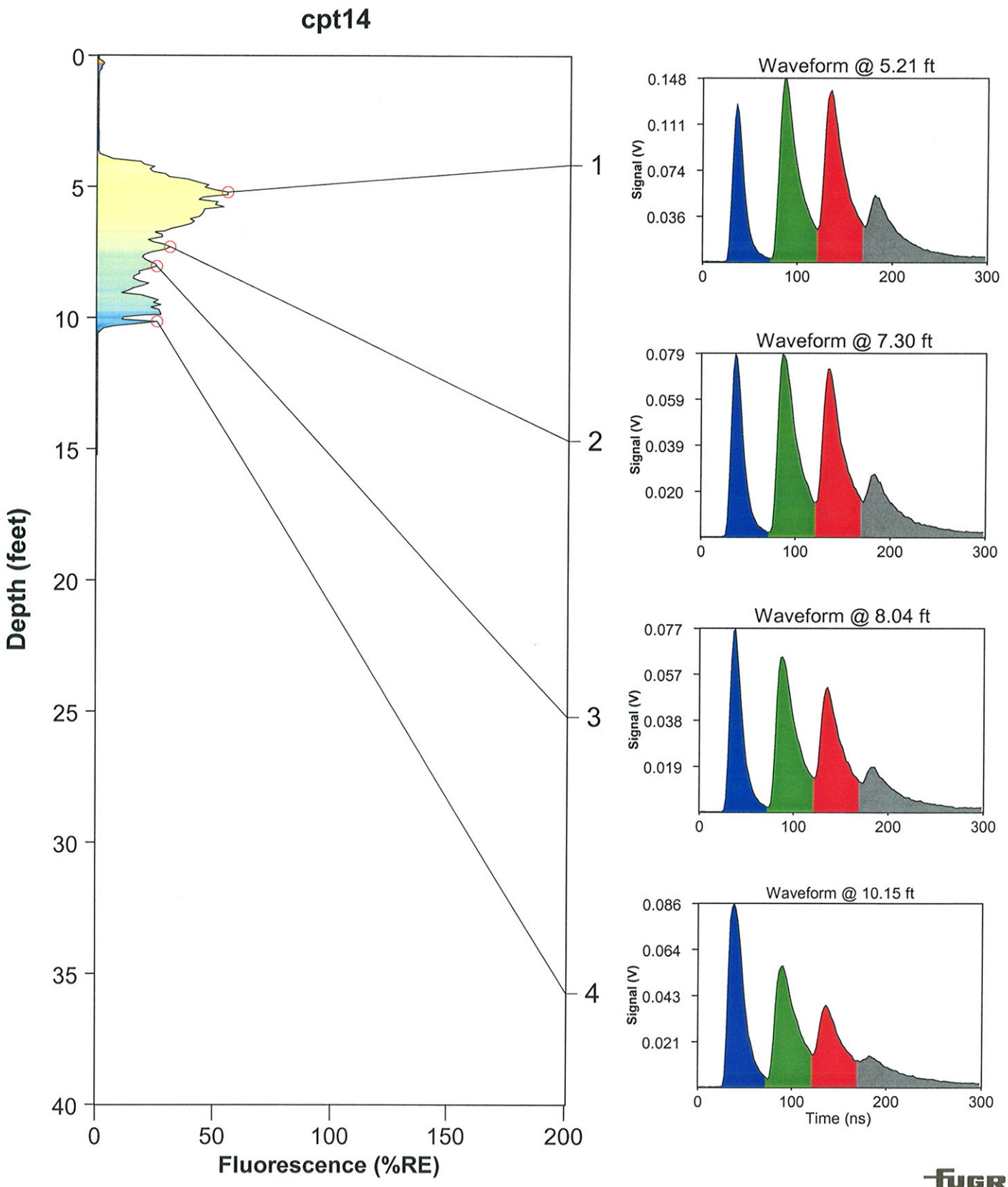
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 2:03:23 PM	Max fluorescence: 0.54% @ 0.04 ft
ROST Unit: 1	Final depth BGS: 15.27 ft



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ROST Fluorescence Response Data

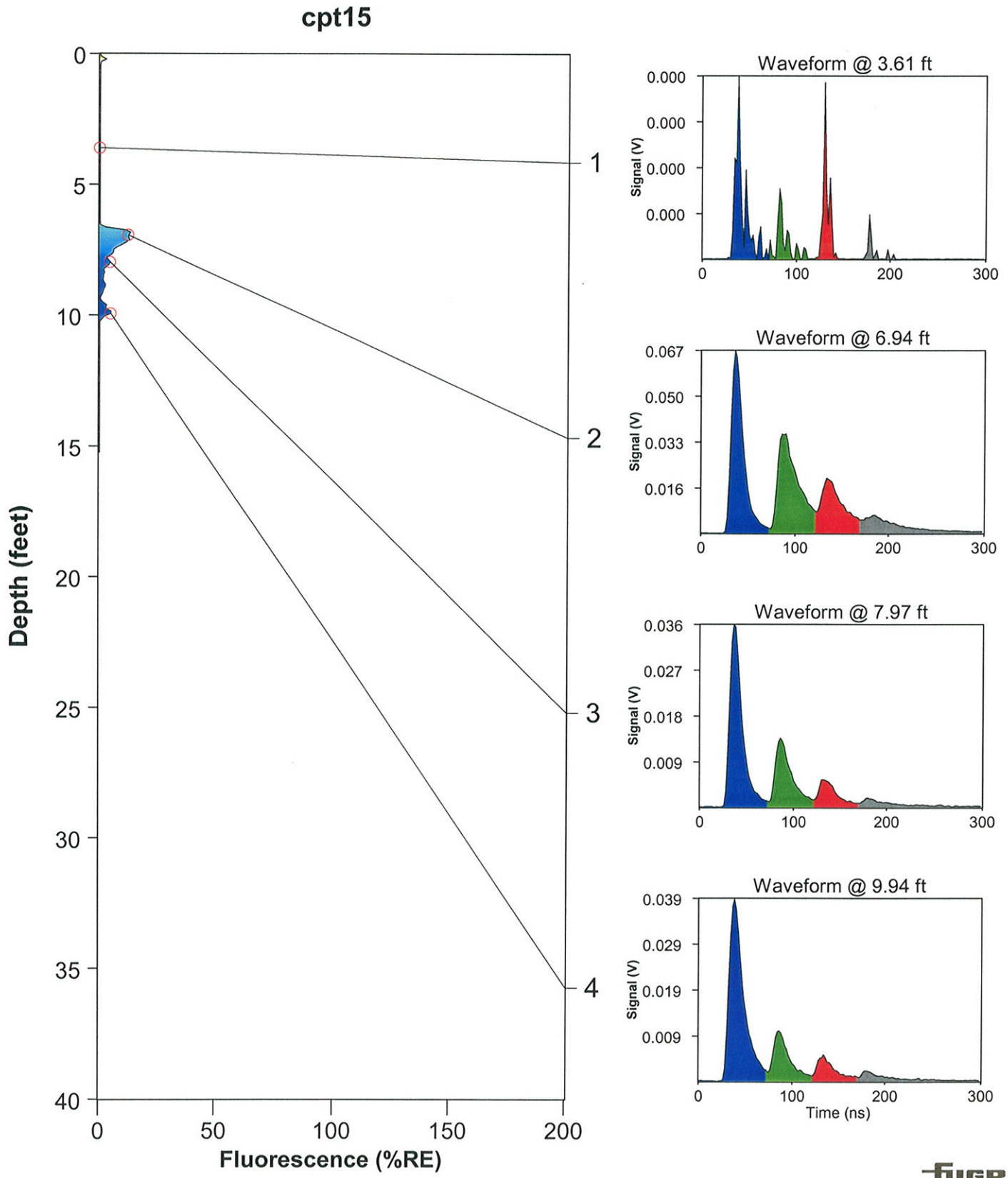
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 2:20:42 PM	Max fluorescence: 54.80% @ 5.21 ft
ROST Unit: 1	Final depth BGS: 15.24 ft



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ROST Fluorescence Response Data

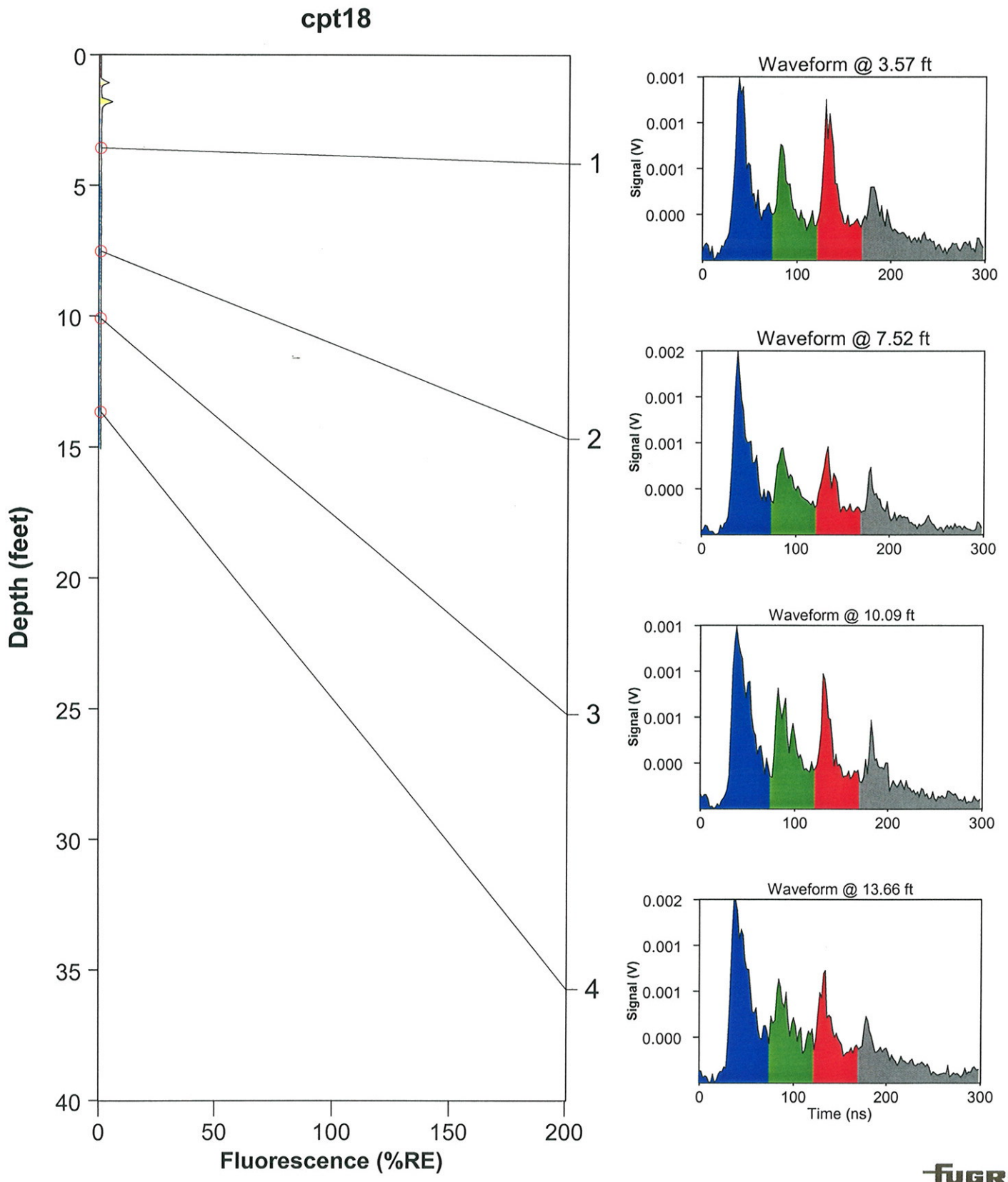
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 2:37:11 PM	Max fluorescence: 13.21% @ 6.84 ft
ROST Unit: 1	Final depth BGS: 15.25 ft



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ROST Fluorescence Response Data

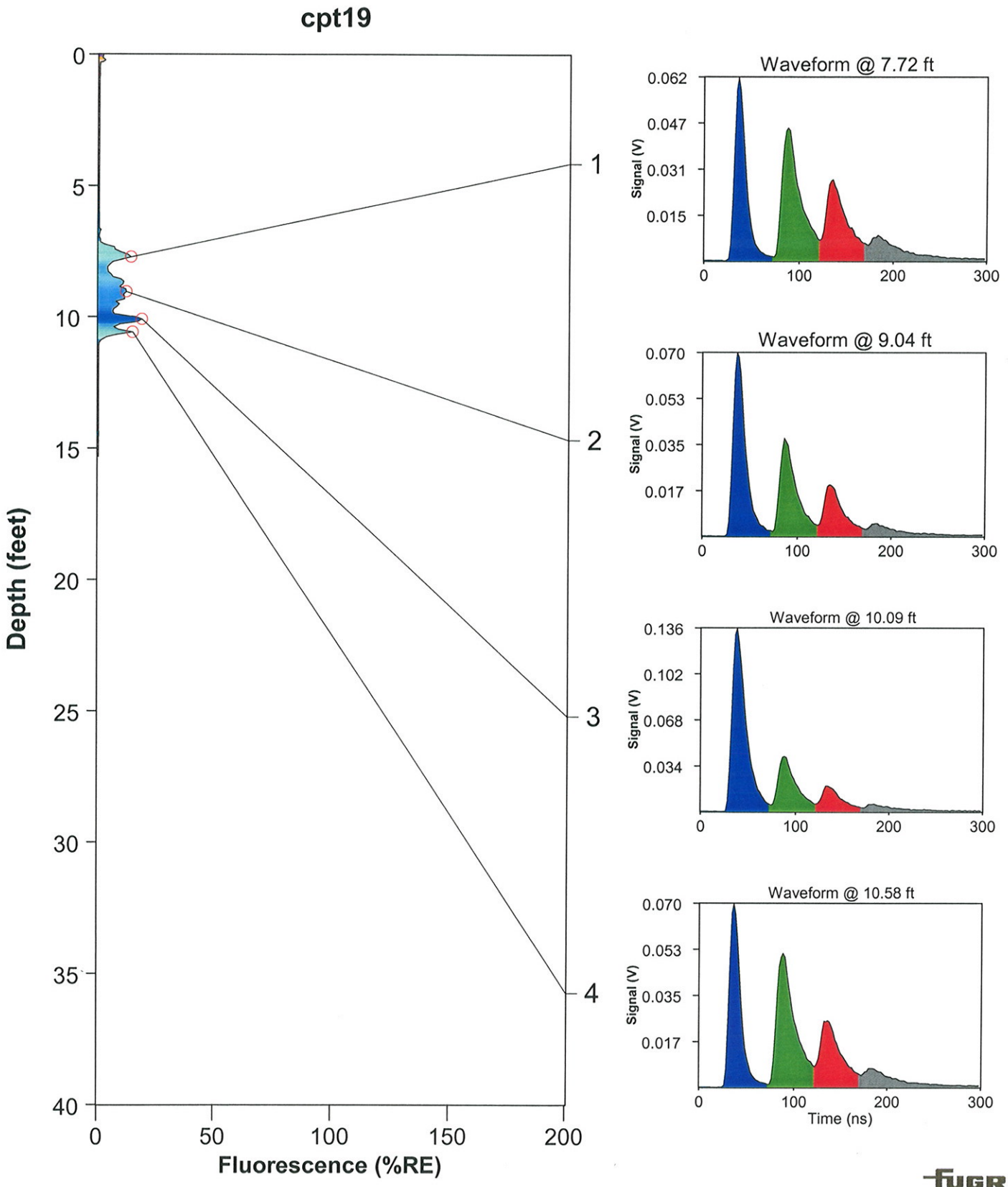
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/23/2004 @ 7:18:04 AM	Max fluorescence: 5.27% @ 1.81 ft
ROST Unit: 1	Final depth BGS: 15.09 ft



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ROST Fluorescence Response Data

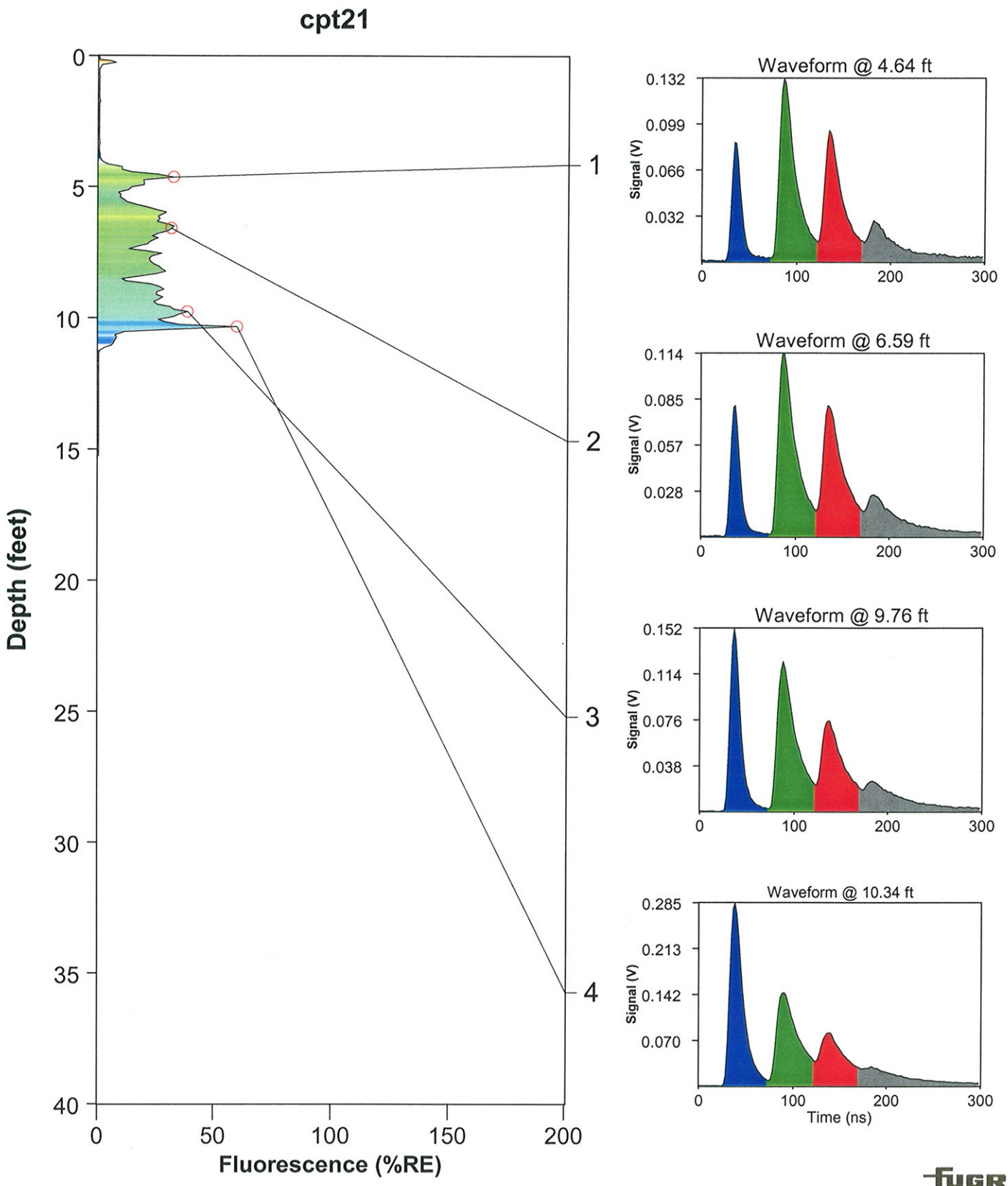
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 4:03:36 PM	Max fluorescence: 18.53% @ 10.09 ft
ROST Unit: 1	Final depth BGS: 15.33 ft



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ROST Fluorescence Response Data

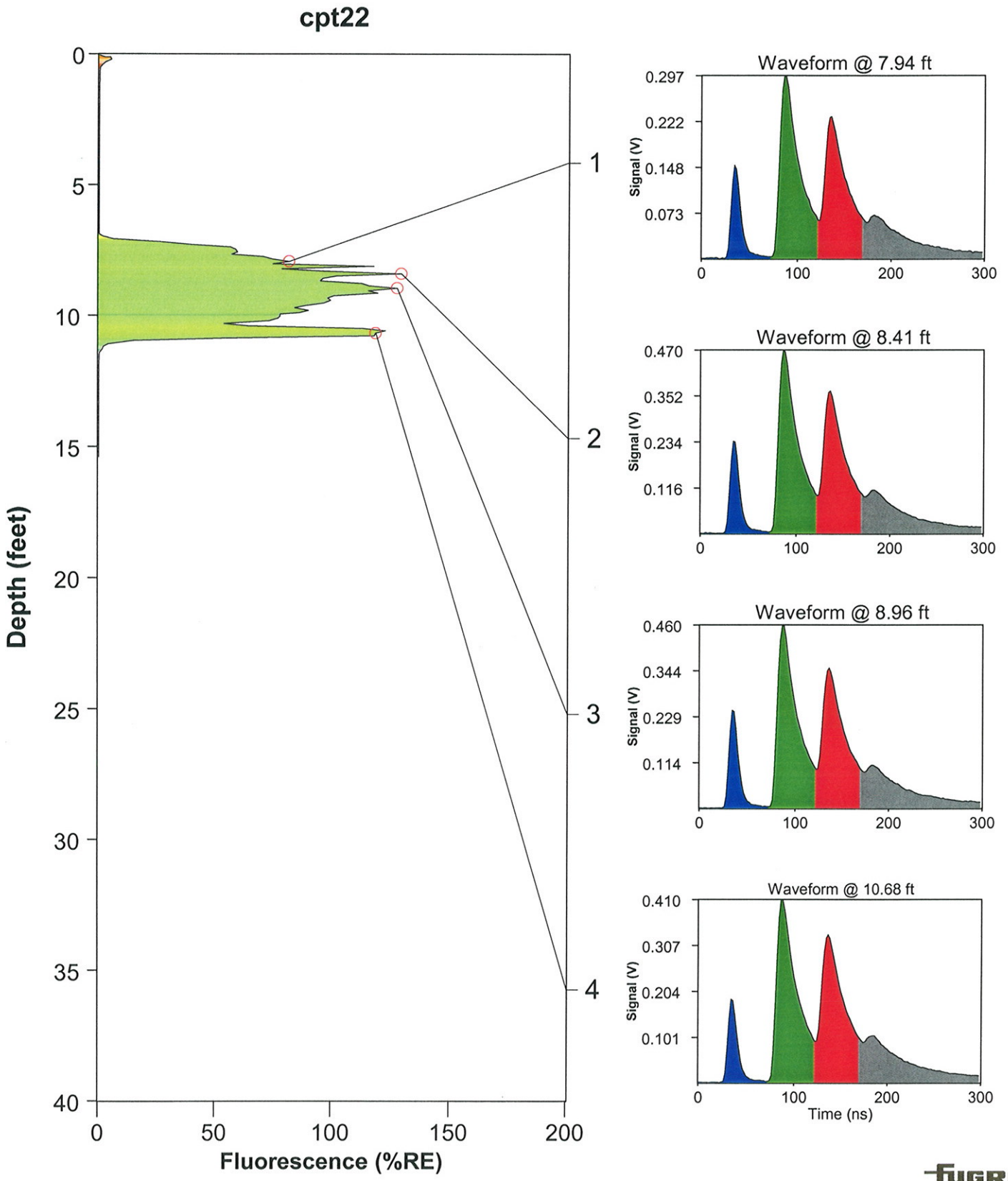
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 4:38:09 PM	Max fluorescence: 59.27% @ 10.34 ft
ROST Unit: 1	Final depth BGS: 15.26 ft



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ROST Fluorescence Response Data

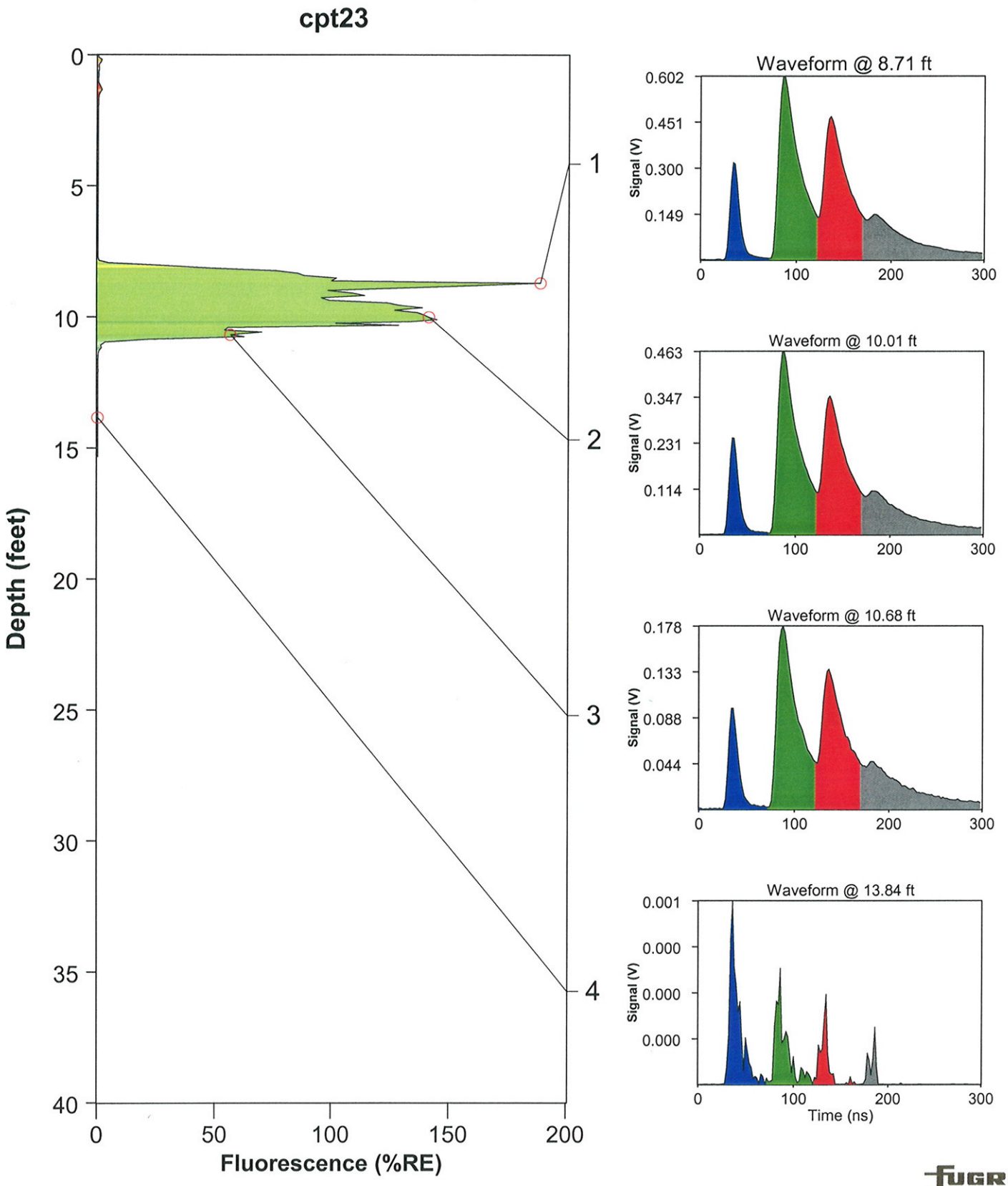
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 4:59:44 PM	Max fluorescence: 128.73% @ 8.41 ft
ROST Unit: 1	Final depth BGS: 15.40 ft



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ROST Fluorescence Response Data

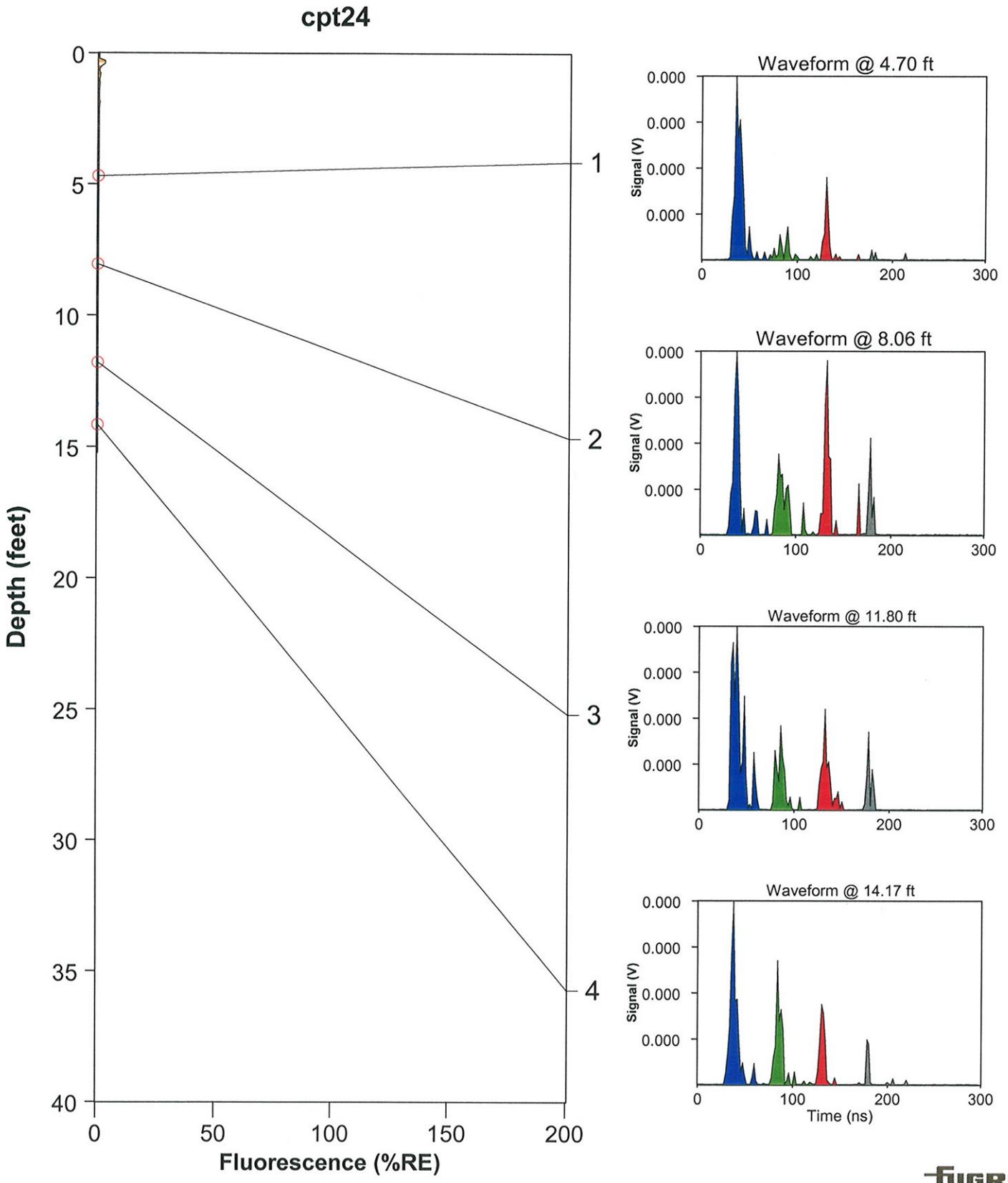
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 5:17:01 PM	Max fluorescence: 188.11% @ 8.71 ft
ROST Unit: 1	Final depth BGS: 15.34 ft



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ROST Fluorescence Response Data

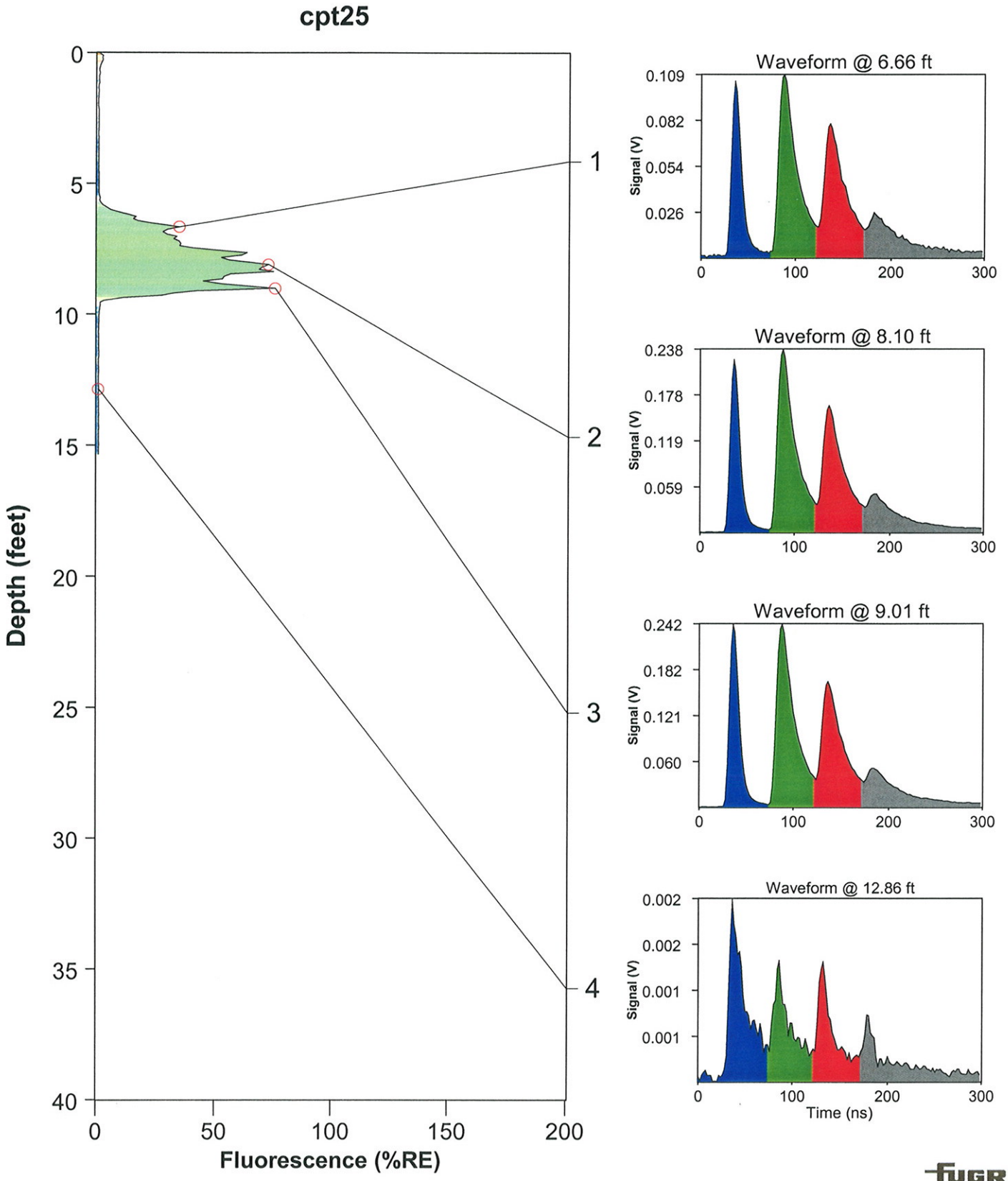
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/21/2004 @ 5:40:36 PM	Max fluorescence: 2.50% @ 0.30 ft
ROST Unit: 1	Final depth BGS: 15.25 ft



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ROST Fluorescence Response Data

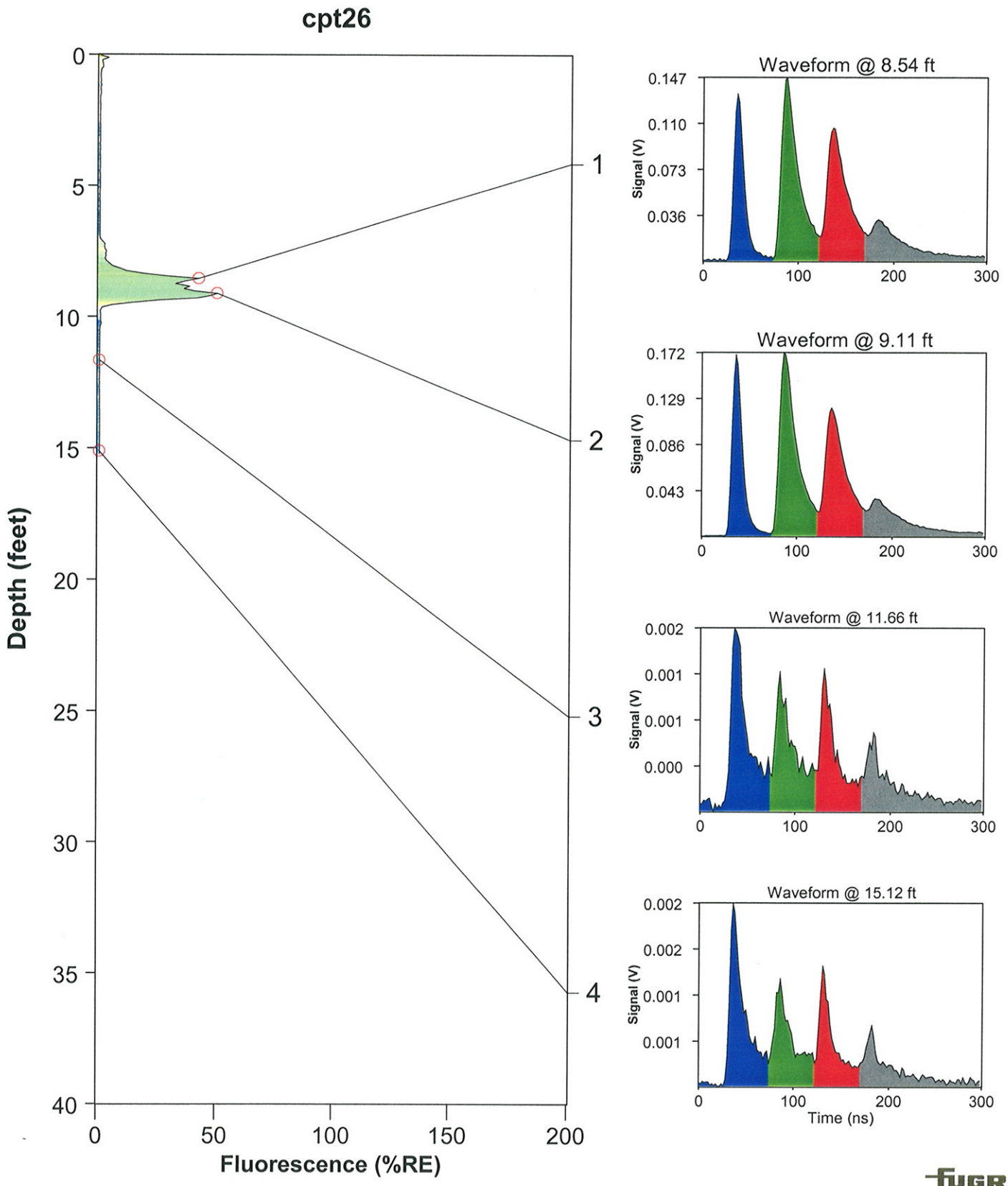
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 8:38:07 AM	Max fluorescence: 75.26% @ 9.01 ft
ROST Unit: 1	Final depth BGS: 15.35 ft



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ROST Fluorescence Response Data

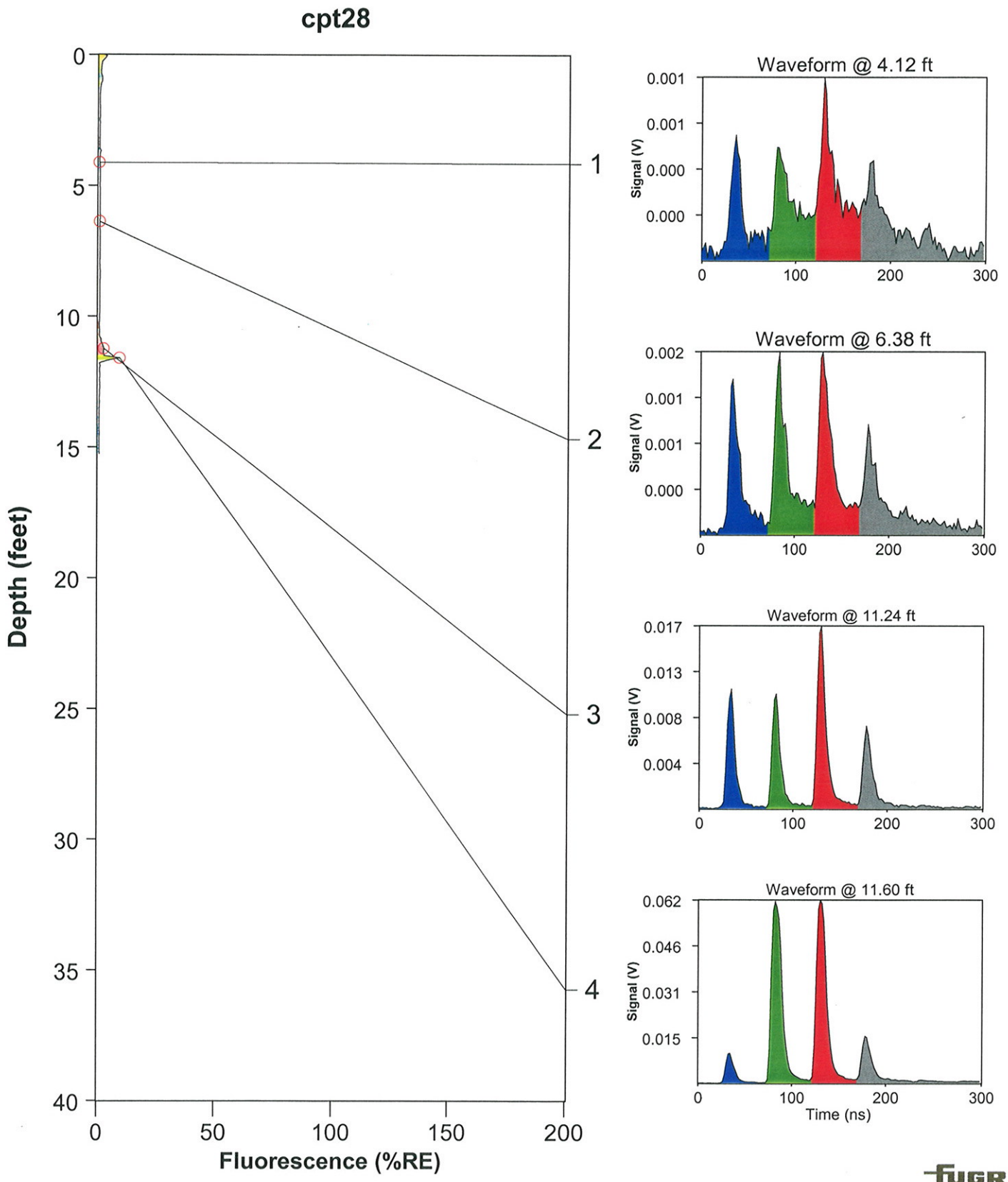
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 9:00:12 AM	Max fluorescence: 49.89% @ 9.11 ft
ROST Unit: 1	Final depth BGS: 15.24 ft



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ROST Fluorescence Response Data

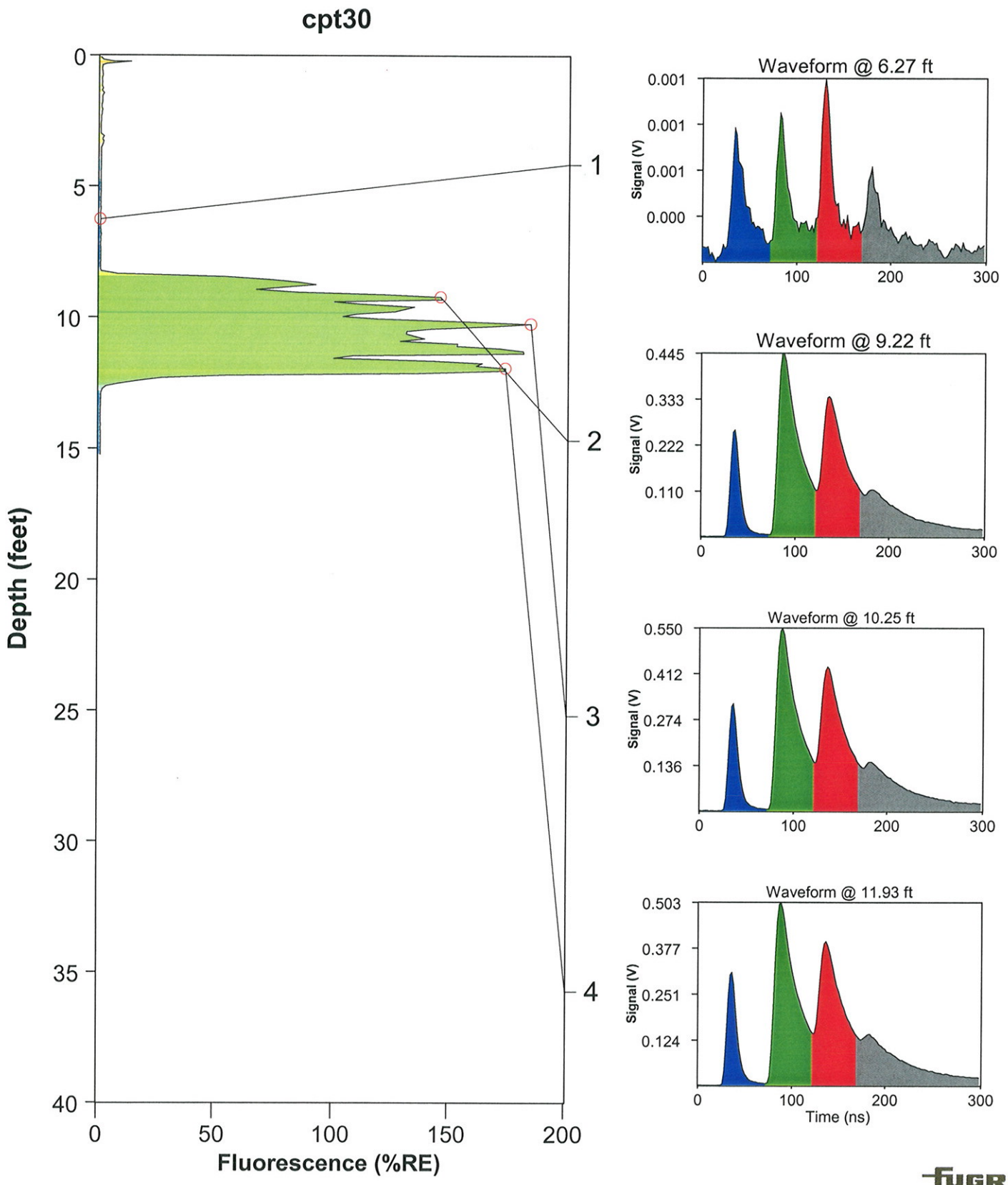
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 11:06:10 AM	Max fluorescence: 9.15% @ 11.60 ft
ROST Unit: 1	Final depth BGS: 15.26 ft



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ROST Fluorescence Response Data

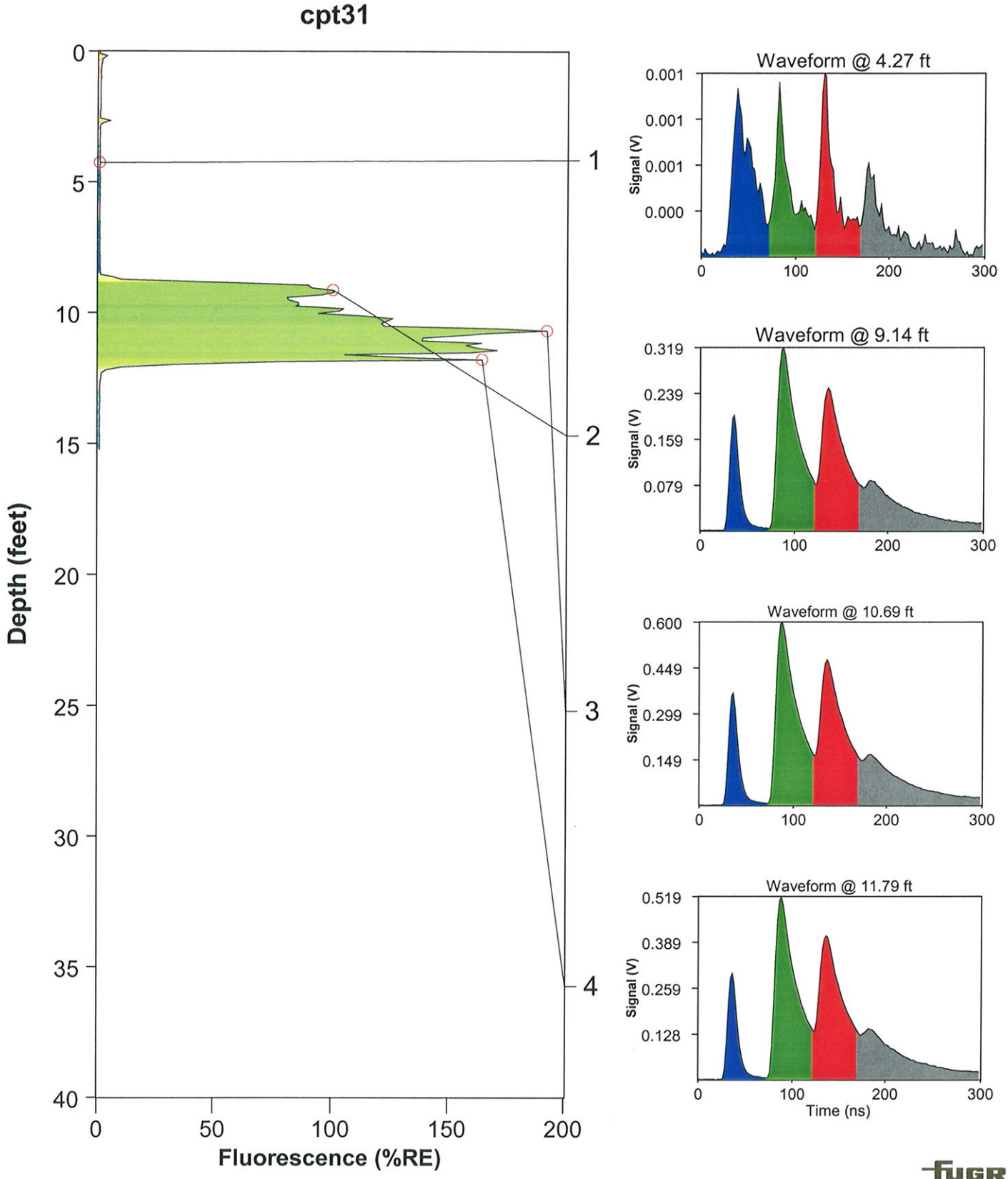
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 12:58:55 PM	Max fluorescence: 184.24% @ 10.25 ft
ROST Unit: 1	Final depth BGS: 15.25 ft



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ROST Fluorescence Response Data

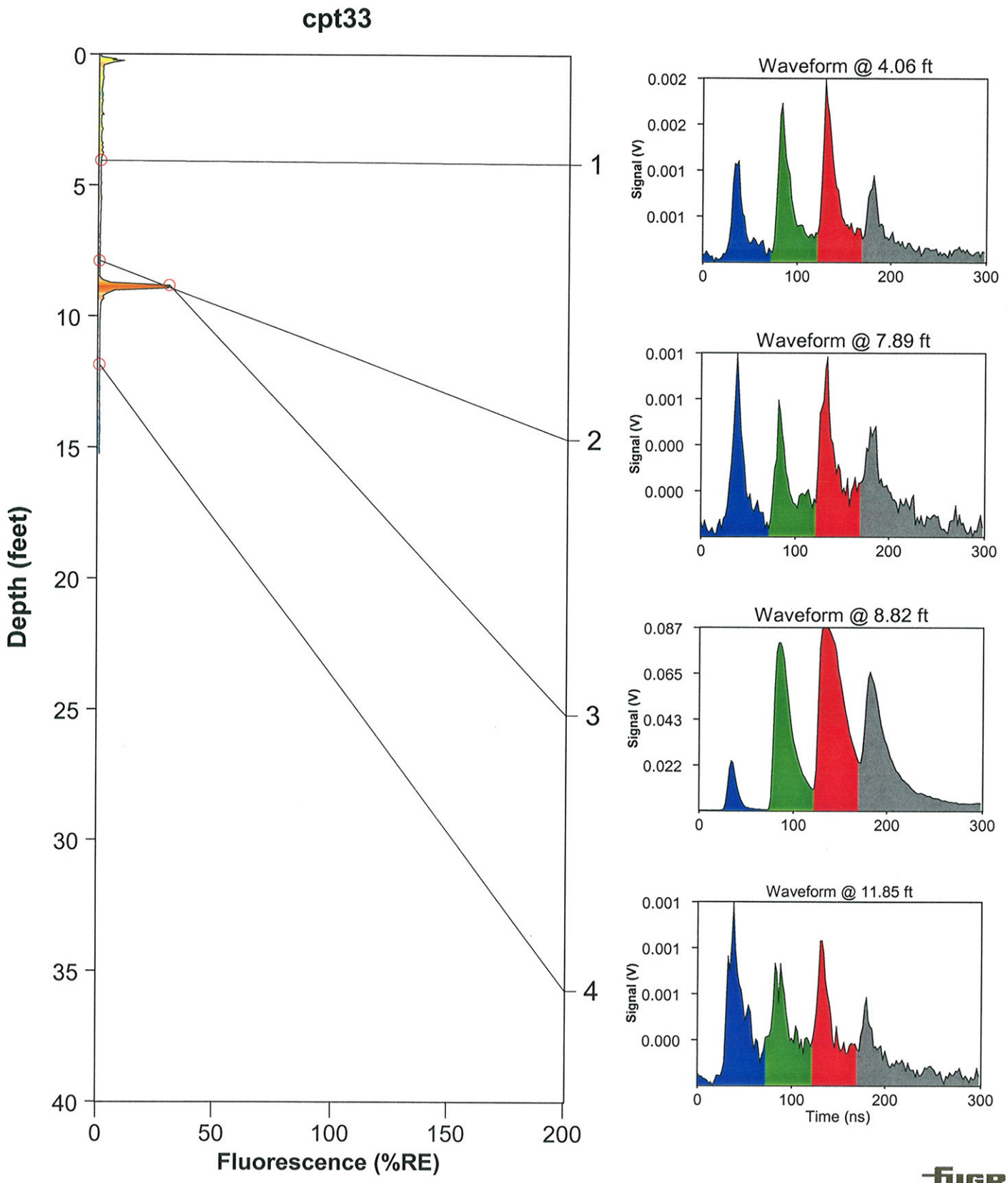
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 1:23:40 PM	Max fluorescence: 191.57% @ 10.69 ft
ROST Unit: 1	Final depth BGS: 15.24 ft



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ROST Fluorescence Response Data

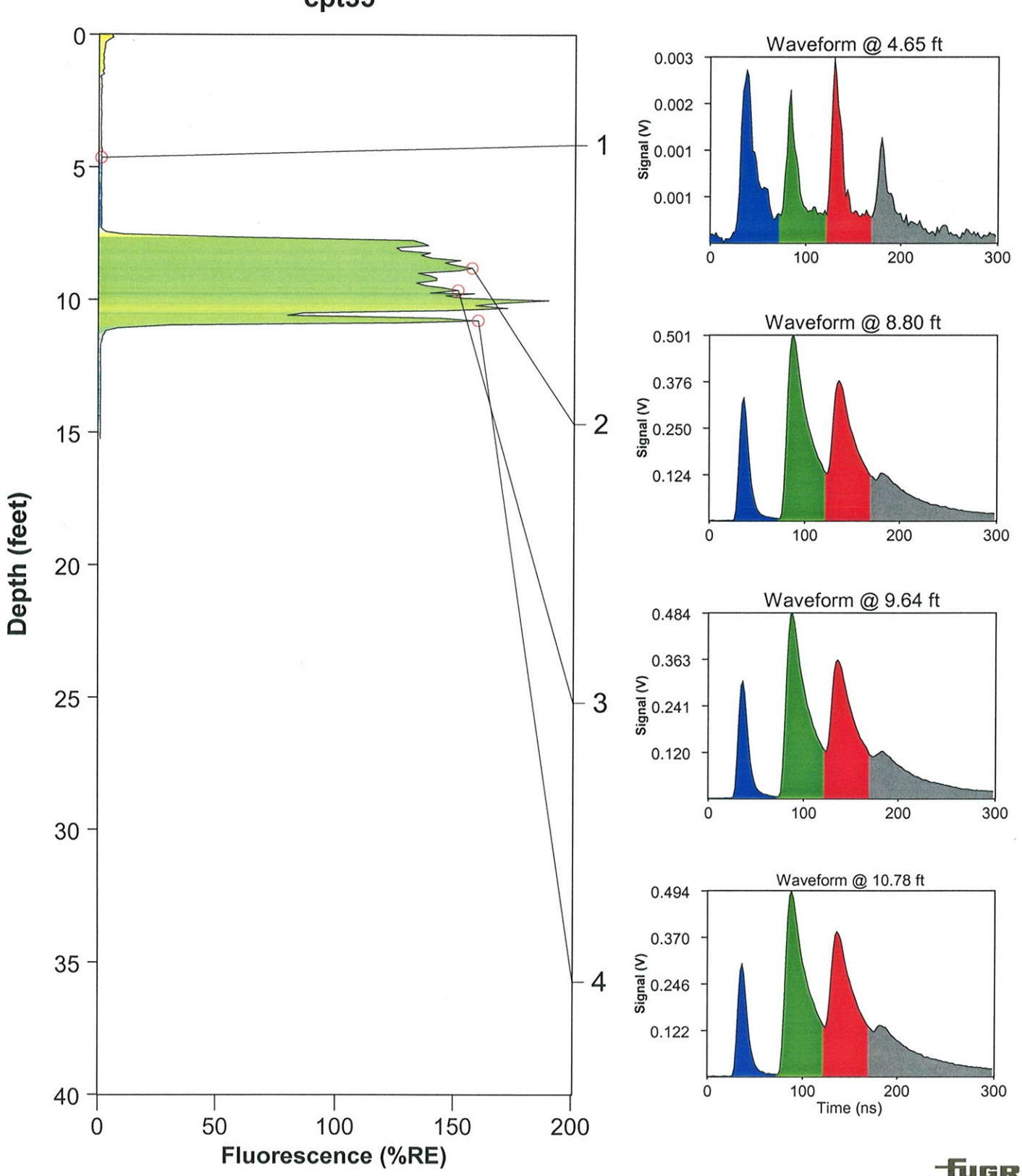
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 2:07:02 PM	Max fluorescence: 30.23% @ 8.82 ft
ROST Unit: 1	Final depth BGS: 15.26 ft



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ROST Fluorescence Response Data

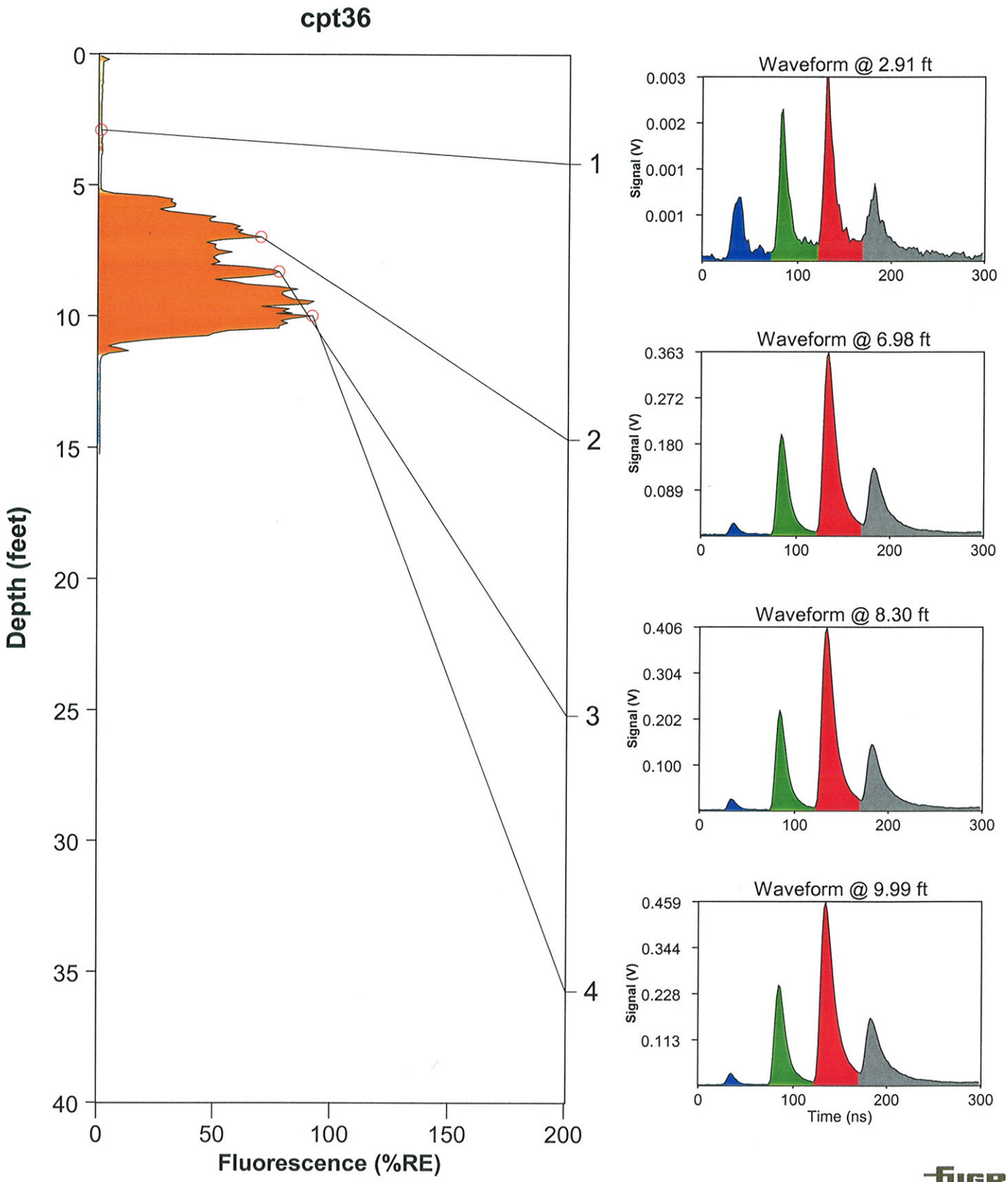
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 2:55:55 PM	Max fluorescence: 189.30% @ 10.02 ft
ROST Unit: 1	Final depth BGS: 15.26 ft



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ROST Fluorescence Response Data

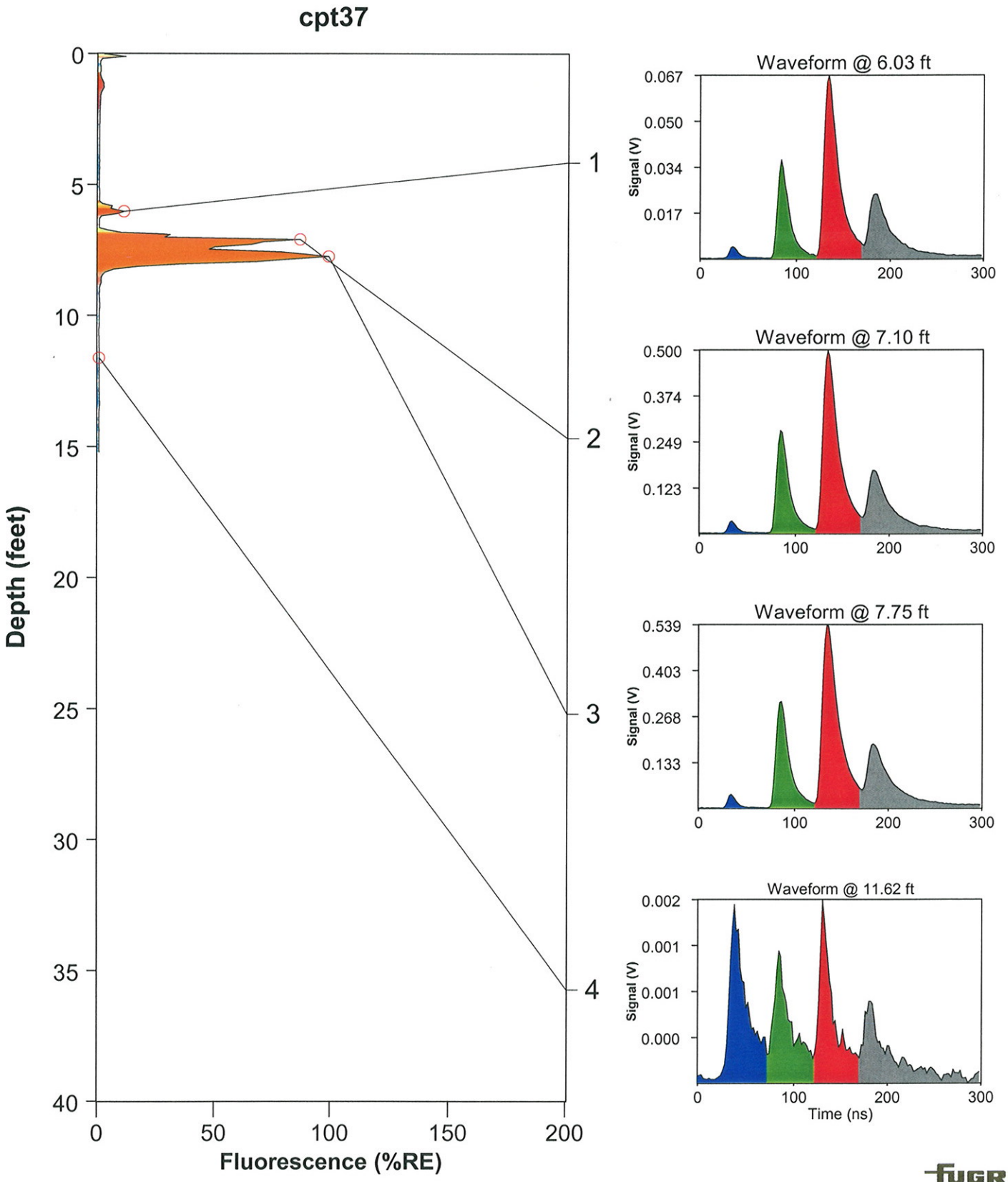
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 3:15:40 PM	Max fluorescence: 91.53% @ 9.43 ft
ROST Unit: 1	Final depth BGS: 15.27 ft



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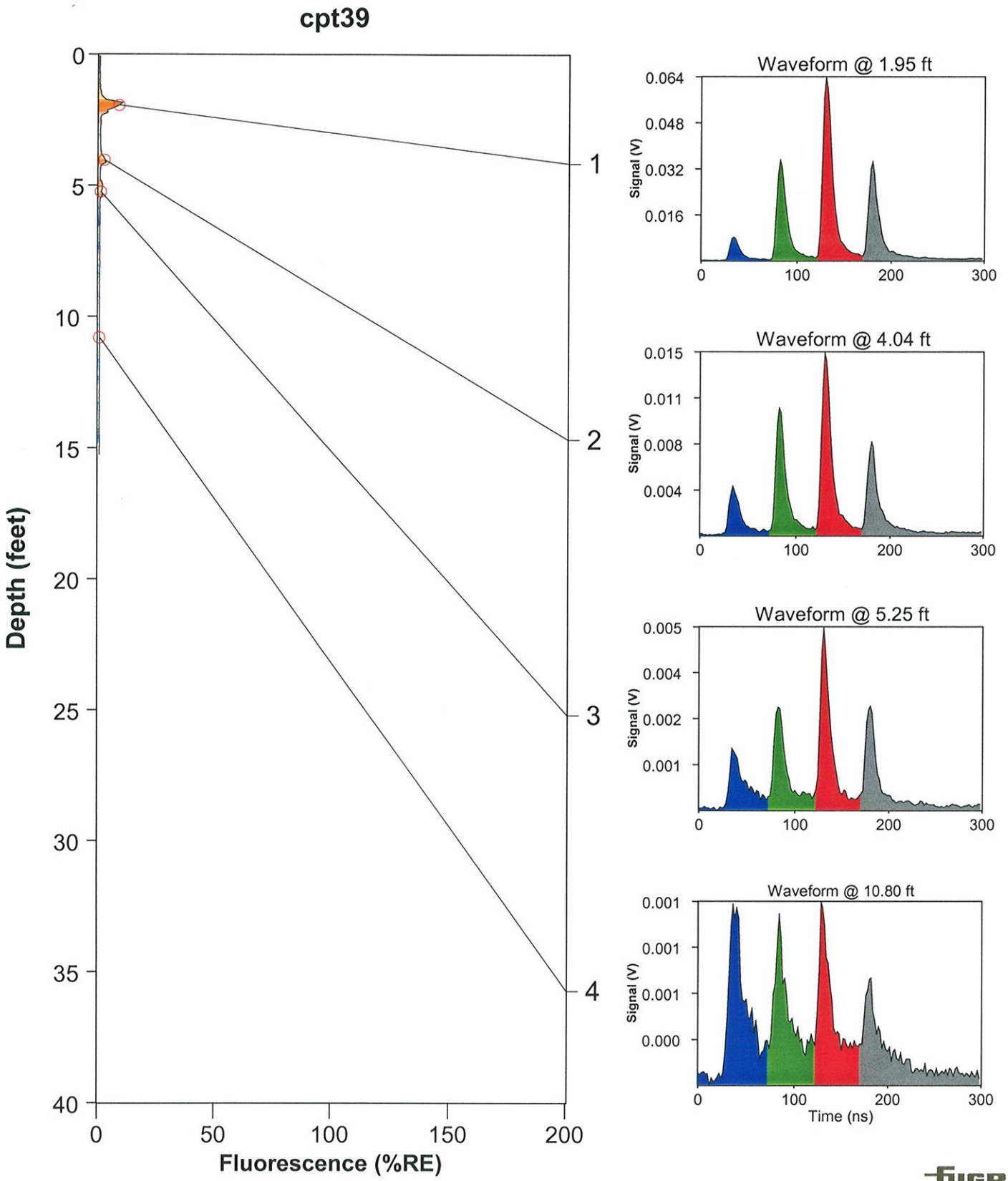
ROST Fluorescence Response Data

Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 3:32:07 PM	Max fluorescence: 98.33% @ 7.75 ft
ROST Unit: 1	Final depth BGS: 15.22 ft



ROST Fluorescence Response Data

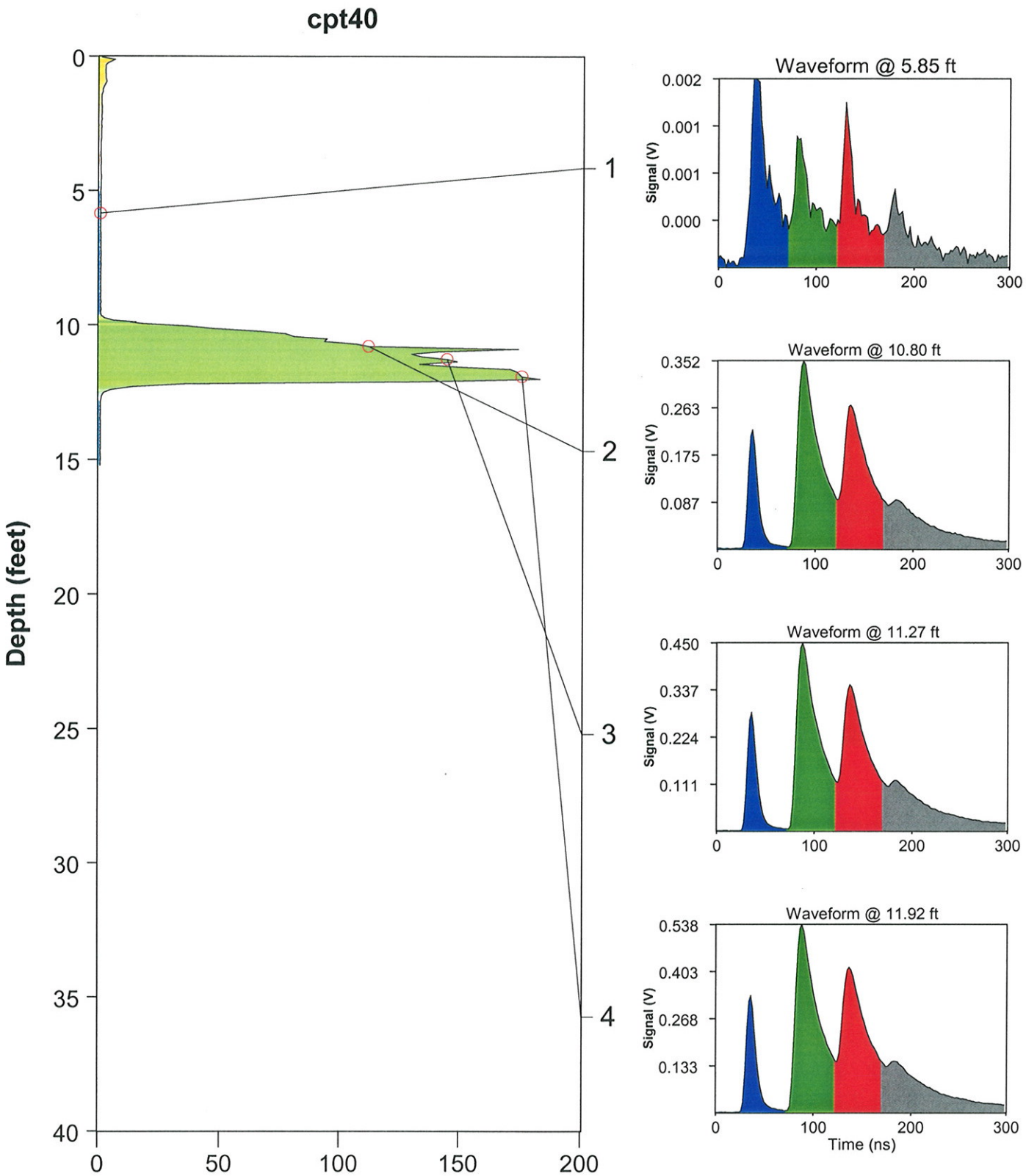
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/23/2004 @ 9:39:08 AM	Max fluorescence: 9.97% @ 1.85 ft
ROST Unit: 1	Final depth BGS: 15.26 ft



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ROST Fluorescence Response Data

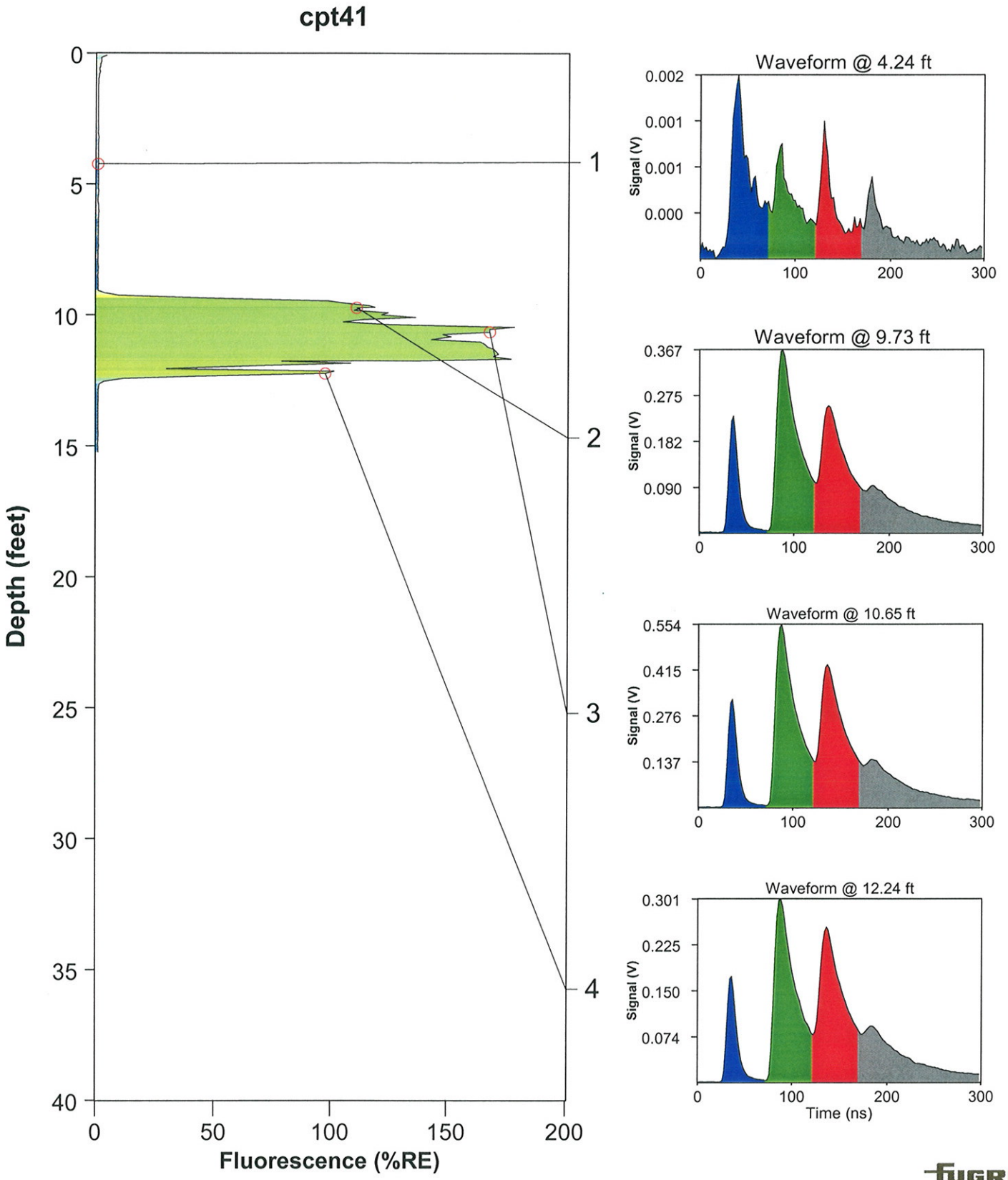
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 4:22:33 PM	Max fluorescence: 182.32% @ 12.01 ft
ROST Unit: 1	Final depth BGS: 15.23 ft



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ROST Fluorescence Response Data

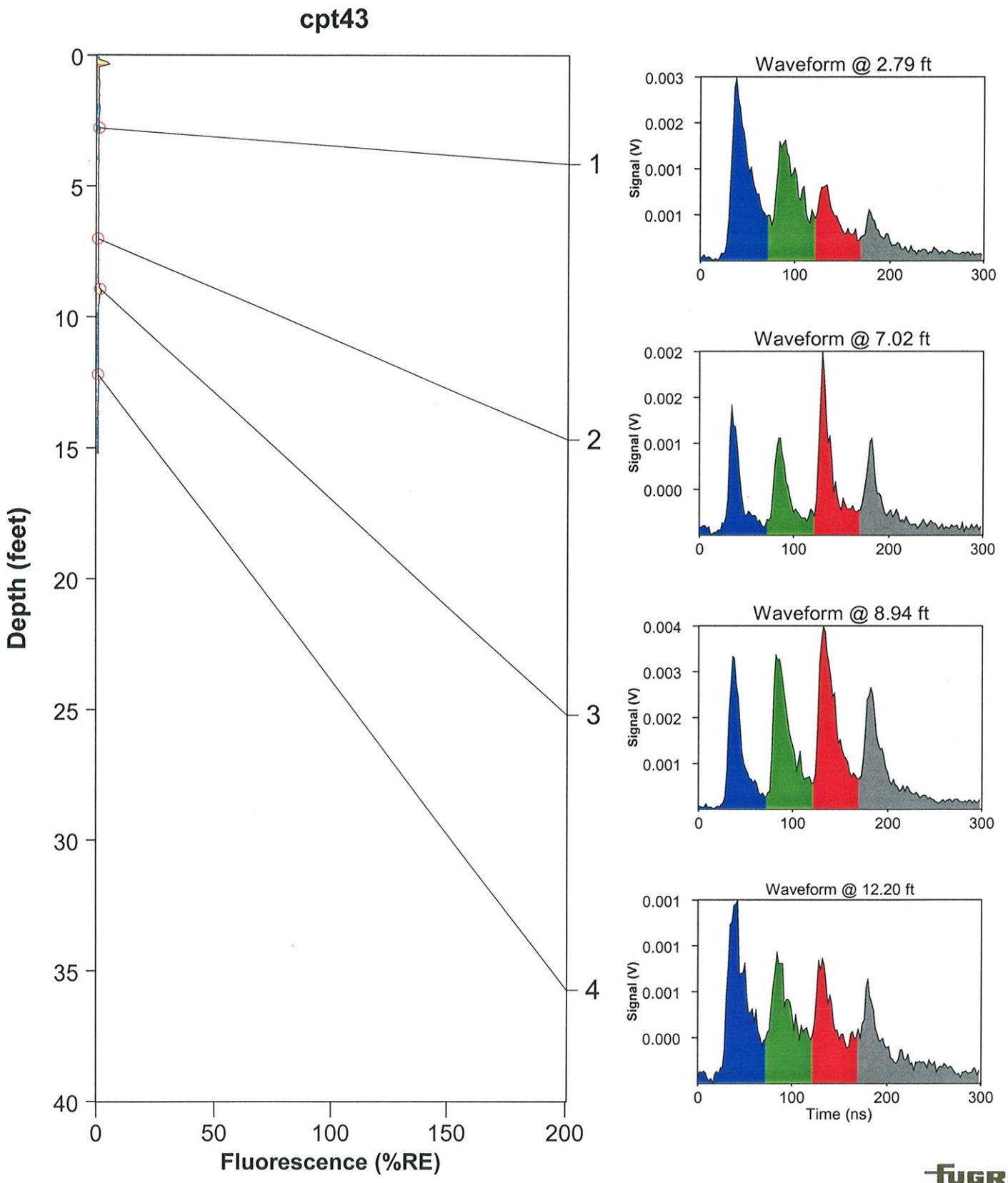
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/22/2004 @ 4:41:05 PM	Max fluorescence: 177.48% @ 10.46 ft
ROST Unit: 1	Final depth BGS: 15.24 ft



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ROST Fluorescence Response Data

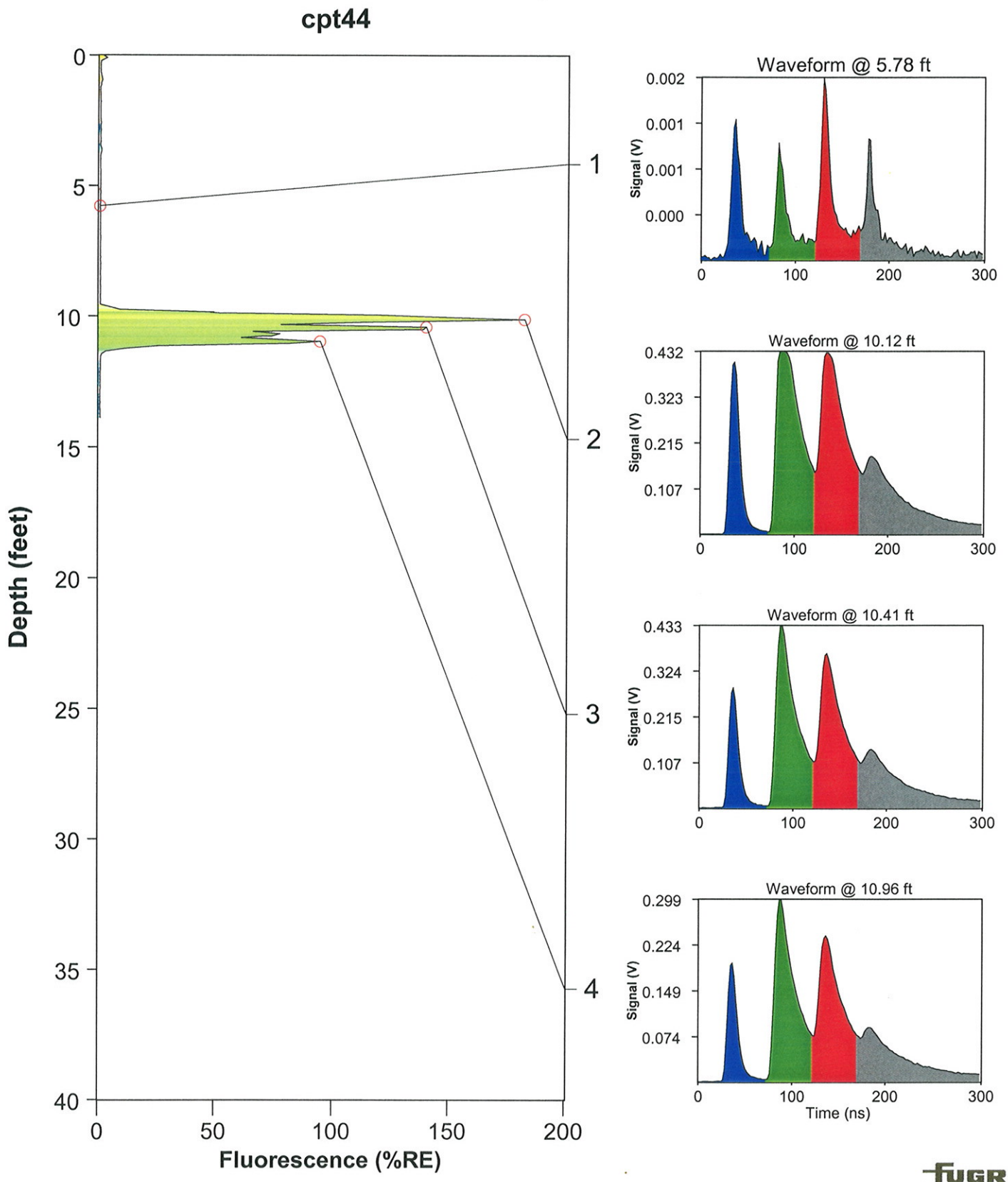
Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/23/2004 @ 8:09:35 AM	Max fluorescence: 5.02% @ 0.35 ft
ROST Unit: 1	Final depth BGS: 15.23 ft



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ROST Fluorescence Response Data

Site: port of astoria, oregon	Operator: ddeleon
Client: envirologic	Fugro Job #: 03-1090
Date/Time: 9/23/2004 @ 9:00:42 AM	Max fluorescence: 181.87% @ 10.12 ft
ROST Unit: 1	Final depth BGS: 13.89 ft



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APPENDIX D

Analytical data tables for soil (Table D-1 to D-9), ground water (D-10 to D-18), storm water (D-19 to D-24), sediment (D-25 to D-31), surface water (D-32 to D-33), and soil gas/vapor (D-34 to D-38) are presented in Appendix D. Included electronically (on a CD) are the laboratory reports.

TABLE D-1

PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-	26.5	1.26 J		34 J
EX-2(S)	Ex-2/S-1	3/30/2004	-	16.1 J	3.18 J		110
EX-2(S)	Ex-2/S-2	4/1/2004	-	25 U	2.09 J		35.6 J
EX-3(S)	Ex-3/S-1	3/31/2004	-	770	1.08 J		760
EX-4(S)	Ex-4/S-1	3/29/2004	-	Not Present	Not Present		Not Present
HOT-N-6	HOT-N-6	11/9/2004	-	41000			50 U
HOT-S-6	HOT-S-6	11/9/2004	-	27000			50 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	25 U	4.64		50 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	25 U	8.4		50 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	25 U	3.18 J		50 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	25 U	4 U		50 U
SB-005(A)	SB-005(A)-7	9/5/2003	7	25 U	4 U		50 U
SB-006(A)	SB-006(A)-7'	3/31/2004	7	14000	2190		2000 U
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	6840	2520		1000 U
SB-008(A)	SB-008(A)-2	8/26/2003	2	16.6 J	4.93		59
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	25 U	4 U		50 U
SB-009(A)	SB-009(A)-2	8/27/2003	2	25 U	7.84		50 U
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	12200	1670		2000 U
SB-010(A)	SB-010(A)-2	8/27/2003	2	25 U	6.39		50 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	25 U	2.76 J		50 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	25 U	4 U		50 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	25 U	4 U		50 U
SB-015(A)	SB-015(A)-7	9/10/2003	7	25 U	695		50 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	25 U	4 U		50 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	25 U	7.46		50 U
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	2370	5960		67.8
SB-020(A)	SB-020(A)-4'	3/31/2004	4	25 U	4 U B		50 U
SB-020(A)	SB-020(A)-9'	3/31/2004	9	25 U	4 U B		50 U
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	51400	1550		6370 U
SB-022(A)	SB-022 (A)-10.5	9/14/2005	10.5	2730	108		720
SB-023(A)	SB-023 (A)-11.5	9/15/2005	11.5	31.2 U	4.94 U		62.3 U
SB-024(A)	SB-024 (A)-11.5	9/14/2005	11.5	30.1 U	4.69 U		60.2 U
SB-025(A)	SB-025 (A)-11.5	9/15/2005	11.5	31 U	4.95 U		62 U
SB-026(A)	SB-026 (A)-13.5	9/14/2005	13.5	511	4.8 U		62.3 U
SB-027(A)	SB-027 (A)-11	9/14/2005	11	31900	2450		5690 U
SB-028(A)	SB-028 (A)-10	9/14/2005	10	25.3	4.41 U		64.5
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	31.5 U J	5.03 U J		63 U J

TABLE D-1

PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-030(A)	SB-030 (A)-12.5	9/14/2005	12.5	32.5 U	5.11 U		65.1 U
SB-100(C)	SB100(C)20	8/22/2002	20	25 U	6.31		50 U
SB-100(C)	SB100(C)3	8/22/2002	3	25 U	4 U		50 U
SB-101(C)	SB101(C)18	8/22/2002	18	25 U	4 U		50 U
SB-101(C)	SB101(C)3	8/22/2002	3	25 U	4 U		50 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	25 U	8.31		50 U
SB-102(C)	SB102(C)18	8/22/2002	18	73.9	4 U		473
SB-103(C)	SB103(C)18	8/22/2002	18	44.5	4 U		126
SB-103(C)	SB103(C)3	8/22/2002	3	76.4	4 U		283
SB-104(C)	SB104(C)20	8/22/2002	20	25 U	5.14		74.1
SB-104(C)	SB104(C)4	8/22/2002	4	25 U	4 U		50 U
SB-200(C)	SB200(C)3	8/22/2002	3	25 U	4 U		50 U
SB-200(C)	SB200(C)6	8/22/2002	6	25 U	4 U		50 U
SB-201(C)	SB201(C)3	8/22/2002	3	25 U	4 U		50 U
SB-201(C)	SB201(C)6	8/22/2002	6	37.5	4 U		159
SB-202(C)	SB202(C)2	8/22/2002	2	6030	5.03		7700
SB-202(C)	SB202(C)3	8/22/2002	3	38.8	4 U		57.8
SB-202(C)	SB202(C)7	8/22/2002	7	28.7	4 U		50 U
SB-203(C)	SB203(C)3	8/22/2002	3	25 U	4 U		50 U
SB-203(C)	SB203(C)7	8/22/2002	7	25 U	4 U		50 U
SB-204(C)	SB204(C)3	8/22/2002	3	25 U	4 U		50 U
SB-204(C)	SB204(C)8	8/22/2002	8	25 U	5.51		50 U
SB-253(C)	SB-253(C)-2	9/4/2003	2	25 U	4 U		50 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	25 U	4 U		50 U
SB-254(C)	SB-254(C)-2	9/4/2003	2	250 U	4 U		1010
SB-254(C)	SB-254(C)-7	9/4/2003	7	25 U	4 U		50 U
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	77.5	4 U		325
SB-255(C)	SB-255(C)-7	9/4/2003	7	196	10		301
SB-256(C)	SB256 (c) 6	3/31/2004	6	25 U	6.23 J		50 U
SB-300(D)	SB-300-D-2.0	8/20/2002	2	Present	Not Present		Present
SB-300(D)	SB-D-DUP-2	8/20/2002	2	Present	Not Present		Present
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	Present	Present		Not Present
SB-304(D)	SB-304-D-2.0	8/19/2002	2	Present	Not Present		Present
SB-304(D)	SB-304-D-5.0	8/19/2002	5	Present	Present		Present
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	Present	Present		Present
SB-305(D)	SB-305-D-2.0	8/19/2002	2	Present	Present		Present
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	Present	Not Present		Not Present

TABLE D-1

PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-306(D)	SB-306-D-2.0	8/19/2002	2	Present	Present		Present
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	Present	Present		Present
SB-307(D)	SB-307-D-2.0	8/19/2002	2	Not Present	Not Present		Not Present
SB-308(D)	SB-308-D-5.0	8/19/2002	5	Present	Present		Present
SB-309(D)	SB-309-D-5.0	8/19/2002	5	Not Present	Not Present		Present
SB-310(D)	SB-310-D-2.0	8/19/2002	2	Present	Present		Present
SB-310(D)	SB-310-D-5.0	8/19/2002	5	Present	Present		Present
SB-311(D)	SB-311-D-5.0	8/19/2002	5	Not Present	Not Present		Not Present
SB-312(D)	SB-312-D-5.0	8/19/2002	5	Not Present	Not Present		Not Present
SB-313(D)	SB-313-D-18.0	8/20/2002	18	Not Present	Present		Not Present
SB-313(D)	SB-313-D-5.0	8/20/2002	5	Not Present	Present		Not Present
SB-314(D)	SB-314-D-10.0	8/20/2002	10	Present	Not Present		Not Present
SB-314(D)	SB-314-D-15.0	8/20/2002	15	Not Present	Not Present		Not Present
SB-315(D)	SB-315-D-15.0	8/20/2002	15	Not Present	Not Present		Not Present
SB-315(D)	SB-315-D-2.0	8/20/2002	2	Not Present	Not Present		Not Present
SB-316(D)	SB-316-D-10.0	8/20/2002	10	Not Present	Present		Not Present
SB-316(D)	SB-316-D-5.0	8/20/2002	5	Not Present	Present		Not Present
SB-316(D)	SB-D-DUP-3	8/20/2002	5	Not Present	Present		Not Present
SB-317(D)	SB-317-D-10.0	8/20/2002	10	Not Present	Not Present		Not Present
SB-318(D)	SB-318-D-15.0	8/20/2002	15	Not Present	Present		Not Present
SB-320(D)	SB-320(D)-2	9/10/2003	2	25 U	4 U		50 U
SB-320(D)	SB-320(D)-5	9/10/2003	5	25 U	4 U		50 U
SB-321(D)	SB-321(D)-2	9/9/2003	2	1780	392		3560
SB-321(D)	SB-321(D)-5	9/9/2003	5	6370	1530		19200
SB-322(D)	SB-322(D)-2	9/10/2003	2	25 U	4.31		27.8 J
SB-322(D)	SB-322(D)-5	9/10/2003	5	25 U	4.61		50 U
SB-323(D)	SB-323(D)-7	9/10/2003	7	25 U	2.61 J		50 U
SB-324(D)	SB-324(D)-10	9/10/2003	10	4630	586		50 U
SB-324(D)	SB-324(D)-15	9/10/2003	15	433	162		250 U
SB-324(D)	SB-324(D)-2	9/10/2003	2	25 U	2.75 J		50 U
SB-324(D)	SB-324(D)-5	9/10/2003	5	25 U	2.63 J		50 U
SB-324(D)	SB-324(D)-DUP	9/10/2003	15	592	366		1500
SB-325(D)	SB-325(D)-10	9/10/2003	10	25 U	4 U		50 U
SB-325(D)	SB-325(D)-15	9/10/2003	15	25 U	6.05		50 U
SB-325(D)	SB-325(D)-2	9/10/2003	2	25 U	5.53		50 U
SB-325(D)	SB-325(D)-5	9/10/2003	5	25 U	4 U		50 U
SB-325(D)	SB-325(D)-DUP	9/10/2003	2	25 U	3.17 J		50 U
SB-326(D)	SB-326(D)-10	9/9/2003	10	202	1920		50 U
SB-326(D)	SB-326(D)-2	9/9/2003	2	25 U	31.6		50 U

TABLE D-1

PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-326(D)	SB-326(D)-5	9/9/2003	5	25 U	870		47.2 J
SB-327(D)	SB-327(D)-10	9/10/2003	10	9640	758		1000 U
SB-327(D)	SB-327(D)-15	9/10/2003	15	22 J	390		50 U
SB-327(D)	SB-327(D)-2	9/10/2003	2	25 U	2.78 J		50 U
SB-327(D)	SB-327(D)-5	9/10/2003	5	25 U	6.22		50 U
SB-328(D)	SB-328(D)-10	9/10/2003	10	3580	1360		50 U
SB-328(D)	SB-328(D)-15	9/10/2003	15	22.8 J	11.4		50 U
SB-328(D)	SB-328(D)-2	9/10/2003	2	25 U	4 U		48.1 J
SB-328(D)	SB-328(D)-5	9/10/2003	5	21.3 J	67.9		104
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5	25 U	2.5 U		50 U
SB-400(F)	SB-400(F)-5	8/22/2002	5	25 U	2.5 U J		50 U
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5	25 U	2.5 U J		50 U
SB-401(F)	SB-401(F)-20	8/23/2002	20	25 U	2.5 U		71.7
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	25 U	2.5 U		50 U
SB-402(F)	SB-402(F)-20	8/23/2002	20	25 U	2.5 U J		71.7
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5	25 U	2.5 U		50 U
SB-404(F)	SB-404(F)-20	8/22/2002	20	25 U	7.81		50 U
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5	25 U	2.5 U		50 U
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	25 U	93.9 J		50 U
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5	25 U	2.5 U		77.1
SB-406(F)	SB-406(F)-8	8/22/2002	8	25 U	5.03 J		50 U
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5	25 U	2.5 U		56.3
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	413 J	1570 J		50 U J
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7	Present	1470		Not Present
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7		Present		
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	1470	6.44		229
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5	150	3.66 J		53.4
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5		34.8		
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5	25 U	2.5 U		50 U
SB-409(F)	SB-409(F)-5	8/22/2002	5	25 U	2.5 U		50 U
SB-410(F)	SB-410(F)-2'	3/31/2004	2	48.2	4.45 J,B		179
SB-410(F)	SB-410(F)-4'	3/31/2004	4	25 U	4 U B		50 U
SB-410(F)	SB-410(F)-9'	3/31/2004	9	25 U	4 U B		50 U
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10	25 U	2.5 U		50 U
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6	282	20.6		50 U
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10	1680	1300		50 U
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10	10800	217		1000 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10	16800	490		500 U
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11	25 U	3.17 J		50 U
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10	4750	186		500 U
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10	2520	890		50 U
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10	16100	532		500 U
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10	3270	1380		50 U
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10	41.4	6.51 J		75.6
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10	35500 J	2040		500 U J
SB-600(N)	SB-600(N)-11	9/13/2002	11	Not Present	Not Present		Not Present
SB-600(N)	SB-600(N)-7	9/13/2002	7	Not Present	2510		Not Present
SB-600(N)	SB-600(N)-7	9/13/2002	7		Present		
SB-601(N)	SB-601(N)-7	9/13/2002	7	1380	3750		50 U
SB-601(N)	SB-601(N)-7	9/13/2002	7	Present	Present		Not Present
SB-602(N)	SB-602(N)-3	9/13/2002	3		2.56		
SB-602(N)	SB-602(N)-7	9/13/2002	7	528	337		50 U
SB-602(N)	SB-602(N)-7	9/13/2002	7	Present	Present		Not Present
SB-603(N)	SB-603(N)-7	9/13/2002	7	1520	3750		1000 U
SB-603(N)	SB-603(N)-7	9/13/2002	7	Present	Present		Not Present
SB-604(N)	SB-604(N)-3	9/13/2002	3	Not Present	2.5 U		Not Present
SB-604(N)	SB-604(N)-3	9/13/2002	3		Not Present		
SB-604(N)	SB-604(N)-7	9/13/2002	7	2780	601		1000 U
SB-604(N)	SB-604(N)-7	9/13/2002	7	Present	Present		Not Present
SB-605(N)	SB-605(N)-3	9/13/2002	3	Not Present	Not Present		Not Present
SB-605(N)	SB-605(N)-7	9/13/2002	7	2260	3000		1000 U
SB-605(N)	SB-605(N)-7	9/13/2002	7	Present	Present		Not Present
SB-606(N)	SB-606(N)-3	9/13/2002	3	Not Present	2.5 U		Not Present
SB-606(N)	SB-606(N)-3	9/13/2002	3		Not Present		
SB-606(N)	SB-606(N)-7	9/13/2002	7	Not Present	2.5 U		Not Present
SB-606(N)	SB-606(N)-7	9/13/2002	7		Not Present		
SB-607(N)	SB-607(N)-11	9/13/2002	11	25 U	2.5 U		50 U
SB-608(N)	SB-608(N)-3	9/13/2002	3	Not Present	Not Present		Not Present
SB-608(N)	SB-608(N)-6	9/13/2002	6	Not Present	82.8		Not Present
SB-608(N)	SB-608(N)-6	9/13/2002	6		Present		
SB-609(N)	SB-609(N)-7	9/13/2002	7	Not Present	Not Present		Not Present
SB-612(N)	SB-612 (N)-7	9/12/2002	7	4580	4100		1000 U
SB-612(N)	SB-612 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5	2270	2110		1000 U
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5	Present	Present		Not Present

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Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-614(N)	SB-614 (N)-7	9/12/2002	7	809	1370		500 U
SB-614(N)	SB-614 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-615(N)	SB-615 (N)-7	9/12/2002	7	2070	1340		1000 U
SB-615(N)	SB-615 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-616(N)	SB-616 (N)-7	9/12/2002	7	7880	4000		1000 U
SB-616(N)	SB-616 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-617(N)	SB-617 (N)-3	9/12/2002	3	54.1	Not Present		50 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3	Present			Not Present
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5	Not Present	4.32		Not Present
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5		Not Present		
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5	239	7.89		133
SB-618(N)	SB-618 (N)-7	9/12/2002	7	7490	1780		1000 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7	Present	Present		Present
SB-619(N)	SB-619 (N)-11	9/12/2002	11	Not Present	18.1		Not Present
SB-619(N)	SB-619 (N)-11	9/12/2002	11		Not Present		
SB-619(N)	SB-619 (N)-7	9/12/2002	7	Not Present	2.5 U		Not Present
SB-619(N)	SB-619 (N)-7	9/12/2002	7		Not Present		
SB-620(N)	SB-620 (N)-3	9/12/2002	3		2.5 U		
SB-620(N)	SB-620 (N)-7	9/12/2002	7	3480	2130		250 U
SB-620(N)	SB-620 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-621(N)	SB-621 (N)-7	9/12/2002	7	Not Present	2.5 U		Not Present
SB-621(N)	SB-621 (N)-7	9/12/2002	7		Not Present		
SB-622(N)	SB-622 (N)-2	9/12/2002	2	Not Present	Not Present		Not Present
SB-622(N)	SB-622 (N)-2	9/12/2002	2		2.5 U		
SB-622(N)	SB-622 (N)-7	9/12/2002	7	Not Present	2.5 U		Not Present
SB-622(N)	SB-622 (N)-7	9/12/2002	7		Not Present		
SB-623(N)	SB-623 (N)-7	9/12/2002	7	Present	1460		Not Present
SB-623(N)	SB-623 (N)-7	9/12/2002	7	2420	Present		250 U
SB-624(N)	SB-624 (N)-2	9/12/2002	2	25 U	2.5 U		50 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7	5930	753		250 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-625(N)	SB-625 (N)-10	9/12/2002	10	1630	55.5		50 U
SB-625(N)	SB-625 (N)-10	9/12/2002	10	Present	Not Present		Not Present
SB-625(N)	SB-625 (N)-2	9/12/2002	2	25 U	2.5 U		50 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7	Present	6.4		Not Present
SB-625(N)	SB-625 (N)-7	9/12/2002	7	2170	Not Present		500 U
SB-626(N)	SB-626 (N)-7	9/12/2002	7	9600	4560		255
SB-626(N)	SB-626 (N)-7	9/12/2002	7	Present	Present		Not Present
SB-627(N)	SB-627(N)-2	8/28/2003	2	132	31.4		239

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Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	10800	1650		1000 U
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	282	1690		36.5 J
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	703	2920		50 U
SB-700(P)	SB-700(P)-3	8/21/2002	3	25 U	2.5 U		117
SB-701(P)	SB-701(P)-11	8/20/2002	11	25 U	2.5 U		50 U
SB-701(P)	SB-701(P)-12	8/20/2002	12	25 U	2.5 U		50 U
SB-701(P)	SB-701(P)-2	8/20/2002	2	25 U	2.5 U		50 U
SB-702(P)	SB-702(P)-11	8/21/2002	11	25 U	2.5 U		50 U
SB-702(P)	SB-702(P)-2	8/21/2002	2	25 U	2.5 U		50 U
SB-703(P)	SB-703(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-703(P)	SB-703(P)-2	8/21/2002	2	102	15.8		453
SB-704(P)	SB-704(P)-11	8/21/2002	11	25 U	2.5 U J-		50 U
SB-704(P)	SB-704(P)-2	8/21/2002	2	25 U	2.5 U		128
SB-705(P)	SB-705(P)-12	8/20/2002	12	25 U	2.5 U J-		50 U
SB-705(P)	SB-705(P)-3	8/20/2002	3	25 U	2.5 U		50 U
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	25 U	2.5 U		50 U
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	25 U	2.5 U		60.1
SB-706(P)	SB-706(P)-12	8/21/2002	12	25 U	2.5 U		50 U
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5	25 U	2.5 U		50 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	25 U	2.5 U J-		50 U
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	25 U	2.5 U		56.9
SB-707(P)	SB-707(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-707(P)	SB-707(P)-2	8/21/2002	2	25 U	2.5 U		50 U
SB-708(P)	SB-708(P)-10	8/20/2002	10	25 U	2.5 U		50 U
SB-708(P)	SB-708(P)-3	8/20/2002	3	25 U	2.5 U		50 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-709(P)	SB-709(P)-3	8/21/2002	3	35.3	2.5 U		74.4
SB-710(P)	SB-710(P)-3	8/21/2002	3	500 U	2.5 U		2450
SB-711(P)	SB-711(P)-10	8/21/2002	10	25 U	2.5 U		127
SB-711(P)	SB-711(P)-3	8/21/2002	3	25 U	2.5 U		150
SB-712(P)	SB-712(P)-10	8/21/2002	10	250 U	2.5 U		1630
SB-712(P)	SB-712(P)-2	8/21/2002	2	250 U	2.5 U		2110
SB-713(P)	SB-713(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-713(P)	SB-713(P)-2	8/21/2002	2	25 U	2.5 U		50 U
SB-714(P)	SB-714(P)-10	8/21/2002	10	5780	3460		500 U
SB-714(P)	SB-714(P)-2	8/21/2002	2	66.4	2.5 U		162
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5	6240	1150		500 U
SB-715(P)	SB-715(P)-11	8/21/2002	11	77.6	2.5 U		180

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Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-715(P)	SB-715(P)-3	8/21/2002	3	25 U	2.5 U J-		50 U
SB-715(P)	SB-715(P)-7	8/21/2002	7	71	8.52		157
SB-716(P)	SB-716(P)-10	8/20/2002	10	25 U	2.5 U		50 U
SB-716(P)	SB-716(P)-3	8/20/2002	3	25 U	2.5 U		50 U
SB-717(P)	SB-717(P)-10	8/20/2002	10	25 U	2.5 U		50 U
SB-717(P)	SB-717(P)-3	8/20/2002	3	25 U	2.5 U		50 U
SB-718(P)	SB-718(P)-10	8/21/2002	10	25 U	2.5 U		50 U
SB-718(P)	SB-718(P)-2	8/21/2002	2	25 U	2.5 U		50 U
SB-719(P)	SB-719(P)-12	8/23/2002	12	25 U	14.5 J-		50 U
SB-719(P)	SB-719(P)-5	8/23/2002	5	25 U	5.07 JB		110
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5	4350	2590 B		50 U
SB-720(P)	SB-720(P)-2	8/23/2002	2	25 U	7.63		142
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5	6110	3420		500 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7	25 U	4 U B		50 U
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5	25 U	2.5 J/UJ		50 U
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2	25 U	2.5 U		50 U
SB-801(Q)	SB801(Q)-0	8/26/2002	-	11.2	4 U		23.4
SB-801(Q)	SB801(Q)-2	8/26/2002	2	7.8 U	4 U		15.6 U
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5	7.8 U	4 U		15.6 U
SB-802(Q)	SB802(Q)-0	8/26/2002	-	24.6	4 U		57.9
SB-802(Q)	SB802(Q)-2	8/26/2002	2	7.8 U	4 U		15.6 U
SB-802(Q)	SB802(Q)-9	8/26/2002	9	24.5	4 U		57.7
SB-803(Q)	SB803(Q)-0	8/26/2002	-	20.2	4 U		25.3
SB-803(Q)	SB803(Q)-2	8/26/2002	2	7.8 U	4 U		31.1
SB-803(Q)	SB803(Q)-9	8/26/2002	9	57.7	4 U		244
SB-804(Q)	SB-804(Q)-0	8/26/2002	-	7.8 U	4 U		15.6 U
SB-804(Q)	SB-804(Q)-2	8/26/2002	2	305 U	4 U		953
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5	22.5	4 U		169
SB-805(Q)	SB-805(Q)-0	8/26/2002	-	11.7	4 U		22.2
SB-805(Q)	SB-805(Q)-10	8/26/2002	10	7.8 U	4 U		15.6 U
SB-805(Q)	SB-805(Q)-2	8/26/2002	2	16	13.1		31.6
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11	25 U	3.93	50 U	
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8	25 U	4.68	50 U	
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-	82.9	2.96	349	
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7	485	2300 J	50 U	

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Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9	25 U	28.5	50 U	
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-	25 U	3.08		50 U
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2	25 U	2.5 U		50 U
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5	25 U	2.5 J/UJ		50 U
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-	25 U	2.5 U		50 U
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2	25 U	2.5 U		50 U
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8	25 U	2.5 U		50 U
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5	25 U	2.5 U		50 U
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9	25 U	2.5 J/UJ		60.8
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9	25 U	2.5 J/UJ		63
SB-812(Q)	SB812(Q)-0	8/27/2002	-	7.8 U	4 U		15.6 U
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5	13.2	4 U		15.6 U
SB-812(Q)	SB812(Q)-9	8/27/2002	9	7.8 U	4 U		15.6 U
SB-813(Q)	SB813(Q)-0	8/27/2002	-	25 J/UJ	2.5 U R		50 J/UJ
SB-813(Q)	SB813(Q)-5	8/27/2002	5	7.8 U	4 U		15.6 U
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5	7.8 U	4 U		15.6 U
SB-814(Q)	SB814(Q)-0	8/27/2002	-	7.8 U	4 U		15.6 U
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5	16.1	4 U		15.6 U
SB-814(Q)	SB814(Q)-9	8/27/2002	9	14.1	4 U		15.6 U
SB-815(Q)	SB815(Q)-0	8/27/2002	-	13.5	4 U		15.6 U
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5	163	4 U		571
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5	16.7	4 U		24.9
SB-816(Q)	SB816(Q)-0	8/27/2002	-	7.8 U	4 U		15.6 U
SB-816(Q)	SB816(Q)-2	8/27/2002	2	7.8 U	4 U		15.6 U
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5	7.8 U	4 U		15.6 U
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2	116	2.88	162	
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9	38.6	2.5 U	90.6	
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4	29.6	2.6	50 U	
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9	25 U	2.5 U	50 U	
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11	25 U	3.36	50 U	
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5	69.8	2.5 J/UJ	50 U	
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-	47.5	2.6	131	
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2	30.4	3.41	67.2	
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9	25 U	3.44	50 U	
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9	186	537 J	181	

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			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-	25 U	2.5 U	131	
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5	1070	1950 J	87.2	
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5	324	459 J	50 U	
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9	25 U	12.3	50 U	
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-	25 U	2.5 U	50 U	
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10	25 J/UJ	10.5	50 U	
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2	25 U	2.5 U	50 U	
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2	25 U	2.5 U	50 U	
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8	429	7620 J	50 U	
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-	48.6	2.5 U		146
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2	25 U	2.5 U		50 U
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9	50 U	2.5 U		288
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3	25 U	2.5 U		50 U
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9	25 U	2.93		50 U
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2	25 U	2.5 U		50 U
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9	25 U	2.5 J/UJ		50 U
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-	25 U	2.5 U		50 U
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3	25 U	2.5 U		50 U
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9	25 U	2.5 U		50 U
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-	25 U	2.5 U	50 U	
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2	25 U	3.19	50 U	
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5	25 U	3.16	50 U	
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-	25 U	2.5 J/UJ		50 U
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2	25 U	6.87		50 U
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5	25 U	2.5 J/UJ		50 U
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-	39.8	3.44	201	
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2	25 U	2.5 U	50 U	
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9	250 U	2.5 U	926	
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5	31.9	2.5 U	130	
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4	25 U	2.5 U	50 U	
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9	27.2	2.5 U	50 U	
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-	25 U	2.5 U	50 U	
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	

TABLE D-1

PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			feet	mg/kg	mg/kg	mg/kg	mg/kg
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9	25 U	7.11	50 U	
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-	250 U	2.5 U	563	
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5	25 U	6.48	50 U	
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2	25 U	2.5 U	50 U	
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	25 U	4 U		50 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	25 U	4 U		50 U
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	25 U	4 U		107
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	25 U	4 U		50 U
SB-900(S)	SB-900(S)-12	8/26/2002	12	261	2160 J		50 U
SB-900(S)	SB-900(S)-4	8/26/2002	4	96			184
SB-901(S)	SB-901 (S)-10	8/26/2002	10	25 U	2.5 U		50 U
SB-901(S)	SB-901 (S)-8	8/26/2002	8	25 U	2.5 U		50 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12	1770			76.7
SB-902(S)	SB-902 (S)-8	8/26/2002	8	81.3	29.6		50 U
SB-903(S)	SB-903 (S)-10	8/26/2002	10	16400	396		500 U
SB-903(S)	SB-903 (S)-8	8/26/2002	8	437	2.5 U		162
SB-904(S)	SB-904 (S)-12	8/26/2002	12	23100	647		500 U
SB-904(S)	SB-904 (S)-4	8/26/2002	4	1200	2.5 U		3070
SB-905(S)	SB-905 (S)-12	8/26/2002	12	25 U	2.5 U		50 U
SB-905(S)	SB-905 (S)-4	8/26/2002	4	3630	3.23		7500
SB-906(S)	SB-906 (S)-12	8/27/2002	12	11200			500 U
SB-906(S)	SB-906 (S)-4	8/27/2002	4	1570			1100
SB-908(S)	SB-908 (S)-10	8/27/2002	10	25 U	2.5 U		50 U
SB-908(S)	SB-908 (S)-4	8/27/2002	4	7550			12300
SB-908(S)	SB-908 (S)-8	8/27/2002	8	25 U			50 U
SB-909(S)	SB-909 (S)-10	8/27/2002	10	250 U	2.5 U		894
SB-909(S)	SB-909 (S)-4	8/27/2002	4	1300	3.19		5500
SB-910(S)	SB-910 (S)-10	8/27/2002	10	25 U	2.5 U		50 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4	32.5			241
SB-911(S)	SB-911 (S)-10	8/27/2002	10	25 U	2.62		50 U
SB-911(S)	SB-911 (S)-8	8/27/2002	8	25 U	2.5 U		50 U
SB-912(S)	SB-912(S)-2	9/3/2003	2	27.8	4 U		130
SB-912(S)	SB-912(S)-7	9/3/2003	7	25 U	4 U		50 U
SB-913(S)	SB-913(S)-2	9/3/2003	2	2440	2.58 J		6390
SB-913(S)	SB-913(S)-7	9/3/2003	7	2050	4.64		1250
SB-914(S)	SB-914(S)-2	9/3/2003	2	25 U	4 U		50 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	25 U	4 U		50 U
SB-915(S)	SB-915(s)-5.0	3/31/2004	5	25 U	Not Present		294

TABLE D-1

PETROLEUM HYDROCARBONS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics		Gasoline Range Organics		Lubeoil	Residual Range Organics
			feet	mg/kg		mg/kg		mg/kg	mg/kg
SB-915(S)	SB-915(s)-5.0	3/31/2004	5	Present	J				Present
SB-916(S)	SB-916(s)-5.0	3/31/2004	5	Not Present		Not Present			Not Present
SB-917(S)	SB-917(s)-5.0	3/31/2004	5	Not Present		Not Present			Not Present
SB-918(S)	SB-918(s)-5.0	3/31/2004	5	Present	J	Present	J		Not Present
SB-919(S)	SB-919(s)-5.0	3/31/2004	5	Not Present		Not Present			Not Present
UST--E-9	UST-E-9	11/9/2004	-	50	U	20	U		100 U
UST-W-9	UST-W-9	11/9/2004	-	1		20	U		100 U
UST-W-9	UST-W-9	11/9/2004	-	50	U				50 U

TABLE D-2

RBDMVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-					0.05	0.05	
EX-2(S)	Ex-2/S-1	3/30/2004	-					0.0493	0.0778	
EX-3(S)	Ex-3/S-1	3/31/2004	-					0.05	0.05	
EX-4(S)	Ex-4/S-1	3/29/2004	-					0.05	0.05	
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-005(A)	SB-005(A)-7	9/5/2003	7	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-006(A)	SB-006(A)-7'	3/31/2004	7	186	0.5	0.5	31.1	4.39	73.8	7.68
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	247	2.5	2.5	58	1.19 J	68.8	7.3 J
SB-008(A)	SB-008(A)-2	8/26/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-009(A)	SB-009(A)-2	8/27/2003	2	0.0438 J	0.05	0.05	0.0109 J	0.05	0.05	0.2
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	2.47	0.5	0.5	2.62	0.309 J	4.72	1.6 J
SB-010(A)	SB-010(A)-2	8/27/2003	2	0.0105 J	0.05	0.05	0.05	0.05	0.05	0.2
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	0.0151 J	0.05	0.05	0.05	0.05	0.05	0.2
SB-015(A)	SB-015(A)-7	9/10/2003	7	44.1	0.25	0.25	11.6	0.116	11.7	1.41
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	0.0503 J	0.05	0.05	0.05	0.05	0.05	0.2
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	288	2.5	2.5	46.3	2.5	53.3	8.76 J
SB-020(A)	SB-020(A)-4'	3/31/2004	4	0.1	0.05	0.05	0.05	0.04	0.05	0.2
SB-020(A)	SB-020(A)-9'	3/31/2004	9	0.1	0.05	0.05	0.05	0.04	0.05	0.2
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	50.4 J	0.305 J	0.305 J	6.76 J	0.926 J	8.15 J	5.64 J
SB-027(A)	SB-027 (A)-11	9/14/2005	11	59.2 J	0.277 J	0.277 J	16.9 J	0.477 J	8.24 J	5.63 J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	0.0611 J	0.0305 J	0.0305 J	0.0305 J	0.0244 J	0.0305 J	0.122 J
SB-100(C)	SB100(C)3	8/22/2002	3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
SB-100(C)	SB100(C)20	8/22/2002	20	0.179 B,J	0.001	0.001	0.0705	0.00306	0.0427	0.00675
SB-101(C)	SB101(C)3	8/22/2002	3	0.001 B	0.001	0.001	0.000333 J	0.001	0.001	0.001
SB-101(C)	SB101(C)18	8/22/2002	18	0.001 B	0.001	0.001	0.001	0.001	0.001	0.001
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.001 B	0.001	0.001	0.001	0.001	0.001	0.001
SB-102(C)	SB102(C)18	8/22/2002	18	0.001 B	0.001	0.001	0.001	0.001	0.001	0.001
SB-103(C)	SB103(C)3	8/22/2002	3	0.001 B	0.001	0.001	0.001	0.001	0.001	0.001
SB-103(C)	SB103(C)18	8/22/2002	18	0.001 B	0.001	0.001	0.00018 J	0.000291 J	0.000263 J	0.001
SB-104(C)	SB104(C)4	8/22/2002	4	0.001 B	0.001	0.001	0.001	0.001	0.001	0.001
SB-104(C)	SB104(C)20	8/22/2002	20	0.001	0.001	0.001	0.001	0.001	0.001	0.001

TABLE D-2

RBDMVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene		1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene		Benzene	Ethylbenzene		Isopropylbenzene
			feet	mg/kg		mg/kg	mg/kg	mg/kg		mg/kg	mg/kg		mg/kg
SB-200(C)	SB200(C)3	8/22/2002	3	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-200(C)	SB200(C)6	8/22/2002	6	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-201(C)	SB201(C)3	8/22/2002	3	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-201(C)	SB201(C)6	8/22/2002	6	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-202(C)	SB202(C)2	8/22/2002	2	0.00329	B,J	0.001	0.001	0.00273		0.001	0.000475	J	0.001
SB-202(C)	SB202(C)3	8/22/2002	3	0.001	B	0.001	0.001	0.001		0.001	0.00015	J	0.001
SB-202(C)	SB202(C)7	8/22/2002	7	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-203(C)	SB203(C)3	8/22/2002	3	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-203(C)	SB203(C)7	8/22/2002	7	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-204(C)	SB204(C)3	8/22/2002	3	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-204(C)	SB204(C)8	8/22/2002	8	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-206(C)	SB206(C)-6	8/27/2002	6	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-209(C)	SB209(C)-3	8/27/2002	3	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.001	B	0.001	0.001	0.000159	J	0.001	0.000169	J	0.001
SB-211(C)	SB211(C)-3	8/27/2002	3	0.001	B	0.001	0.001	0.000173	J	0.001	0.001		0.001
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-213(C)	SB213(C)-4	8/27/2002	4	0.001	B	0.001	0.001	0.000157	J	0.001	0.00022	J	0.001
SB-214(C)	SB214(C)-5	8/27/2002	5	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-215(C)	SB215(C)-5	8/27/2002	5	0.001	B	0.001	0.001	0.001		0.001	0.000147	J	0.001
SB-216(C)	SB216(C)-3	8/27/2002	3	0.001	B	0.001	0.001	0.000158	J	0.001	0.000147	J	0.001
SB-217(C)	SB217(C)-3	8/28/2002	3	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-219(C)	SB219(C)-4	8/28/2002	4	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.001		0.001	0.001	0.001		0.001	0.001		0.001
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.001	B	0.001	0.001	0.001		0.001	0.001		0.001
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.001		0.001	0.001	0.001		0.001	0.001		0.001

TABLE D-2

RBDMVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene		1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene		Benzene		Ethylbenzene		Isopropylbenzene	
			feet	mg/kg		mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg	
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.001	B	0.001	0.001	0.000159	J	0.001		0.001		0.001	
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.001	B	0.001	0.001	0.001		0.001		0.001		0.001	
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.001	B	0.001	0.001	0.000184	J	0.001		0.00016	J	0.001	
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.001	B	0.001	0.001	0.001		0.001		0.001		0.001	
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.0304	J,B	0.001	0.001	0.001		0.001		0.000882	J	0.00746	
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.001	B	0.001	0.001	0.000336	J	0.001		0.000509	J	0.001	
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.000189	J	0.001	0.001	0.001		0.001		0.001		0.001	
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.001		0.001	0.001	0.001		0.001		0.001		0.001	
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.001		0.001	0.001	0.001		0.001		0.001		0.001	
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.000156	J	0.001	0.001	0.001		0.001		0.001		0.001	
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.000947	J	0.001	0.001	0.000377	J	0.001		0.000441	J	0.001	
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.001		0.001	0.001	0.001		0.001		0.001		0.001	
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.001		0.001	0.001	0.001		0.001		0.001		0.001	
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.001		0.001	0.001	0.001		0.001		0.000151	J	0.001	
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.001		0.001	0.001	0.001		0.001		0.001		0.001	
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.001	B	0.001	0.001	0.000448	J	0.001		0.000615	J	0.001	
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.0021	J,B	0.001	0.001	0.000611	J	0.001		0.00102		0.001	
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.001	B	0.001	0.001	0.00042	J	0.001		0.000536	J	0.001	
SB-253(C)	SB-253(C)-2	9/4/2003	2	0.1		0.05	0.05	0.05		0.05		0.05		0.2	
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	0.1		0.05	0.05	0.05		0.05		0.05		0.2	
SB-254(C)	SB-254(C)-2	9/4/2003	2	0.1		0.05	0.05	0.05		0.05		0.05		0.2	
SB-254(C)	SB-254(C)-7	9/4/2003	7	0.1		0.05	0.05	0.05		0.05		0.05		0.2	
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	0.0136	J	0.05	0.05	0.05		0.05		0.05		0.2	
SB-255(C)	SB-255(C)-7	9/4/2003	7	0.0355	J	0.05	0.05	0.02	J	0.0122	J	0.05		0.2	
SB256(C)	SB256 (c) 6	3/31/2004	6	0.1		0.1	0.1	0.1		0.1		0.1		0.2	
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	26.7		0.1	0.1	9.38		0.1		0.751		0.371	J
SB-304(D)	SB-304-D-2.0	8/19/2002	2	23.7		0.1	0.1	8.97		0.1		0.593		0.283	J
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	8.6		0.05	0.05	3.99		0.05		0.0974		0.0552	J
SB-304(D)	SB-304-D-5.0	8/19/2002	5	30.1		0.1	0.1	7.28		0.1		1.34		0.626	
SB-305(D)	SB-305-D-2.0	8/19/2002	2	23.1		0.1	0.1	5.69		0.1		0.728		0.308	J
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	2.36		0.05	0.05	0.569		0.05		0.125		0.0445	J
SB-306(D)	SB-306-D-2.0	8/19/2002	2	34.9		0.1	0.1	17		0.0263	J	3.47		2.72	
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	0.547		0.1	0.1	4.51		0.265		3.16		9.51	
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.00031		0.001	0.001	0.001		0.001		0.001		0.001	
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.0118	J	0.05	0.05	0.05		0.05		0.015		0.2	
SB-309(D)	SB-309-D-2.0	8/19/2002	2	6.8		0.05	0.05	2.25		0.0526		1.95		0.83	
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.000703		0.00105	0.001	0.00051	J	0.000283	J	0.000453	J	0.000227	J
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.119		0.05	0.05	0.0453	J	0.05		0.0227		0.0215	J
SB-310(D)	SB-310-D-2.0	8/19/2002	2	13.7		0.05	0.05	3.83		0.05		0.314		0.313	

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Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-310(D)	SB-310-D-5.0	8/19/2002	5	41.3	0.25	0.25	49.6	0.226 J	6.96	11.2
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.000442	0.001	0.001	0.001	0.001	0.001	0.001
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.0485 J	0.05	0.05	0.0216 J	0.05	0.0183	0.2
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.000709	0.001	0.001	0.000451 J	0.001	0.000193 J	0.001
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.044 J	0.05	0.05	0.0451 J	0.05	0.0183	0.0183 J
SB-313(D)	SB-313-D-5.0	8/20/2002	5	14.4	0.05	0.05	5.18	0.0376 J	2.59	0.504
SB-313(D)	SB-313-D-18.0	8/20/2002	18	3.74	0.05	0.05	0.517	0.05	3.95	3.67
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.179	0.001	0.000315 J	0.065	0.00516	0.17	0.0137
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.313	0.05	0.05	0.108	0.05	0.219	0.0492 J
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.00447	0.001	0.000304 J	0.0182	0.00371	0.0164	0.00172
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.0318 J	0.05	0.05	0.045 J	0.05	0.0569	0.0132 J
SB-315(D)	SB-315-D-15.0	8/20/2002	15	0.0151	0.001	0.001	0.00119	0.000165 J	0.000461	0.001
SB-315(D)	SB-315-D-15.0	8/20/2002	15	0.133	0.05	0.05	0.0143 J	0.05	0.0176 J	0.2
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.000663	0.001	0.001	0.000275	0.00149	0.00247	0.001
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.1	0.05	0.05	0.05	0.05	0.02 J	0.2
SB-316(D)	SB-316-D-5.0	8/20/2002	5	95.2	0.25	0.25	31.6	0.114 J	32	4.06
SB-316(D)	SB-D-DUP-3	8/20/2002	5	44.5	0.1	0.1	13.5	0.168	17.6	1.94
SB-316(D)	SB-316-D-10.0	8/20/2002	10	174	0.5	0.5	55.1	1.52	53.7	6.97
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	115	0.25	0.25	36.4	0.37	25.5	4.99
SB-318(D)	SB-318-D-10.0	8/20/2002	10	80.2	0.25	0.25	25	0.25	15.6	2.22
SB-318(D)	SB-318-D-15.0	8/20/2002	15	63.1	1	1	18.6	1	13	1.68 J
SB-320(D)	SB-320(D)-2	9/10/2003	2	0.0334	0.05	0.05	0.05	0.05	0.05	0.2
SB-320(D)	SB-320(D)-5	9/10/2003	5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-321(D)	SB-321(D)-2	9/9/2003	2	10.3	0.05	0.05	0.187	0.0456 J	1.9	0.313
SB-321(D)	SB-321(D)-5	9/9/2003	5	39.5	0.25	0.25	22.2	0.563	3.52	3.76
SB-322(D)	SB-322(D)-2	9/10/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-322(D)	SB-322(D)-5	9/10/2003	5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-323(D)	SB-323(D)-7	9/10/2003	7	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-324(D)	SB-324(D)-2	9/10/2003	2	0.0526	0.05	0.05	0.05	0.05	0.05	0.2
SB-324(D)	SB-324(D)-5	9/10/2003	5	0.0187	0.05	0.05	0.05	0.05	0.05	0.2
SB-324(D)	SB-324(D)-10	9/10/2003	10	18.2	0.1	0.1	0.41	0.141	0.381	1.38
SB-324(D)	SB-324(D)-15	9/10/2003	15	0.824	0.05	0.05	0.146	0.0328	0.298	0.0644
SB-324(D)	SB-324(D)-DUP	9/10/2003	15	7.29	0.05	0.05	0.86	0.156	0.972	0.485
SB-325(D)	SB-325(D)-2	9/10/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-325(D)	SB-325(D)-DUP	9/10/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-325(D)	SB-325(D)-5	9/10/2003	5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-325(D)	SB-325(D)-10	9/10/2003	10	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-325(D)	SB-325(D)-15	9/10/2003	15	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-326(D)	SB-326(D)-2	9/9/2003	2	0.123	0.05	0.05	0.0537	0.0689	0.0234	0.2
SB-326(D)	SB-326(D)-5	9/9/2003	5	22.5	0.25	0.25	8.02	0.599	7.91	1.06

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-326(D)	SB-326(D)-10	9/9/2003	10	26.6	0.25	0.25	9.67	0.639	9.62	1.28
SB-327(D)	SB-327(D)-2	9/10/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-327(D)	SB-327(D)-5	9/10/2003	5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-327(D)	SB-327(D)-10	9/10/2003	10	8.15	0.1	0.1	1.19	0.1	0.158	0.655
SB-327(D)	SB-327(D)-15	9/10/2003	15	40.8	0.25	0.25	5.59	0.25	10.1	1.81
SB-328(D)	SB-328(D)-2	9/10/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-328(D)	SB-328(D)-5	9/10/2003	5	0.0888 J	0.05	0.05	0.0407 J	0.05	0.0493 J	0.2
SB-328(D)	SB-328(D)-10	9/10/2003	10	77	0.5	0.5	13.1	0.472 J	0.695	3.18
SB-328(D)	SB-328(D)-15	9/10/2003	15	0.313	0.05	0.05	0.109	0.0414	0.0515	0.0364
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5					0.05	0.05	
SB-400(F)	SB-400(F)-5	8/22/2002	5					0.05 J	0.05 J	
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5					0.05 J	0.05 J	
SB-401(F)	SB-401(F)-20	8/23/2002	20					0.05	0.05	
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	0.00354	0.001	0.001	0.00112	0.05	0.05	0.000321
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5					0.00116	0.00357	
SB-402(F)	SB-402(F)-20	8/23/2002	20					0.05 J	0.05 J	
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5					0.05	0.05	
SB-404(F)	SB-404(F)-20	8/22/2002	20					0.05	0.05	
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5					0.05	0.05	
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	21.7	0.05	0.05	5.58	0.05	0.593	0.36
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5					0.1 J	0.138 J	
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5					0.05	0.05	
SB-406(F)	SB-406(F)-8	8/22/2002	8					0.05 J	0.05 J	
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5					0.05	0.05	
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7					1	3.19	
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	24 J	0.1 J	0.1 J	9.48 J	0.1 J	0.22 J	0.535 J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5					1 J	1.02 J	
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.000415 J	0.001	0.001	0.000208 J	0.001	0.001	0.001
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5					0.05	0.05	
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5					0.05	0.296	
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5					0.05 J	0.05 J	
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5					0.05	0.05	
SB-409(F)	SB-409(F)-5	8/22/2002	5					0.05	0.05	
SB-410(F)	SB-410(F)-2'	3/31/2004	2	0.0186 J	0.05	0.05	0.05	0.04	0.05	0.2
SB-410(F)	SB-410(F)-4'	3/31/2004	4	0.1	0.05	0.05	0.05	0.04	0.05	0.2
SB-410(F)	SB-410(F)-9'	3/31/2004	9	0.1	0.05	0.05	0.05	0.04	0.05	0.2
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10					0.05	0.05 J	
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6					0.03 J	0.418	

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene		Ethylbenzene		Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10					6.11		32.3		
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10					0.0763	J	0.518		
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10					0.5		0.5	J	
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11					0.05	J	0.05	J	
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10					0.101	J	0.616		
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10					2.14		13.5		
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10					2.61		7.79		
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10					3.12		32.7		
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10					0.05	J	0.05	J	
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10					1.43	J	6.53		
SB-600(N)	SB-600(N)-7	9/13/2002	7					5		31.6		
SB-601(N)	SB-601(N)-3	9/13/2002	3	0.1	0.05	0.05	0.05	0.05		0.05		0.2
SB-601(N)	SB-601(N)-7	9/13/2002	7	252	5	5	65.9	5		83		20
SB-601(N)	SB-601(N)-7	9/13/2002	7					10		82.2		
SB-602(N)	SB-602(N)-3	9/13/2002	3					0.05		0.05		
SB-602(N)	SB-602(N)-7	9/13/2002	7	689	2.5	2.5	189	7.84		204		22.6
SB-602(N)	SB-602(N)-7	9/13/2002	7					1		3.39		
SB-603(N)	SB-603(N)-7	9/13/2002	7	151	2.5	2.5	40.3	2.5		42		10
SB-603(N)	SB-603(N)-7	9/13/2002	7					5		71.5		
SB-604(N)	SB-604(N)-3	9/13/2002	3					0.05		0.05		
SB-604(N)	SB-604(N)-7	9/13/2002	7	392	1	1	118	1		35.4		12.1
SB-605(N)	SB-605(N)-3	9/13/2002	3	20.3	0.05	0.05	4.02	0.157		4.3		0.543
SB-605(N)	SB-605(N)-7	9/13/2002	7	567	2.5	2.5	137	3.22		151		17.7
SB-606(N)	SB-606(N)-3	9/13/2002	3					0.05		0.05		
SB-606(N)	SB-606(N)-7	9/13/2002	7					0.05		0.05		
SB-607(N)	SB-607(N)-11	9/13/2002	11					0.05		0.05		
SB-608(N)	SB-608(N)-3	9/13/2002	3	0.1	0.05	0.05	0.05	0.05		0.05		0.2
SB-608(N)	SB-608(N)-6	9/13/2002	6	0.1	0.05	0.05	0.05	0.05		0.05		0.213
SB-609(N)	SB-609(N)-3	9/13/2002	3	0.1	0.05	0.05	0.05	0.05		0.05		0.2
SB-609(N)	SB-609(N)-7	9/13/2002	7	0.1	0.05	0.05	0.05	0.05		0.05		0.2
SB-612(N)	SB-612 (N)-7	9/12/2002	7	480	2.5	2.5	148	5.35		148		15.2
SB-612(N)	SB-612 (N)-7	9/12/2002	7					17.2		90.1		
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5					5		26.2		
SB-614(N)	SB-614 (N)-7	9/12/2002	7					1		11.9		
SB-615(N)	SB-615 (N)-7	9/12/2002	7					1		29.4		
SB-616(N)	SB-616 (N)-7	9/12/2002	7					5		68.5		
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.1	0.05	0.05	0.05	0.05		0.05		0.2
SB-617(N)	SB-617 (N)-3	9/12/2002	3					0.05		0.05		
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5					0.05		0.05		

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Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5					0.05	0.05	
SB-618(N)	SB-618 (N)-7	9/12/2002	7	150	1	1	47.3	1	27.3	2.95
SB-618(N)	SB-618 (N)-7	9/12/2002	7					1	31.9	
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-619(N)	SB-619 (N)-7	9/12/2002	7					0.05	0.05	
SB-619(N)	SB-619 (N)-11	9/12/2002	11	284	0.5	0.5	58.3	0.5	141	10.2
SB-619(N)	SB-619 (N)-11	9/12/2002	11					0.05	0.356	
SB-620(N)	SB-620 (N)-3	9/12/2002	3					0.05	0.05	
SB-620(N)	SB-620 (N)-7	9/12/2002	7	121	2.5	2.5	39.3	2.5	20.9	10
SB-620(N)	SB-620 (N)-7	9/12/2002	7					5	21.2	
SB-621(N)	SB-621 (N)-7	9/12/2002	7					0.05	0.05	
SB-622(N)	SB-622 (N)-2	9/12/2002	2					0.05	0.05	
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.00294	0.001	0.001	0.001	0.001	0.00168	0.001
SB-622(N)	SB-622 (N)-7	9/12/2002	7					0.05	0.05	
SB-623(N)	SB-623 (N)-7	9/12/2002	7	102	0.5	0.5	4.24	1	8.19	5.34
SB-623(N)	SB-623 (N)-7	9/12/2002	7					0.5	18.1	
SB-624(N)	SB-624 (N)-2	9/12/2002	2					0.05	0.05	
SB-624(N)	SB-624 (N)-7	9/12/2002	7	31.9	0.5	0.5	10.5	0.5	3.47	2.65
SB-625(N)	SB-625 (N)-2	9/12/2002	2					0.05	0.05	
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-625(N)	SB-625 (N)-7	9/12/2002	7					0.05	0.05	
SB-625(N)	SB-625 (N)-10	9/12/2002	10					0.05	0.05	
SB-626(N)	SB-626 (N)-7	9/12/2002	7	221	2.5	2.5	66.4	2.5	63.7	10
SB-626(N)	SB-626 (N)-7	9/12/2002	7					5	106	
SB-627(N)	SB-627(N)-2	8/28/2003	2	0.0194 J	0.05	0.05	0.05	0.05	0.05	0.2
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	36.2	0.5	0.5	11.6	0.131 J	6.1	3.19
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	152	0.5	0.5	36.8	0.5	12.4	4.18
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
SB-700(P)	SB-700(P)-3	8/21/2002	3					0.05	0.05	
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	11.7	0.1	0.1	3.97	2	1.5	0.638
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5					0.1	6.12	
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.000115 J	0.001	0.001	0.001	0.001	0.001	0.001
SB-701(P)	SB-701(P)-2	8/20/2002	2					0.05	0.05	
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.000167 J	0.001	0.001	0.001	0.001	0.001	0.001
SB-701(P)	SB-701(P)-11	8/20/2002	11					0.05	0.05	
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.0134	0.001	0.001	0.000329 J	0.001	0.0102	0.000848 J
SB-701(P)	SB-701(P)-12	8/20/2002	12					0.05	0.05	
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.000218 J	0.001	0.001	0.001	0.000167 J	0.000719 J	0.001
SB-702(P)	SB-702(P)-2	8/21/2002	2					0.05	0.05	

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Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene		1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene		Benzene		Ethylbenzene		Isopropylbenzene
			feet	mg/kg		mg/kg	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.000208	J	0.001	0.001	0.001		0.001		0.000169	J	0.001
SB-702(P)	SB-702(P)-11	8/21/2002	11							0.05		0.05		
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.00328		0.001	0.001	0.00158		0.000395	J	0.00343		0.001
SB-703(P)	SB-703(P)-2	8/21/2002	2							0.05		0.05		
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.000256	J	0.001	0.001	0.000163	J	0.001		0.000256	J	0.001
SB-703(P)	SB-703(P)-10	8/21/2002	10							0.05		0.05		
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.000203	J	0.001	0.001	0.001		0.001		0.000792	J	0.001
SB-704(P)	SB-704(P)-2	8/21/2002	2							0.05		0.05		
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.001		0.001	0.001	0.001		0.001		0.001		0.001
SB-704(P)	SB-704(P)-11	8/21/2002	11							0.05	J-	0.05	J-	
SB-705(P)	SB-705(P)-3	8/20/2002	3							0.05		0.05		
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5							0.05		0.05		
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5							0.05		0.05		
SB-705(P)	SB-705(P)-12	8/20/2002	12							0.05	J-	0.05	J-	
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5							0.05		0.05		
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.00047	J	0.001	0.001	0.000157	J	0.000157	J	0.000569	J	0.001
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5							0.05	J-	0.05	J-	
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5							0.05	J-	0.05		
SB-706(P)	SB-706(P)-12	8/21/2002	12							0.05		0.05		
SB-707(P)	SB-707(P)-2	8/21/2002	2							0.05		0.05		
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.000109	J	0.001	0.001	0.001		0.001		0.001		0.001
SB-707(P)	SB-707(P)-10	8/21/2002	10							0.05		0.05		
SB-708(P)	SB-708(P)-3	8/20/2002	3							0.05		0.05		
SB-708(P)	SB-708(P)-10	8/20/2002	10							0.05		0.05		
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.000222	J	0.001	0.001	0.001		0.001		0.00056	J	0.001
SB-709(P)	SB-709(P)-3	8/21/2002	3							0.05		0.05		
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.000205	B	0.001	0.001	0.001		0.001		0.000229	J	0.001
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.000349	B	0.001	0.001	0.001		0.001		0.000217		0.001
SB-709(P)	SB-709(P)-10	8/21/2002	10							0.05		0.05		
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.000215	J	0.001	0.001	0.001		0.000226	J	0.00102		0.001
SB-710(P)	SB-710(P)-3	8/21/2002	3							0.05		0.05		
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.0011		0.001	0.001	0.000387		0.000373	J	0.00146		0.001
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.000531	J	0.001	0.001	0.00023	J	0.000244		0.00118		0.001
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.000442	J	0.001	0.001	0.000168	J	0.001		0.000768	J	0.001
SB-711(P)	SB-711(P)-3	8/21/2002	3							0.05		0.05		
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.000745	J	0.001	0.001	0.000257	J	0.001		0.000892	J	0.001
SB-711(P)	SB-711(P)-10	8/21/2002	10							0.05		0.05		
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.00101	B	0.001	0.001	0.000392	J	0.001		0.00174		0.001
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.00208	B	0.001	0.001	0.000936		0.001		0.00115		0.001
SB-712(P)	SB-712(P)-2	8/21/2002	2							0.05		0.05		

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Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.000382 J	0.001	0.001	0.000244 J	0.001	0.00292	0.001
SB-712(P)	SB-712(P)-10	8/21/2002	10					0.05	0.05	
SB-713(P)	SB-713(P)-2	8/21/2002	2					0.05	0.05	
SB-713(P)	SB-713(P)-10	8/21/2002	10					0.05	0.05	
SB-714(P)	SB-714(P)-2	8/21/2002	2					0.05	0.05	
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5					2	27.2	
SB-714(P)	SB-714(P)-10	8/21/2002	10	262	1	1	83.5	1	87.1	6.72
SB-714(P)	SB-714(P)-10	8/21/2002	10					5		
SB-715(P)	SB-715(P)-3	8/21/2002	3					0.05 J-	0.05 J-	
SB-715(P)	SB-715(P)-7	8/21/2002	7					0.05	0.05	
SB-715(P)	SB-715(P)-11	8/21/2002	11					0.05	0.05	
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.00018 J	0.001	0.001	0.001	0.001	0.000149 J	0.001
SB-716(P)	SB-716(P)-3	8/20/2002	3					0.05	0.05	
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.001	0.001	0.001	0.001	0.001	0.001	0.001
SB-716(P)	SB-716(P)-10	8/20/2002	10					0.05	0.05	
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.001	0.001	0.001	0.001	0.001	0.001	0.001
SB-717(P)	SB-717(P)-3	8/20/2002	3					0.05	0.05	
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.001	0.001	0.001	0.001	0.001	0.001	0.001
SB-717(P)	SB-717(P)-10	8/20/2002	10					0.05	0.05	
SB-718(P)	SB-718(P)-2	8/21/2002	2					0.05	0.05	
SB-718(P)	SB-718(P)-10	8/21/2002	10					0.05	0.05	
SB-719(P)	SB-719(P)-5	8/23/2002	5					0.05	0.05	
SB-719(P)	SB-719(P)-12	8/23/2002	12					0.05 J-	0.05 J-	
SB-720(P)	SB-720(P)-2	8/23/2002	2					0.05	0.05	
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5					5.86	44.9	
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5					5	41.4	
SB-721(P)	SB-721(P)-7'	3/31/2004	7	0.1	0.05	0.05	0.05	0.04	0.05	0.2
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2					0.05	0.05	
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5					0.05 J/J	0.05 J/J	
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-					0.05	0.05	
SB-801(Q)	SB801(Q)-2	8/26/2002	2					0.05	0.05	
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5					0.05	0.05	
SB-801(Q)	SB801(Q)-0	8/26/2002	-					0.05	0.05	
SB-802(Q)	SB802(Q)-2	8/26/2002	2					0.05	0.05	
SB-802(Q)	SB802(Q)-9	8/26/2002	9					0.05	0.05	
SB-802(Q)	SB802(Q)-0	8/26/2002	-					0.05	0.05	
SB-803(Q)	SB803(Q)-2	8/26/2002	2					0.05	0.05	
SB-803(Q)	SB803(Q)-9	8/26/2002	9					0.05	0.05	
SB-803(Q)	SB803(Q)-0	8/26/2002	-					0.05	0.05	

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Remedial Investigation/Feasibility Study
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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene		Ethylbenzene		Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg		mg/kg
SB-804(Q)	SB-804(Q)-2	8/26/2002	2					0.05		0.05		
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5					0.05		0.05		
SB-804(Q)	SB-804(Q)-0	8/26/2002	-					0.05		0.05		
SB-805(Q)	SB-805(Q)-2	8/26/2002	2					0.05		0.05		
SB-805(Q)	SB-805(Q)-10	8/26/2002	10					0.05		0.05		
SB-805(Q)	SB-805(Q)-0	8/26/2002	-					0.05		0.05		
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2					0.05		0.05		
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8					0.05		0.05		
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11					0.05		0.05		
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-					0.05		0.05		
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7					0.5	J	13	J	
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9					0.0632		0.172		
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-					0.05		0.05		
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2					0.05		0.05		
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5					0.05	J/J	0.05	J/J	
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-					0.05		0.05		
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2					0.05		0.05		
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8					0.05		0.05		
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-					0.05		0.05		
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5					0.05		0.05		
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9					0.05	J/J	0.05	J/J	
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9					0.05	J/J	0.05	J/J	
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-					0.05		0.05		
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5					0.05		0.05		
SB-812(Q)	SB812(Q)-9	8/27/2002	9					0.05		0.05		
SB-812(Q)	SB812(Q)-0	8/27/2002	-					0.05		0.05		
SB-813(Q)	SB813(Q)-5	8/27/2002	5					0.05		0.05		
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5					0.05		0.05		
SB-813(Q)	SB813(Q)-0	8/27/2002	-					0.05	R	0.05	R	
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5					0.05		0.05		
SB-814(Q)	SB814(Q)-9	8/27/2002	9					0.05		0.05		
SB-814(Q)	SB814(Q)-0	8/27/2002	-					0.05		0.05		
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5					0.05		0.05		
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5					0.05		0.05		
SB-815(Q)	SB815(Q)-0	8/27/2002	-					0.05		0.05		
SB-816(Q)	SB816(Q)-2	8/27/2002	2					0.05		0.05		
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5					0.05		0.05		
SB-816(Q)	SB816(Q)-0	8/27/2002	-					0.05		0.05		
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2					0.05		0.05		
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9					0.05		0.05		

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Remedial Investigation/Feasibility Study
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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-					0.05	0.05	
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4					0.05	0.05	
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9					0.05	0.05	
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-					0.05	0.05	
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5					0.05	0.05	
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11					0.05	0.05	
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-					0.05	0.05	
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2					0.05	0.05	
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9					0.05	0.05	
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9					3.54 J	8.72 J	
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-					0.05	0.05	
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.0144 J	0.1	0.1	0.1	0.1	J	0.0189 J
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5					1.29 J	19.9 J	
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5					0.2 J	6.57 J	
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9					0.05	0.174	
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-					0.05	0.05	
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2					0.05	0.05	
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2					0.05	0.05	
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8					0.307 J	17.7 J	
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10					0.05	0.05	
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-					0.05	0.05	
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2					0.05	0.05	
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9					0.05	0.05	
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-					0.05	0.05	
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3					0.05	0.05	
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9					0.05	0.05	
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-					0.05	0.05	
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2					0.05	0.05	
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9					0.05 J/J	0.05 J/J	
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-					0.05	0.05	
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3					0.05	0.05	
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9					0.05	0.05	
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-					0.05	0.05	
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2					0.05	0.05	
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5					0.05	0.05	
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-					0.05	0.05	
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2					0.05	0.05	
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5					0.05 J/J	0.05 J/J	
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-					0.05 J/J	0.05 J/J	
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2					0.05	0.05	

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RBDMVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2					0.05	0.05	
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9					0.05	0.05	
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-					0.05	0.05	
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2					0.05	0.05	
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5					0.05	0.05	
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-					0.05	0.05	
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4					0.05	0.05	
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9					0.05	0.05	
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-					0.05	0.05	
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2					0.05	0.05	
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9					0.05	0.05	
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-					0.05	0.05	
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2					0.05	0.05	
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5					0.05	0.05	
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-					0.05	0.05	
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	0.0334 J	0.05	0.05	0.0108 J	0.05	0.0119 J	0.2
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	0.0166 J	0.05	0.05	0.05	0.05	0.05	0.2
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.001	0.001	0.001	0.001	0.001	0.001	0.001
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-900(S)	SB-900(S)-12	8/26/2002	12					5	8.56	
SB-901(S)	SB-901 (S)-8	8/26/2002	8					0.05	0.05	
SB-901(S)	SB-901 (S)-10	8/26/2002	10					0.05	0.05	
SB-902(S)	SB-902 (S)-8	8/26/2002	8					0.05	0.05	
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.0122	0.001	0.001	0.001	0.001	0.001	0.0093
SB-903(S)	SB-903 (S)-8	8/26/2002	8					0.05	0.05	
SB-903(S)	SB-903 (S)-10	8/26/2002	10	6.02	0.25	0.25	1.5	0.25	0.0816 J	0.185 J
SB-903(S)	SB-903 (S)-10	8/26/2002	10					0.5	0.5	
SB-904(S)	SB-904 (S)-4	8/26/2002	4					0.05	0.05	
SB-904(S)	SB-904 (S)-12	8/26/2002	12	5.37	0.25	0.25	1.3	1	1	0.298 J
SB-904(S)	SB-904 (S)-12	8/26/2002	12					0.25	0.298	
SB-905(S)	SB-905 (S)-4	8/26/2002	4					0.05	0.05	
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.000895 J	0.001	0.001	0.000184 J	0.001	0.001	0.001
SB-905(S)	SB-905 (S)-12	8/26/2002	12					0.05	0.05	
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.001	0.001	0.001	0.001	0.001	0.001	0.001
SB-906(S)	SB-906 (S)-12	8/27/2002	12	14	0.05	0.05	3.91	0.05	0.304	0.5
SB-908(S)	SB-908 (S)-4	8/27/2002	4	1.1	0.05	0.05	0.456	0.05	0.147	0.0353 J
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.001	0.001	0.001	0.000215 J	0.001	0.000194 J	0.001

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.001	0.001	0.001	0.000164 J	0.05	0.05	0.001
SB-908(S)	SB-908 (S)-10	8/27/2002	10					0.001	0.001	
SB-909(S)	SB-909 (S)-4	8/27/2002	4					0.05	0.05	
SB-909(S)	SB-909 (S)-10	8/27/2002	10					0.05	0.05	
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.001	0.001	0.001	0.000375 J	0.001	0.000279 J	0.001
SB-910(S)	SB-910 (S)-10	8/27/2002	10					0.05	0.05	
SB-911(S)	SB-911 (S)-8	8/27/2002	8					0.05	0.05	
SB-911(S)	SB-911 (S)-10	8/27/2002	10					0.05	0.05	
SB-912(S)	SB-912(S)-2	9/3/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-912(S)	SB-912(S)-7	9/3/2003	7	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-913(S)	SB-913(S)-2	9/3/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-913(S)	SB-913(S)-7	9/3/2003	7	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-914(S)	SB-914(S)-2	9/3/2003	2	0.1	0.05	0.05	0.05	0.05	0.05	0.2
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	0.1	0.05	0.05	0.05	0.05	0.05	0.2
TP-201(C)	TP201(C)6E	8/27/2002	-	0.000304 J	0.001	0.001	0.001	0.001	0.001	0.001
TP-202(C)	TP202(C)6W	8/27/2002	-	0.000247 J	0.001	0.001	0.001	0.001	0.001	0.001

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RBDMVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-				0.05		0.05
EX-2(S)	Ex-2/S-1	3/30/2004	-				0.053		0.129
EX-3(S)	Ex-3/S-1	3/31/2004	-				0.05		0.05
EX-4(S)	Ex-4/S-1	3/29/2004	-				0.05		0.05
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	0.2	0.05		0.05		0.1
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	0.2	0.05		0.05		0.1
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	0.2	0.05		0.05		0.1
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	0.2	0.05		0.05		0.1
SB-005(A)	SB-005(A)-7	9/5/2003	7	0.2	0.05		0.05		0.1
SB-006(A)	SB-006(A)-7'	3/31/2004	7	2	34.7		0.832		86.9
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	10	38.2		1.24 J		120
SB-008(A)	SB-008(A)-2	8/26/2003	2	0.2	0.05		0.05		0.1
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	0.2	0.05		0.05		0.1
SB-009(A)	SB-009(A)-2	8/27/2003	2	0.2	0.05		0.05		0.1
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	2	3.9		0.245 J		1.32
SB-010(A)	SB-010(A)-2	8/27/2003	2	0.2	0.05		0.05		0.1
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	0.2	0.05		0.05		0.1
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	0.2	0.05		0.05		0.1
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	0.2	0.05		0.05		0.1
SB-015(A)	SB-015(A)-7	9/10/2003	7	1	5.61		7.4		64.6
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	0.2	0.05		0.05		0.1
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	0.2	0.05		0.05		0.1
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	10	38.3		2.38 J		134
SB-020(A)	SB-020(A)-4'	3/31/2004	4	0.2	0.05		0.05		0.1
SB-020(A)	SB-020(A)-9'	3/31/2004	9	0.2	0.05		0.05		0.1
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	0.244 J	12.8 J		0.305 J		6.92 J
SB-027(A)	SB-027 (A)-11	9/14/2005	11	0.222 J	13.2 J		0.277 J		6.5 J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	0.0244 J	0.0305 J		0.0305 J		0.0611 J
SB-100(C)	SB100(C)3	8/22/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-100(C)	SB100(C)20	8/22/2002	20	0.01	0.001 B	0.0613	0.0046	0.14	
SB-101(C)	SB101(C)3	8/22/2002	3	0.01	0.001	0.000206 J	0.001	0.000401 J	
SB-101(C)	SB101(C)18	8/22/2002	18	0.01	0.001	0.001	0.001	0.000211 J	
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.01	0.001	0.001	0.001	0.002	
SB-102(C)	SB102(C)18	8/22/2002	18	0.01	0.001	0.001	0.001	0.000229 J	
SB-103(C)	SB103(C)3	8/22/2002	3	0.01	0.001	0.001	0.001	0.000272 J	
SB-103(C)	SB103(C)18	8/22/2002	18	0.01	0.001	0.000415 J	0.000816 J	0.000941 J	
SB-104(C)	SB104(C)4	8/22/2002	4	0.01	0.001	0.001	0.001	0.000311 J	
SB-104(C)	SB104(C)20	8/22/2002	20	0.01	0.001	0.001	0.001	0.002	

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RBDMVOCs IN SOIL

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)3	8/22/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-200(C)	SB200(C)6	8/22/2002	6	0.01	0.001	0.001	0.001	0.000231 J	
SB-201(C)	SB201(C)3	8/22/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-201(C)	SB201(C)6	8/22/2002	6	0.01	0.001	0.001	0.001	0.002	
SB-202(C)	SB202(C)2	8/22/2002	2	0.01	0.001	0.000917 J	0.000508 J	0.00119 J	
SB-202(C)	SB202(C)3	8/22/2002	3	0.01	0.001	0.001	0.001	0.000396 J	
SB-202(C)	SB202(C)7	8/22/2002	7	0.01	0.001	0.001	0.001	0.002	
SB-203(C)	SB203(C)3	8/22/2002	3	0.01	0.001	0.001	0.001	0.000248 J	
SB-203(C)	SB203(C)7	8/22/2002	7	0.01	0.001	0.001	0.001	0.002	
SB-204(C)	SB204(C)3	8/22/2002	3	0.01	0.001	0.001	0.001	0.000244 J	
SB-204(C)	SB204(C)8	8/22/2002	8	0.01	0.001	0.001	0.001	0.002	
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.01	0.001	0.001	0.001	0.002	
SB-206(C)	SB206(C)-6	8/27/2002	6	0.01	0.001	0.001	0.001	0.002	
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.01	0.001	0.001	0.001	0.002	
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.01	0.001	0.001	0.001	0.002	
SB-209(C)	SB209(C)-3	8/27/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.01	0.001	0.001	0.001	0.002	
SB-211(C)	SB211(C)-3	8/27/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.01	0.001	0.001	0.001	0.002	
SB-213(C)	SB213(C)-4	8/27/2002	4	0.01	0.001	0.001	0.001	0.002	
SB-214(C)	SB214(C)-5	8/27/2002	5	0.01	0.001	0.001	0.001	0.002	
SB-215(C)	SB215(C)-5	8/27/2002	5	0.01	0.001	0.001	0.001	0.002	
SB-216(C)	SB216(C)-3	8/27/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-217(C)	SB217(C)-3	8/28/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.01	0.001	0.001	0.001	0.002	
SB-219(C)	SB219(C)-4	8/28/2002	4	0.01	0.001	0.001	0.001	0.002	
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.01	0.001	0.001	0.001	0.002	
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.01	0.001	0.001	0.001	0.002	
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.01	0.001	0.001	0.001	0.002	
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.01	0.001	0.001	0.001	0.002	
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.01	0.001	0.001	0.001	0.002	
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.01	0.001	0.001	0.001	0.002	
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.01	0.001	0.001	0.001	0.002	
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.01	0.001	0.001	0.001	0.002	
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.01	0.001	0.001	0.001	0.002	
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.01	0.001	0.001	0.001	0.002	
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.01	0.001	0.001	0.001	0.002	

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RBDMVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.01	0.001	0.001	0.001	0.002	
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.01	0.001	0.001	0.001	0.002	
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.01	0.001	0.001	0.001	0.002	
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.01	0.00597 J,B	0.001	0.001	0.000868 J	
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.01	0.001 B	0.001	0.001	0.00039 J	
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.01	0.001	0.001	0.001	0.002	
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.01	0.001	0.001	0.001	0.002	
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.01	0.001	0.001	0.001	0.002	
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.01	0.001	0.001	0.001	0.002	
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.01	0.000248 J	0.001	0.001	0.002	
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.01	0.001	0.001	0.001	0.002	
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.01	0.001	0.001	0.001	0.002	
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.01	0.001	0.001	0.001	0.002	
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.01	0.001	0.001	0.001	0.002	
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.01	0.001 B	0.001	0.001	0.00076 J	
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.01	0.001 B	0.000443 J	0.001	0.00219	
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.01	0.001 B	0.001	0.001	0.00062 J	
SB-253(C)	SB-253(C)-2	9/4/2003	2	0.2	0.05		0.05		0.1
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	0.2	0.05		0.05		0.1
SB-254(C)	SB-254(C)-2	9/4/2003	2	0.2	0.05		0.05		0.1
SB-254(C)	SB-254(C)-7	9/4/2003	7	0.2	0.05		0.05		0.1
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	0.2	0.05		0.0237 J		0.1
SB-255(C)	SB-255(C)-7	9/4/2003	7	0.2	0.05		0.0189 J		0.1
SB256(C)	SB256 (c) 6	3/31/2004	6	0.1	0.1	0.1	0.1	0.2	
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	0.4	1.82		0.1		1.39
SB-304(D)	SB-304-D-2.0	8/19/2002	2	0.4	1.03		0.1		3.52
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	0.2	0.0822		0.05		0.78
SB-304(D)	SB-304-D-5.0	8/19/2002	5	0.4	2.99		0.1		3.92
SB-305(D)	SB-305-D-2.0	8/19/2002	2	0.4	1.44		0.1		2.56
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	0.2	0.168		0.05		0.249
SB-306(D)	SB-306-D-2.0	8/19/2002	2	0.4	11.6		0.114		7.72
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	0.4	37		0.271		2.57
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.01	0.001		0.001		0.002
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.2	0.05		0.05		0.1
SB-309(D)	SB-309-D-2.0	8/19/2002	2	0.2	2.87		0.234		7.66
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.01	0.000997 J		0.001		0.00152 J
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.2	0.0623		0.05		0.1
SB-310(D)	SB-310-D-2.0	8/19/2002	2	0.2	1.53		0.05		1.34

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-310(D)	SB-310-D-5.0	8/19/2002	5	1	44.3		0.442		32
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.01	0.001		0.001		0.000431 J
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.2	0.05		0.0119 J		0.1
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.01	0.000677 J		0.001		0.000784 J
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.2	0.0397 J		0.05		0.1
SB-313(D)	SB-313-D-5.0	8/20/2002	5	0.2	2.28		0.0201 J		8.46
SB-313(D)	SB-313-D-18.0	8/20/2002	18	0.2	16.1		0.05		1.33
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.01	0.0531		0.0051		0.378
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.2	0.254		0.05		0.429
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.01	0.00316		0.00265		0.0257
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.2	0.0238 J		0.05		0.1
SB-315(D)	SB-315-D-15.0	8/20/2002	15	0.01	0.000735 J		0.001		0.0009
SB-315(D)	SB-315-D-15.0	8/20/2002	15	0.2	0.0143 J		0.05		0.1
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.01	0.00025 J		0.000901 J		0.00494
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.2	0.05		0.05		0.1
SB-316(D)	SB-316-D-5.0	8/20/2002	5	1	16		0.25		69.8
SB-316(D)	SB-D-DUP-3	8/20/2002	5	0.4	7.94		0.0605 J		38
SB-316(D)	SB-316-D-10.0	8/20/2002	10	2	27.3		12.7		304
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	1	18.9		0.427		63.3
SB-318(D)	SB-318-D-10.0	8/20/2002	10	1	10.1		0.0961 J		80
SB-318(D)	SB-318-D-15.0	8/20/2002	15	4	7.2		0.305 J		73.8
SB-320(D)	SB-320(D)-2	9/10/2003	2	0.2	0.05		0.05		0.1
SB-320(D)	SB-320(D)-5	9/10/2003	5	0.2	0.05		0.05		0.1
SB-321(D)	SB-321(D)-2	9/9/2003	2	0.2	1.14		0.0933		4.15
SB-321(D)	SB-321(D)-5	9/9/2003	5	1	14.1		1.45		31.6
SB-322(D)	SB-322(D)-2	9/10/2003	2	0.2	0.05		0.05		0.1
SB-322(D)	SB-322(D)-5	9/10/2003	5	0.2	0.05		0.05		0.1
SB-323(D)	SB-323(D)-7	9/10/2003	7	0.2	0.05		0.05		0.1
SB-324(D)	SB-324(D)-2	9/10/2003	2	0.2	0.05		0.05		0.1
SB-324(D)	SB-324(D)-5	9/10/2003	5	0.2	0.05		0.05		0.1
SB-324(D)	SB-324(D)-10	9/10/2003	10	0.4	3.43		0.1		1.32
SB-324(D)	SB-324(D)-15	9/10/2003	15	0.2	0.191		0.05		0.179
SB-324(D)	SB-324(D)-DUP	9/10/2003	15	0.2	1.43		0.0457 J		1.39
SB-325(D)	SB-325(D)-2	9/10/2003	2	0.2	0.05		0.05		0.1
SB-325(D)	SB-325(D)-DUP	9/10/2003	2	0.2	0.05		0.05		0.1
SB-325(D)	SB-325(D)-5	9/10/2003	5	0.2	0.05		0.05		0.1
SB-325(D)	SB-325(D)-10	9/10/2003	10	0.2	0.05		0.05		0.1
SB-325(D)	SB-325(D)-15	9/10/2003	15	0.2	0.05		0.05		0.1
SB-326(D)	SB-326(D)-2	9/9/2003	2	0.2	0.0289		0.0744		0.1
SB-326(D)	SB-326(D)-5	9/9/2003	5	1	4.21		0.25		19.4

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-326(D)	SB-326(D)-10	9/9/2003	10	1	5.19		0.0752		23.3
SB-327(D)	SB-327(D)-2	9/10/2003	2	0.2	0.05		0.05		0.1
SB-327(D)	SB-327(D)-5	9/10/2003	5	0.2	0.05		0.05		0.1
SB-327(D)	SB-327(D)-10	9/10/2003	10	0.4	1.22		0.1		0.652
SB-327(D)	SB-327(D)-15	9/10/2003	15	1	7.49		0.0932 J		7.42
SB-328(D)	SB-328(D)-2	9/10/2003	2	0.2	0.05		0.05		0.1
SB-328(D)	SB-328(D)-5	9/10/2003	5	0.2	0.037 J		0.05		0.037 J
SB-328(D)	SB-328(D)-10	9/10/2003	10	2	12.4		0.211 J		0.385 J
SB-328(D)	SB-328(D)-15	9/10/2003	15	0.2	0.153		0.05		0.1
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5				0.05		0.05
SB-400(F)	SB-400(F)-5	8/22/2002	5				0.05 J		0.05 J
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5				0.05 J		0.05 J
SB-401(F)	SB-401(F)-20	8/23/2002	20				0.05		0.05
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	0.01	0.000871		0.05		0.05
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5				0.00357		0.0108
SB-402(F)	SB-402(F)-20	8/23/2002	20				0.05 J		0.05 J
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5				0.05		0.05
SB-404(F)	SB-404(F)-20	8/22/2002	20				0.05		0.0557
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5				0.05		0.05
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	0.2	2.13		0.05		3.78
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5				0.1 J		0.708 J
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5				0.05		0.05
SB-406(F)	SB-406(F)-8	8/22/2002	8				0.05 J		0.05 J
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5				0.05		0.05
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7				1.47		4.68
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	0.4 J	3.68 J		0.1 J		1.21 J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5				1 J		6.01 J
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.01	0.001		0.001		0.002
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5				0.05		0.05
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5				0.05		0.112
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5				0.05 J		0.05 J
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5				0.05		0.05
SB-409(F)	SB-409(F)-5	8/22/2002	5				0.05		0.05
SB-410(F)	SB-410(F)-2'	3/31/2004	2	0.2	0.05		0.05		0.1
SB-410(F)	SB-410(F)-4'	3/31/2004	4	0.2	0.05		0.05		0.1
SB-410(F)	SB-410(F)-9'	3/31/2004	9	0.2	0.05		0.05		0.1
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10				0.05		0.05 J
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6				0.05 J		0.604

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10				2 J		47.1
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10				0.2 J		0.494
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10				0.5 J		0.5
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11				0.05 J		0.05 J
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10				0.5		0.5 J
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10				2.05		43
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10				1 J		4.38
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10				2 J		98.7
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10				0.05 J		0.05 J
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10				2 J		17.6
SB-600(N)	SB-600(N)-7	9/13/2002	7				5		171
SB-601(N)	SB-601(N)-3	9/13/2002	3	0.2	0.05		0.05		0.1
SB-601(N)	SB-601(N)-7	9/13/2002	7	20	34.2		23.2		482
SB-601(N)	SB-601(N)-7	9/13/2002	7				33.9		426
SB-602(N)	SB-602(N)-3	9/13/2002	3				0.05		0.05
SB-602(N)	SB-602(N)-7	9/13/2002	7	10	91.3		169		1160
SB-602(N)	SB-602(N)-7	9/13/2002	7				1		22.5
SB-603(N)	SB-603(N)-7	9/13/2002	7	10	19.2		15.6		253
SB-603(N)	SB-603(N)-7	9/13/2002	7				34.5		393
SB-604(N)	SB-604(N)-3	9/13/2002	3				0.05		0.05
SB-604(N)	SB-604(N)-7	9/13/2002	7	4	57.9		9.61		172
SB-605(N)	SB-605(N)-3	9/13/2002	3	0.2	2.34		0.0785		14.3
SB-605(N)	SB-605(N)-7	9/13/2002	7	10	72.2		2.5		333
SB-606(N)	SB-606(N)-3	9/13/2002	3				0.05		0.05
SB-606(N)	SB-606(N)-7	9/13/2002	7				0.05		0.05
SB-607(N)	SB-607(N)-11	9/13/2002	11				0.05		0.05
SB-608(N)	SB-608(N)-3	9/13/2002	3	0.2	0.05		0.05		0.1
SB-608(N)	SB-608(N)-6	9/13/2002	6	0.2	0.343		0.05		0.1
SB-609(N)	SB-609(N)-3	9/13/2002	3	0.2	0.05		0.05		0.1
SB-609(N)	SB-609(N)-7	9/13/2002	7	0.2	0.05		0.05		0.1
SB-612(N)	SB-612 (N)-7	9/12/2002	7	10	71.5		42.6		931
SB-612(N)	SB-612 (N)-7	9/12/2002	7				19.2		478
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5				7.49		181
SB-614(N)	SB-614 (N)-7	9/12/2002	7				4.57		79.9
SB-615(N)	SB-615 (N)-7	9/12/2002	7				4.43		156
SB-616(N)	SB-616 (N)-7	9/12/2002	7				5		207
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.2	0.05		0.05		0.05
SB-617(N)	SB-617 (N)-3	9/12/2002	3				0.05		0.1
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5				0.05		0.05

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5				0.05		0.106
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1	17.9	29	1	132	137
SB-618(N)	SB-618 (N)-7	9/12/2002	7				4.61		
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.2	0.05		0.05		0.1
SB-619(N)	SB-619 (N)-7	9/12/2002	7				0.05		0.05
SB-619(N)	SB-619 (N)-11	9/12/2002	11	2	36.7		2.65		287
SB-619(N)	SB-619 (N)-11	9/12/2002	11				0.05		0.628
SB-620(N)	SB-620 (N)-3	9/12/2002	3				0.05		0.05
SB-620(N)	SB-620 (N)-7	9/12/2002	7	10	14.3		2.5		121
SB-620(N)	SB-620 (N)-7	9/12/2002	7				5		96.7
SB-621(N)	SB-621 (N)-7	9/12/2002	7				0.05		0.05
SB-622(N)	SB-622 (N)-2	9/12/2002	2				0.05		0.05
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.01	0.001	0.001	0.001	0.00515	0.05
SB-622(N)	SB-622 (N)-7	9/12/2002	7				0.05		
SB-623(N)	SB-623 (N)-7	9/12/2002	7	2	12.9		1		17.4
SB-623(N)	SB-623 (N)-7	9/12/2002	7				0.5		41.5
SB-624(N)	SB-624 (N)-2	9/12/2002	2				0.05		0.05
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.5	6.5	7.89	0.768	16.7	
SB-625(N)	SB-625 (N)-2	9/12/2002	2				0.05		0.05
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.2	0.05		0.05		0.05
SB-625(N)	SB-625 (N)-7	9/12/2002	7				0.05		0.1
SB-625(N)	SB-625 (N)-10	9/12/2002	10				0.05		0.0989
SB-626(N)	SB-626 (N)-7	9/12/2002	7	10	33.8		2.5		295
SB-626(N)	SB-626 (N)-7	9/12/2002	7				5		195
SB-627(N)	SB-627(N)-2	8/28/2003	2	0.2	0.05		0.0302 J		0.1
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	2	7.18		0.5		37.9
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	2	16.6		0.5		63.8
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.01	0.001	0.001	0.001	0.002	0.05
SB-700(P)	SB-700(P)-3	8/21/2002	3				0.05		
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.1	1.4	0.947	2	5.71	16
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5				0.1		
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.01	0.001	0.001	0.001	0.002	0.05
SB-701(P)	SB-701(P)-2	8/20/2002	2				0.05		
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.01	0.001	0.001	0.001	0.000335 J	0.05
SB-701(P)	SB-701(P)-11	8/20/2002	11				0.05		
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.01	0.00315	0.000583 J	0.000418 J	0.0193	0.05
SB-701(P)	SB-701(P)-12	8/20/2002	12				0.05		
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.01	0.001	0.001	0.001	0.00151 J	0.05
SB-702(P)	SB-702(P)-2	8/21/2002	2				0.05		

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.01	0.001	0.001	0.001	0.000415 J	0.05
SB-702(P)	SB-702(P)-11	8/21/2002	11				0.05		
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.01	0.00106	0.000632 J	0.000891 J	0.00593	0.05
SB-703(P)	SB-703(P)-2	8/21/2002	2				0.05		
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.01	0.001	0.001	0.001	0.000525 J	0.05
SB-703(P)	SB-703(P)-10	8/21/2002	10				0.05		
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.01	0.001	0.001	0.001	0.00118 J	0.05
SB-704(P)	SB-704(P)-2	8/21/2002	2				0.05		
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.01	0.001	0.001	0.001	0.002	0.05 J-
SB-704(P)	SB-704(P)-11	8/21/2002	11				0.05 J-		
SB-705(P)	SB-705(P)-3	8/20/2002	3				0.05		0.05
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5				0.05		0.05
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5				0.05		0.05
SB-705(P)	SB-705(P)-12	8/20/2002	12				0.05 J-		0.05 J-
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5				0.05		0.05
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.01	0.001	0.000228 J	0.000697 J	0.00158 J	0.05 J-
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5				0.05 J-		
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5				0.05		0.05
SB-706(P)	SB-706(P)-12	8/21/2002	12				0.05		B
SB-707(P)	SB-707(P)-2	8/21/2002	2				0.05		0.05
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.01	0.001	0.001	0.001	0.002	0.05
SB-707(P)	SB-707(P)-10	8/21/2002	10				0.05		
SB-708(P)	SB-708(P)-3	8/20/2002	3				0.05		0.05
SB-708(P)	SB-708(P)-10	8/20/2002	10				0.05		0.05
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.01	0.001	0.001	0.001	0.000761 J	0.05
SB-709(P)	SB-709(P)-3	8/21/2002	3				0.05		
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.01	0.001	0.001	0.000313 J	0.000601 J	0.05
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.01	0.001	0.001	0.001	0.000505	
SB-709(P)	SB-709(P)-10	8/21/2002	10				0.05		
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.01	0.001	0.001	0.001	0.00174 J	0.05
SB-710(P)	SB-710(P)-3	8/21/2002	3				0.05		
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.01	0.000273	0.000344	0.000976	0.00317	
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.01	0.001	0.000215 J	0.000574 J	0.00288	
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.01	0.001	0.001	0.001	0.00165 J	0.05
SB-711(P)	SB-711(P)-3	8/21/2002	3				0.05		
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.01	0.001	0.001	0.001	0.00172 J	0.05
SB-711(P)	SB-711(P)-10	8/21/2002	10				0.05		
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.01	0.001	0.00199	0.000751 J	0.0101	0.05
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.01	0.00049	B	0.000424	0.00595	
SB-712(P)	SB-712(P)-2	8/21/2002	2				0.05		

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.01	0.000191 J	0.00305	0.000976 J	0.00808	0.0763
SB-712(P)	SB-712(P)-10	8/21/2002	10				0.05		
SB-713(P)	SB-713(P)-2	8/21/2002	2				0.05		0.05
SB-713(P)	SB-713(P)-10	8/21/2002	10				0.05		0.05
SB-714(P)	SB-714(P)-2	8/21/2002	2				0.05		0.05
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5				2		72.7
SB-714(P)	SB-714(P)-10	8/21/2002	10	4	34.4		1		259
SB-714(P)	SB-714(P)-10	8/21/2002	10				5		344
SB-715(P)	SB-715(P)-3	8/21/2002	3				0.05 J-		0.05 J-
SB-715(P)	SB-715(P)-7	8/21/2002	7				0.05		0.21
SB-715(P)	SB-715(P)-11	8/21/2002	11				0.05		0.05
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.01	0.001	0.001	0.001	0.000244 J	0.05
SB-716(P)	SB-716(P)-3	8/20/2002	3				0.05		
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.01	0.001	0.001	0.001	0.000249 J	0.05
SB-716(P)	SB-716(P)-10	8/20/2002	10				0.05		
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.01	0.001	0.001	0.001	0.002	0.05
SB-717(P)	SB-717(P)-3	8/20/2002	3				0.05		
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.01	0.001	0.001	0.001	0.002	0.05
SB-717(P)	SB-717(P)-10	8/20/2002	10				0.05		
SB-718(P)	SB-718(P)-2	8/21/2002	2				0.05		0.05
SB-718(P)	SB-718(P)-10	8/21/2002	10				0.05		0.05
SB-719(P)	SB-719(P)-5	8/23/2002	5				0.05		0.05
SB-719(P)	SB-719(P)-12	8/23/2002	12				0.05 J-		0.05 J-
SB-720(P)	SB-720(P)-2	8/23/2002	2				0.05		0.0628 B
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5				5		104
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5				5		125
SB-721(P)	SB-721(P)-7'	3/31/2004	7	0.2	0.05		0.05		0.1
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2				0.05		0.05
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5				0.05 J/J		0.05 J/J
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-				0.05		0.05
SB-801(Q)	SB801(Q)-2	8/26/2002	2				0.05		0.05
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5				0.05		0.05
SB-801(Q)	SB801(Q)-0	8/26/2002	-				0.05		0.05
SB-802(Q)	SB802(Q)-2	8/26/2002	2				0.05		0.05
SB-802(Q)	SB802(Q)-9	8/26/2002	9				0.05		0.05
SB-802(Q)	SB802(Q)-0	8/26/2002	-				0.05		0.05
SB-803(Q)	SB803(Q)-2	8/26/2002	2				0.05		0.05
SB-803(Q)	SB803(Q)-9	8/26/2002	9				0.05		0.05
SB-803(Q)	SB803(Q)-0	8/26/2002	-				0.05		0.05

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene		Xylene, Isomers m & p	Xylenes	
			feet	mg/kg	mg/kg	mg/kg	mg/kg		mg/kg	mg/kg	
SB-804(Q)	SB-804(Q)-2	8/26/2002	2				0.05			0.05	
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5				0.05			0.05	
SB-804(Q)	SB-804(Q)-0	8/26/2002	-				0.05			0.05	
SB-805(Q)	SB-805(Q)-2	8/26/2002	2				0.05			1.1	
SB-805(Q)	SB-805(Q)-10	8/26/2002	10				0.05			0.05	
SB-805(Q)	SB-805(Q)-0	8/26/2002	-				0.05			0.05	
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2				0.05			0.05	
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8				0.05			0.05	
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11				0.05			0.05	
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-				0.05			0.05	
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7				1.82	J		57.9	J
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9				0.0856			0.778	
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-				0.05			0.05	
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2				0.05			0.05	
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5				0.05	J/J		0.05	J/J
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-				0.05			0.05	
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2				0.05			0.05	
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8				0.05			0.05	
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-				0.05			0.05	
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5				0.05			0.05	
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9				0.05	J/J		0.05	J/J
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9				0.05	J/J		0.05	J/J
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-				0.05			0.05	
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5				0.05			0.05	
SB-812(Q)	SB812(Q)-9	8/27/2002	9				0.05			0.05	
SB-812(Q)	SB812(Q)-0	8/27/2002	-				0.05			0.05	
SB-813(Q)	SB813(Q)-5	8/27/2002	5				0.05			0.05	
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5				0.05			0.05	
SB-813(Q)	SB813(Q)-0	8/27/2002	-				0.05	R		0.05	R
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5				0.05			0.05	
SB-814(Q)	SB814(Q)-9	8/27/2002	9				0.05			0.05	
SB-814(Q)	SB814(Q)-0	8/27/2002	-				0.05			0.05	
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5				0.05			0.05	
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5				0.05			0.05	
SB-815(Q)	SB815(Q)-0	8/27/2002	-				0.05			0.05	
SB-816(Q)	SB816(Q)-2	8/27/2002	2				0.05			0.05	
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5				0.05			0.05	
SB-816(Q)	SB816(Q)-0	8/27/2002	-				0.05			0.05	
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2				0.05			0.05	
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9				0.05			0.05	

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-				0.05		0.05
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4				0.05		0.05
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9				0.05		0.05
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-				0.05		0.05
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5				0.05		0.05 J/J
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11				0.05		0.05
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-				0.05		0.05
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2				0.05		0.05
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9				0.05		0.05
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9				2.66 J		31.7 J
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-				0.05		0.05
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.1	0.0267 J	0.1	0.1	0.0144 J	
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5				6.51 J		70.7 J
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5				1.57 J		22.3 J
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9				0.05		0.05
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-				0.05		0.05
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2				0.05		0.05
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2				0.05		0.05
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8				4.58 J		62.9 J
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10				0.05		0.05 J/J
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-				0.05		0.05
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2				0.05		0.05
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9				0.05		0.05
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-				0.05		0.05
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3				0.05		0.05
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9				0.05		0.05
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-				0.05		0.05
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2				0.05		0.05
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9				0.05 J/J		0.05 J/J
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-				0.05		0.05
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3				0.05		0.05
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9				0.05		0.05
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-				0.05		0.05
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2				0.0514		0.05
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5				0.05		0.05
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-				0.05		0.05
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2				0.05		0.05
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5				0.05 J/J		0.05 J/J
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-				0.05 J/J		0.05 J/J
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2				0.05		0.05

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2				0.05		0.05
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9				0.05		0.05
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-				0.05		0.05
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2				0.05		0.05
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5				0.05		0.05
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-				0.05		0.05
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4				0.05		0.05
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9				0.05		0.05
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-				0.05		0.05
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2				0.05		0.05
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9				0.05		0.05
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-				0.05		0.05
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2				0.05		0.05
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5				0.05		0.05
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-				0.05		0.05
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	0.2	0.0129 J		0.05		0.1
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	0.2	0.05		0.05		0.1
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	0.2	0.05		0.05		0.1
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	0.2	0.05		0.05		0.1
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.01	0.001		0.001		0.002
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.2	0.05		0.05		0.1
SB-900(S)	SB-900(S)-12	8/26/2002	12				5		16.4
SB-901(S)	SB-901 (S)-8	8/26/2002	8				0.05		0.05
SB-901(S)	SB-901 (S)-10	8/26/2002	10				0.05		0.05
SB-902(S)	SB-902 (S)-8	8/26/2002	8				0.05		0.05
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.01	0.0228		0.000512 J		0.029
SB-903(S)	SB-903 (S)-8	8/26/2002	8				0.05		0.05
SB-903(S)	SB-903 (S)-10	8/26/2002	10	1	0.446		0.25		0.62
SB-903(S)	SB-903 (S)-10	8/26/2002	10				0.5		0.5
SB-904(S)	SB-904 (S)-4	8/26/2002	4				0.05		0.05
SB-904(S)	SB-904 (S)-12	8/26/2002	12	1	0.637		1		3.63
SB-904(S)	SB-904 (S)-12	8/26/2002	12				0.25		2.03
SB-905(S)	SB-905 (S)-4	8/26/2002	4				0.05		0.05
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.01	0.001		0.00049 J		0.002
SB-905(S)	SB-905 (S)-12	8/26/2002	12				0.05		0.05
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.01	0.001		0.001		0.002
SB-906(S)	SB-906 (S)-12	8/27/2002	12	0.2	1.15		0.05		2.13
SB-908(S)	SB-908 (S)-4	8/27/2002	4	0.2	0.0662		0.05		0.385
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.01	0.001		0.001		0.000538 J

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-btyl ether	n-Propylbenzene	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.01	0.001		0.05		0.05
SB-908(S)	SB-908 (S)-10	8/27/2002	10				0.001		0.002
SB-909(S)	SB-909 (S)-4	8/27/2002	4				0.05		0.05
SB-909(S)	SB-909 (S)-10	8/27/2002	10				0.05		0.05
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.01	0.000257 J		0.001		0.000911 J
SB-910(S)	SB-910 (S)-10	8/27/2002	10				0.05		0.05
SB-911(S)	SB-911 (S)-8	8/27/2002	8				0.05		0.05
SB-911(S)	SB-911 (S)-10	8/27/2002	10				0.05		0.05
SB-912(S)	SB-912(S)-2	9/3/2003	2	0.2	0.05		0.05		0.1
SB-912(S)	SB-912(S)-7	9/3/2003	7	0.2	0.05		0.05		0.1
SB-913(S)	SB-913(S)-2	9/3/2003	2	0.2	0.05		0.05		0.1
SB-913(S)	SB-913(S)-7	9/3/2003	7	0.2	0.05		0.05		0.1
SB-914(S)	SB-914(S)-2	9/3/2003	2	0.2	0.05		0.05		0.1
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	0.2	0.05		0.05		0.1
TP-201(C)	TP201(C)6E	8/27/2002	-	0.01	0.001	0.001	0.001	0.002	
TP-202(C)	TP202(C)6W	8/27/2002	-	0.01	0.001	0.001	0.001	0.002	

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VOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-					
EX-2(S)	Ex-2/S-1	3/30/2004	-					
EX-3(S)	Ex-3/S-1	3/31/2004	-					
EX-4(S)	Ex-4/S-1	3/29/2004	-					
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5					
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5					
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5					
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5					
SB-005(A)	SB-005(A)-7	9/5/2003	7					
SB-006(A)	SB-006(A)-7'	3/31/2004	7					
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5					
SB-008(A)	SB-008(A)-2	8/26/2003	2					
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5					
SB-009(A)	SB-009(A)-2	8/27/2003	2					
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5					
SB-010(A)	SB-010(A)-2	8/27/2003	2					
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5					
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5					
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5					
SB-015(A)	SB-015(A)-7	9/10/2003	7					
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5					
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5					
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5					
SB-020(A)	SB-020(A)-4'	3/31/2004	4					
SB-020(A)	SB-020(A)-9'	3/31/2004	9					
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5					
SB-027(A)	SB-027 (A)-11	9/14/2005	11					
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5					
SB-100(C)	SB100(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-101(C)	SB101(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-101(C)	SB101(C)18	8/22/2002	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-102(C)	SB102(C)18	8/22/2002	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-103(C)	SB103(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-103(C)	SB103(C)18	8/22/2002	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-104(C)	SB104(C)4	8/22/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-104(C)	SB104(C)20	8/22/2002	20	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-200(C)	SB200(C)3	8/22/2002	3					
SB-200(C)	SB200(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-202(C)	SB202(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-253(C)	SB-253(C)-2	9/4/2003	2					
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5					
SB-254(C)	SB-254(C)-2	9/4/2003	2					
SB-254(C)	SB-254(C)-7	9/4/2003	7					
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5					
SB-255(C)	SB-255(C)-7	9/4/2003	7					
SB-256(C)	SB-256 (c) 6	3/31/2004	6	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5					
SB-304(D)	SB-304-D-2.0	8/19/2002	2					
SB-304(D)	SB-D-DUP-0819	8/19/2002	2					
SB-304(D)	SB-304-D-5.0	8/19/2002	5					
SB-305(D)	SB-305-D-2.0	8/19/2002	2					
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5					
SB-306(D)	SB-306-D-2.0	8/19/2002	2					
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5					
SB-307(D)	SB-307-D-2.0	8/19/2002	2					
SB-307(D)	SB-307-D-2.0	8/19/2002	2					
SB-309(D)	SB-309-D-2.0	8/19/2002	2					
SB-309(D)	SB-309-D-5.0	8/19/2002	5					
SB-309(D)	SB-309-D-5.0	8/19/2002	5					
SB-310(D)	SB-310-D-2.0	8/19/2002	2					
SB-310(D)	SB-310-D-5.0	8/19/2002	5					
SB-311(D)	SB-311-D-5.0	8/19/2002	5					
SB-311(D)	SB-311-D-5.0	8/19/2002	5					
SB-312(D)	SB-312-D-5.0	8/19/2002	5					
SB-312(D)	SB-312-D-5.0	8/19/2002	5					
SB-313(D)	SB-313-D-5.0	8/20/2002	5					
SB-313(D)	SB-313-D-18.0	8/20/2002	18					
SB-314(D)	SB-314-D-15.0	8/20/2002	15					

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15					
SB-315(D)	SB-315-D-2.0	8/20/2002	2					
SB-315(D)	SB-315-D-2.0	8/20/2002	2					
SB-315(D)	SB-315-D-15.0	8/20/2002	15					
SB-315(D)	SB-315-D-15.0	8/20/2002	15					
SB-316(D)	SB-316-D-2.0	8/20/2002	2					
SB-316(D)	SB-316-D-2.0	8/20/2002	2					
SB-316(D)	SB-316-D-5.0	8/20/2002	5					
SB-316(D)	SB-D-DUP-3	8/20/2002	5					
SB-316(D)	SB-316-D-10.0	8/20/2002	10					
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5					
SB-318(D)	SB-318-D-10.0	8/20/2002	10					
SB-318(D)	SB-318-D-15.0	8/20/2002	15					
SB-320(D)	SB-320(D)-2	9/10/2003	2					
SB-320(D)	SB-320(D)-5	9/10/2003	5					
SB-321(D)	SB-321(D)-2	9/9/2003	2					
SB-321(D)	SB-321(D)-5	9/9/2003	5					
SB-322(D)	SB-322(D)-2	9/10/2003	2					
SB-322(D)	SB-322(D)-5	9/10/2003	5					
SB-323(D)	SB-323(D)-7	9/10/2003	7					
SB-324(D)	SB-324(D)-2	9/10/2003	2					
SB-324(D)	SB-324(D)-5	9/10/2003	5					
SB-324(D)	SB-324(D)-10	9/10/2003	10					
SB-324(D)	SB-324(D)-15	9/10/2003	15					
SB-324(D)	SB-324(D)-DUP	9/10/2003	15					
SB-325(D)	SB-325(D)-2	9/10/2003	2					
SB-325(D)	SB-325(D)-DUP	9/10/2003	2					
SB-325(D)	SB-325(D)-5	9/10/2003	5					
SB-325(D)	SB-325(D)-10	9/10/2003	10					
SB-325(D)	SB-325(D)-15	9/10/2003	15					
SB-326(D)	SB-326(D)-2	9/9/2003	2					
SB-326(D)	SB-326(D)-5	9/9/2003	5					
SB-326(D)	SB-326(D)-10	9/9/2003	10					
SB-327(D)	SB-327(D)-2	9/10/2003	2					
SB-327(D)	SB-327(D)-5	9/10/2003	5					
SB-327(D)	SB-327(D)-10	9/10/2003	10					
SB-327(D)	SB-327(D)-15	9/10/2003	15					
SB-328(D)	SB-328(D)-2	9/10/2003	2					
SB-328(D)	SB-328(D)-5	9/10/2003	5					
SB-328(D)	SB-328(D)-10	9/10/2003	10					
SB-328(D)	SB-328(D)-15	9/10/2003	15					
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5					
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5					
SB-401(F)	SB-401(F)-20	8/23/2002	20					
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5					
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5					
SB-402(F)	SB-402(F)-20	8/23/2002	20					
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5					
SB-404(F)	SB-404(F)-20	8/22/2002	20					
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5					
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5					
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5					
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5					
SB-406(F)	SB-406(F)-8	8/22/2002	8					
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5					
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7					
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5					
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5					
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5					
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5					
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5					
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5					
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5					
SB-409(F)	SB-409(F)-5	8/22/2002	5					
SB-410(F)	SB-410(F)-2'	3/31/2004	2					
SB-410(F)	SB-410(F)-4'	3/31/2004	4					
SB-410(F)	SB-410(F)-9'	3/31/2004	9					
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10					
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6					
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10					
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10					
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10					
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11					
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10					
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10					
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10					
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10					
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10					
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10					
SB-600(N)	SB-600(N)-7	9/13/2002	7					
SB-601(N)	SB-601(N)-3	9/13/2002	3					
SB-601(N)	SB-601(N)-7	9/13/2002	7					

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7					
SB-602(N)	SB-602(N)-3	9/13/2002	3					
SB-602(N)	SB-602(N)-7	9/13/2002	7					
SB-602(N)	SB-602(N)-7	9/13/2002	7					
SB-603(N)	SB-603(N)-7	9/13/2002	7					
SB-603(N)	SB-603(N)-7	9/13/2002	7					
SB-604(N)	SB-604(N)-3	9/13/2002	3					
SB-604(N)	SB-604(N)-7	9/13/2002	7					
SB-605(N)	SB-605(N)-3	9/13/2002	3					
SB-605(N)	SB-605(N)-7	9/13/2002	7					
SB-606(N)	SB-606(N)-3	9/13/2002	3					
SB-606(N)	SB-606(N)-7	9/13/2002	7					
SB-607(N)	SB-607(N)-11	9/13/2002	11					
SB-608(N)	SB-608(N)-3	9/13/2002	3					
SB-608(N)	SB-608(N)-6	9/13/2002	6					
SB-609(N)	SB-609(N)-3	9/13/2002	3					
SB-609(N)	SB-609(N)-7	9/13/2002	7					
SB-612(N)	SB-612 (N)-7	9/12/2002	7					
SB-612(N)	SB-612 (N)-7	9/12/2002	7					
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5					
SB-614(N)	SB-614 (N)-7	9/12/2002	7					
SB-615(N)	SB-615 (N)-7	9/12/2002	7					
SB-616(N)	SB-616 (N)-7	9/12/2002	7					
SB-617(N)	SB-617 (N)-3	9/12/2002	3					
SB-617(N)	SB-617 (N)-3	9/12/2002	3					
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5					
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5					
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1 U	1 U	1 U	1 U	1 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7					
SB-619(N)	SB-619 (N)-7	9/12/2002	7					
SB-619(N)	SB-619 (N)-7	9/12/2002	7					
SB-619(N)	SB-619 (N)-11	9/12/2002	11					
SB-619(N)	SB-619 (N)-11	9/12/2002	11					
SB-620(N)	SB-620 (N)-3	9/12/2002	3					
SB-620(N)	SB-620 (N)-7	9/12/2002	7					
SB-620(N)	SB-620 (N)-7	9/12/2002	7					
SB-621(N)	SB-621 (N)-7	9/12/2002	7					
SB-622(N)	SB-622 (N)-2	9/12/2002	2					
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7					
SB-623(N)	SB-623 (N)-7	9/12/2002	7					
SB-623(N)	SB-623 (N)-7	9/12/2002	7					
SB-624(N)	SB-624 (N)-2	9/12/2002	2					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7					
SB-625(N)	SB-625 (N)-2	9/12/2002	2					
SB-625(N)	SB-625 (N)-7	9/12/2002	7					
SB-625(N)	SB-625 (N)-7	9/12/2002	7					
SB-625(N)	SB-625 (N)-10	9/12/2002	10					
SB-626(N)	SB-626 (N)-7	9/12/2002	7					
SB-626(N)	SB-626 (N)-7	9/12/2002	7					
SB-627(N)	SB-627(N)-2	8/28/2003	2					
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5					
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5					
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-700(P)	SB-700(P)-3	8/21/2002	3					
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5					
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-701(P)	SB-701(P)-2	8/20/2002	2					
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-701(P)	SB-701(P)-11	8/20/2002	11					
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-701(P)	SB-701(P)-12	8/20/2002	12					
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-702(P)	SB-702(P)-2	8/21/2002	2					
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-702(P)	SB-702(P)-11	8/21/2002	11					
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-703(P)	SB-703(P)-2	8/21/2002	2					
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-703(P)	SB-703(P)-10	8/21/2002	10					
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-704(P)	SB-704(P)-2	8/21/2002	2					
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-704(P)	SB-704(P)-11	8/21/2002	11					
SB-705(P)	SB-705(P)-3	8/20/2002	3					
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5					
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5					
SB-705(P)	SB-705(P)-12	8/20/2002	12					
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5					
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5					
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5					
SB-706(P)	SB-706(P)-12	8/21/2002	12					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2					
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-707(P)	SB-707(P)-10	8/21/2002	10					
SB-708(P)	SB-708(P)-3	8/20/2002	3					
SB-708(P)	SB-708(P)-10	8/20/2002	10					
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-709(P)	SB-709(P)-3	8/21/2002	3					
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10					
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-710(P)	SB-710(P)-3	8/21/2002	3					
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3					
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-711(P)	SB-711(P)-10	8/21/2002	10					
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2					
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-712(P)	SB-712(P)-10	8/21/2002	10					
SB-713(P)	SB-713(P)-2	8/21/2002	2					
SB-713(P)	SB-713(P)-10	8/21/2002	10					
SB-714(P)	SB-714(P)-2	8/21/2002	2					
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5					
SB-714(P)	SB-714(P)-10	8/21/2002	10					
SB-714(P)	SB-714(P)-10	8/21/2002	10					
SB-715(P)	SB-715(P)-3	8/21/2002	3					
SB-715(P)	SB-715(P)-7	8/21/2002	7					
SB-715(P)	SB-715(P)-11	8/21/2002	11					
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-716(P)	SB-716(P)-3	8/20/2002	3					
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-716(P)	SB-716(P)-10	8/20/2002	10					
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-717(P)	SB-717(P)-3	8/20/2002	3					
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-717(P)	SB-717(P)-10	8/20/2002	10					
SB-718(P)	SB-718(P)-2	8/21/2002	2					
SB-718(P)	SB-718(P)-10	8/21/2002	10					
SB-719(P)	SB-719(P)-5	8/23/2002	5					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-719(P)	SB-719(P)-12	8/23/2002	12					
SB-720(P)	SB-720(P)-2	8/23/2002	2					
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5					
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5					
SB-721(P)	SB-721(P)-7'	3/31/2004	7					
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2					
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5					
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-					
SB-801(Q)	SB801(Q)-2	8/26/2002	2					
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5					
SB-801(Q)	SB801(Q)-0	8/26/2002	-					
SB-802(Q)	SB802(Q)-2	8/26/2002	2					
SB-802(Q)	SB802(Q)-9	8/26/2002	9					
SB-802(Q)	SB802(Q)-0	8/26/2002	-					
SB-803(Q)	SB803(Q)-2	8/26/2002	2					
SB-803(Q)	SB803(Q)-9	8/26/2002	9					
SB-803(Q)	SB803(Q)-0	8/26/2002	-					
SB-804(Q)	SB-804(Q)-2	8/26/2002	2					
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5					
SB-804(Q)	SB-804(Q)-0	8/26/2002	-					
SB-805(Q)	SB-805(Q)-2	8/26/2002	2					
SB-805(Q)	SB-805(Q)-10	8/26/2002	10					
SB-805(Q)	SB-805(Q)-0	8/26/2002	-					
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2					
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8					
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11					
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-					
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7					
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9					
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-					
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2					
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5					
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-					
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2					
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8					
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-					
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5					
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9					
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9					
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-					
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5					
SB-812(Q)	SB812(Q)-9	8/27/2002	9					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-					
SB-813(Q)	SB813(Q)-5	8/27/2002	5					
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5					
SB-813(Q)	SB813(Q)-0	8/27/2002	-					
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5					
SB-814(Q)	SB814(Q)-9	8/27/2002	9					
SB-814(Q)	SB814(Q)-0	8/27/2002	-					
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5					
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5					
SB-815(Q)	SB815(Q)-0	8/27/2002	-					
SB-816(Q)	SB816(Q)-2	8/27/2002	2					
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5					
SB-816(Q)	SB816(Q)-0	8/27/2002	-					
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2					
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9					
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-					
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4					
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9					
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-					
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5					
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11					
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-					
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2					
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9					
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9					
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-					
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5					
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5					
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9					
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-					
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2					
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2					
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8					
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10					
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-					
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2					
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9					
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-					
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3					
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9					
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-					
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9					
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-					
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3					
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9					
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-					
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2					
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5					
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-					
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2					
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5					
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-					
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2					
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2					
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9					
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-					
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2					
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5					
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-					
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4					
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9					
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-					
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2					
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9					
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-					
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2					
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5					
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-					
SB-834(Q)	SB-834(Q)-2	9/5/2003	2					
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5					
SB-835(Q)	SB-835(Q)-2	9/5/2003	2					
SB-835(Q)	SB-835(Q)-7	9/5/2003	7					
SB-900(S)	SB-900(S)-4	8/26/2002	4					
SB-900(S)	SB-900(S)-12	8/26/2002	12					
SB-900(S)	SB-900(S)-12	8/26/2002	12					
SB-901(S)	SB-901 (S)-8	8/26/2002	8					
SB-901(S)	SB-901 (S)-10	8/26/2002	10					
SB-902(S)	SB-902 (S)-8	8/26/2002	8					
SB-902(S)	SB-902 (S)-12	8/26/2002	12					
SB-903(S)	SB-903 (S)-8	8/26/2002	8					
SB-903(S)	SB-903 (S)-10	8/26/2002	10					
SB-903(S)	SB-903 (S)-10	8/26/2002	10					
SB-904(S)	SB-904 (S)-4	8/26/2002	4					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12					
SB-904(S)	SB-904 (S)-12	8/26/2002	12					
SB-905(S)	SB-905 (S)-4	8/26/2002	4					
SB-905(S)	SB-905 (S)-12	8/26/2002	12					
SB-905(S)	SB-905 (S)-12	8/26/2002	12					
SB-906(S)	SB-906 (S)-4	8/27/2002	4					
SB-906(S)	SB-906 (S)-12	8/27/2002	12					
SB-908(S)	SB-908 (S)-4	8/27/2002	4					
SB-908(S)	SB-908 (S)-8	8/27/2002	8					
SB-908(S)	SB-908 (S)-10	8/27/2002	10					
SB-908(S)	SB-908 (S)-10	8/27/2002	10					
SB-909(S)	SB-909 (S)-4	8/27/2002	4					
SB-909(S)	SB-909 (S)-10	8/27/2002	10					
SB-910(S)	SB-910 (S)-4	8/27/2002	4					
SB-910(S)	SB-910 (S)-10	8/27/2002	10					
SB-911(S)	SB-911 (S)-8	8/27/2002	8					
SB-911(S)	SB-911 (S)-10	8/27/2002	10					
SB-912(S)	SB-912(S)-2	9/3/2003	2					
SB-912(S)	SB-912(S)-7	9/3/2003	7					
SB-913(S)	SB-913(S)-2	9/3/2003	2					
SB-913(S)	SB-913(S)-7	9/3/2003	7					
SB-914(S)	SB-914(S)-2	9/3/2003	2					
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5					
TP-201(C)	TP201(C)6E	8/27/2002	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

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Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-								
EX-2(S)	Ex-2/S-1	3/30/2004	-								
EX-3(S)	Ex-3/S-1	3/31/2004	-								
EX-4(S)	Ex-4/S-1	3/29/2004	-								
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5						0.1 U		0.05 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5						0.1 U		0.05 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5						0.1 U		0.05 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5						0.1 U		0.05 U
SB-005(A)	SB-005(A)-7	9/5/2003	7						0.1 U		0.05 U
SB-006(A)	SB-006(A)-7'	3/31/2004	7						186		0.5 U
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5						247		2.5 U
SB-008(A)	SB-008(A)-2	8/26/2003	2						0.1 U		0.05 U
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5						0.1 U		0.05 U
SB-009(A)	SB-009(A)-2	8/27/2003	2						0.0438 J		0.05 U
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5						2.47		0.5 U
SB-010(A)	SB-010(A)-2	8/27/2003	2						0.0105 J		0.05 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5						0.1 U		0.05 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5						0.1 U		0.05 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5						0.0151 J		0.05 U
SB-015(A)	SB-015(A)-7	9/10/2003	7						44.1		0.25 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5						0.0503 J		0.05 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5						0.1 U		0.05 U
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5						288		2.5 U
SB-020(A)	SB-020(A)-4'	3/31/2004	4						0.1 U		0.05 U
SB-020(A)	SB-020(A)-9'	3/31/2004	9						0.1 U		0.05 U
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5						50.4 J		0.305 U J
SB-027(A)	SB-027 (A)-11	9/14/2005	11						59.2 J		0.277 U J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5						0.0611 U J		0.0305 U J
SB-100(C)	SB100(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.179 B,J	0.005 U	0.001 U
SB-101(C)	SB101(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-101(C)	SB101(C)18	8/22/2002	18	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-102(C)	SB102(C)18	8/22/2002	18	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-103(C)	SB103(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-103(C)	SB103(C)18	8/22/2002	18	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-104(C)	SB104(C)4	8/22/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-104(C)	SB104(C)20	8/22/2002	20	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-200(C)	SB200(C)3	8/22/2002	3								
SB-200(C)	SB200(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U

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Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00329 B,J	0.005 U	0.001 U
SB-202(C)	SB202(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.0304 J,B	0.005 U	0.001 U

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Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000189 J	0.005 U	0.001 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000156 J	0.005 U	0.001 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000947 J	0.005 U	0.001 U
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.0021 J,B	0.005 U	0.001 U
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U B	0.005 U	0.001 U
SB-253(C)	SB-253(C)-2	9/4/2003	2						0.1 U		0.05 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5						0.1 U		0.05 U
SB-254(C)	SB-254(C)-2	9/4/2003	2						0.1 U		0.05 U
SB-254(C)	SB-254(C)-7	9/4/2003	7						0.1 U		0.05 U
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5						0.0136 J		0.05 U
SB-255(C)	SB-255(C)-7	9/4/2003	7						0.0355 J		0.05 U
SB-256(C)	SB-256 (c) 6	3/31/2004	6	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5						26.7		0.1 U
SB-304(D)	SB-304-D-2.0	8/19/2002	2						23.7		0.1 U
SB-304(D)	SB-D-DUP-0819	8/19/2002	2						8.6		0.05 U
SB-304(D)	SB-304-D-5.0	8/19/2002	5						30.1		0.1 U
SB-305(D)	SB-305-D-2.0	8/19/2002	2						23.1		0.1 U
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5						2.36		0.05 U
SB-306(D)	SB-306-D-2.0	8/19/2002	2						34.9		0.1 U
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5						0.547		0.1 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2						0.00031 U		0.001 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2						0.0118 J		0.05 U
SB-309(D)	SB-309-D-2.0	8/19/2002	2						6.8		0.05 U
SB-309(D)	SB-309-D-5.0	8/19/2002	5						0.000703 U		0.00105
SB-309(D)	SB-309-D-5.0	8/19/2002	5						0.119		0.05 U
SB-310(D)	SB-310-D-2.0	8/19/2002	2						13.7		0.05 U
SB-310(D)	SB-310-D-5.0	8/19/2002	5						41.3		0.25 U
SB-311(D)	SB-311-D-5.0	8/19/2002	5						0.000442 U		0.001 U
SB-311(D)	SB-311-D-5.0	8/19/2002	5						0.0485 J		0.05 U
SB-312(D)	SB-312-D-5.0	8/19/2002	5						0.000709 U		0.001 U
SB-312(D)	SB-312-D-5.0	8/19/2002	5						0.044 J		0.05 U
SB-313(D)	SB-313-D-5.0	8/20/2002	5						14.4		0.05 U
SB-313(D)	SB-313-D-18.0	8/20/2002	18						3.74		0.05 U
SB-314(D)	SB-314-D-15.0	8/20/2002	15						0.179		0.001 U

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Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15						0.313		0.05 U
SB-315(D)	SB-315-D-2.0	8/20/2002	2						0.00447		0.001 U
SB-315(D)	SB-315-D-2.0	8/20/2002	2						0.0318 J		0.05 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15						0.0151		0.001 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15						0.133		0.05 U
SB-316(D)	SB-316-D-2.0	8/20/2002	2						0.000663 U		0.001 U
SB-316(D)	SB-316-D-2.0	8/20/2002	2						0.1 U		0.05 U
SB-316(D)	SB-316-D-5.0	8/20/2002	5						95.2		0.25 U
SB-316(D)	SB-D-DUP-3	8/20/2002	5						44.5		0.1 U
SB-316(D)	SB-316-D-10.0	8/20/2002	10						174		0.5 U
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5						115		0.25 U
SB-318(D)	SB-318-D-10.0	8/20/2002	10						80.2		0.25 U
SB-318(D)	SB-318-D-15.0	8/20/2002	15						63.1		1 U
SB-320(D)	SB-320(D)-2	9/10/2003	2						0.0334		0.05 U
SB-320(D)	SB-320(D)-5	9/10/2003	5						0.1 U		0.05 U
SB-321(D)	SB-321(D)-2	9/9/2003	2						10.3		0.05 U
SB-321(D)	SB-321(D)-5	9/9/2003	5						39.5		0.25 U
SB-322(D)	SB-322(D)-2	9/10/2003	2						0.1 U		0.05 U
SB-322(D)	SB-322(D)-5	9/10/2003	5						0.1 U		0.05 U
SB-323(D)	SB-323(D)-7	9/10/2003	7						0.1 U		0.05 U
SB-324(D)	SB-324(D)-2	9/10/2003	2						0.0526		0.05 U
SB-324(D)	SB-324(D)-5	9/10/2003	5						0.0187		0.05 U
SB-324(D)	SB-324(D)-10	9/10/2003	10						18.2		0.1 U
SB-324(D)	SB-324(D)-15	9/10/2003	15						0.824		0.05 U
SB-324(D)	SB-324(D)-DUP	9/10/2003	15						7.29		0.05 U
SB-325(D)	SB-325(D)-2	9/10/2003	2						0.1 U		0.05 U
SB-325(D)	SB-325(D)-DUP	9/10/2003	2						0.1 U		0.05 U
SB-325(D)	SB-325(D)-5	9/10/2003	5						0.1 U		0.05 U
SB-325(D)	SB-325(D)-10	9/10/2003	10						0.1 U		0.05 U
SB-325(D)	SB-325(D)-15	9/10/2003	15						0.1 U		0.05 U
SB-326(D)	SB-326(D)-2	9/9/2003	2						0.123		0.05 U
SB-326(D)	SB-326(D)-5	9/9/2003	5						22.5		0.25 U
SB-326(D)	SB-326(D)-10	9/9/2003	10						26.6		0.25 U
SB-327(D)	SB-327(D)-2	9/10/2003	2						0.1 U		0.05 U
SB-327(D)	SB-327(D)-5	9/10/2003	5						0.1 U		0.05 U
SB-327(D)	SB-327(D)-10	9/10/2003	10						8.15		0.1 U
SB-327(D)	SB-327(D)-15	9/10/2003	15						40.8		0.25 U
SB-328(D)	SB-328(D)-2	9/10/2003	2						0.1 U		0.05 U
SB-328(D)	SB-328(D)-5	9/10/2003	5						0.0888 J		0.05 U
SB-328(D)	SB-328(D)-10	9/10/2003	10						77		0.5 U
SB-328(D)	SB-328(D)-15	9/10/2003	15						0.313		0.05 U
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5								
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5								
SB-401(F)	SB-401(F)-20	8/23/2002	20								
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5						0.00354		0.001 U
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5								
SB-402(F)	SB-402(F)-20	8/23/2002	20								
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5								
SB-404(F)	SB-404(F)-20	8/22/2002	20								
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5								
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5						21.7		0.05 U
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5								
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5								
SB-406(F)	SB-406(F)-8	8/22/2002	8								
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5								
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7								
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5						24 J		0.1 U J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5								
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5						0.000415 J		0.001 U
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5								
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5								
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5								
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5								
SB-409(F)	SB-409(F)-5	8/22/2002	5								
SB-410(F)	SB-410(F)-2'	3/31/2004	2						0.0186 J		0.05 U
SB-410(F)	SB-410(F)-4'	3/31/2004	4						0.1 U		0.05 U
SB-410(F)	SB-410(F)-9'	3/31/2004	9						0.1 U		0.05 U
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10								
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6								
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10								
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10								
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10								
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11								
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10								
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10								
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10								
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10								
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10								
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10								
SB-600(N)	SB-600(N)-7	9/13/2002	7								
SB-601(N)	SB-601(N)-3	9/13/2002	3						0.1 U		0.05 U
SB-601(N)	SB-601(N)-7	9/13/2002	7						252		5 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7								
SB-602(N)	SB-602(N)-3	9/13/2002	3								
SB-602(N)	SB-602(N)-7	9/13/2002	7						689		2.5 U
SB-602(N)	SB-602(N)-7	9/13/2002	7								
SB-603(N)	SB-603(N)-7	9/13/2002	7						151		2.5 U
SB-603(N)	SB-603(N)-7	9/13/2002	7								
SB-604(N)	SB-604(N)-3	9/13/2002	3								
SB-604(N)	SB-604(N)-7	9/13/2002	7						392		1 U
SB-605(N)	SB-605(N)-3	9/13/2002	3						20.3		0.05 U
SB-605(N)	SB-605(N)-7	9/13/2002	7						567		2.5 U
SB-606(N)	SB-606(N)-3	9/13/2002	3								
SB-606(N)	SB-606(N)-7	9/13/2002	7								
SB-607(N)	SB-607(N)-11	9/13/2002	11								
SB-608(N)	SB-608(N)-3	9/13/2002	3						0.1 U		0.05 U
SB-608(N)	SB-608(N)-6	9/13/2002	6						0.1 U		0.05 U
SB-609(N)	SB-609(N)-3	9/13/2002	3						0.1 U		0.05 U
SB-609(N)	SB-609(N)-7	9/13/2002	7						0.1 U		0.05 U
SB-612(N)	SB-612 (N)-7	9/12/2002	7						480		2.5 U
SB-612(N)	SB-612 (N)-7	9/12/2002	7								
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5								
SB-614(N)	SB-614 (N)-7	9/12/2002	7								
SB-615(N)	SB-615 (N)-7	9/12/2002	7								
SB-616(N)	SB-616 (N)-7	9/12/2002	7								
SB-617(N)	SB-617 (N)-3	9/12/2002	3						0.1 U		0.05 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3								
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5								
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5								
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1 U	1 U	1 U	1 U	1 U	150	5 U	1 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7					1.65 U			
SB-619(N)	SB-619 (N)-7	9/12/2002	7						0.1 U		0.05 U
SB-619(N)	SB-619 (N)-7	9/12/2002	7								
SB-619(N)	SB-619 (N)-11	9/12/2002	11						284		0.5 U
SB-619(N)	SB-619 (N)-11	9/12/2002	11								
SB-620(N)	SB-620 (N)-3	9/12/2002	3								
SB-620(N)	SB-620 (N)-7	9/12/2002	7						121		2.5 U
SB-620(N)	SB-620 (N)-7	9/12/2002	7								
SB-621(N)	SB-621 (N)-7	9/12/2002	7								
SB-622(N)	SB-622 (N)-2	9/12/2002	2								
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00294	0.005 U	0.001 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7								
SB-623(N)	SB-623 (N)-7	9/12/2002	7						102		0.5 U
SB-623(N)	SB-623 (N)-7	9/12/2002	7								
SB-624(N)	SB-624 (N)-2	9/12/2002	2								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	31.9	2.5 U	0.5 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7					3.3 U			
SB-625(N)	SB-625 (N)-2	9/12/2002	2								
SB-625(N)	SB-625 (N)-7	9/12/2002	7						0.1 U		0.05 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7								
SB-625(N)	SB-625 (N)-10	9/12/2002	10								
SB-626(N)	SB-626 (N)-7	9/12/2002	7						221		2.5 U
SB-626(N)	SB-626 (N)-7	9/12/2002	7								
SB-627(N)	SB-627(N)-2	8/28/2003	2						0.0194 J		0.05 U
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5						36.2		0.5 U
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5						152		0.5 U
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-700(P)	SB-700(P)-3	8/21/2002	3								
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	11.7	0.5 U	0.1 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5								
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000115 J	0.005 U	0.001 U
SB-701(P)	SB-701(P)-2	8/20/2002	2								
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000167 J	0.005 U	0.001 U
SB-701(P)	SB-701(P)-11	8/20/2002	11								
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.0134	0.005 U	0.001 U
SB-701(P)	SB-701(P)-12	8/20/2002	12								
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000218 J	0.005 U	0.001 U
SB-702(P)	SB-702(P)-2	8/21/2002	2								
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000208 J	0.005 U	0.001 U
SB-702(P)	SB-702(P)-11	8/21/2002	11								
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00328	0.005 U	0.001 U
SB-703(P)	SB-703(P)-2	8/21/2002	2								
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000256 J	0.005 U	0.001 U
SB-703(P)	SB-703(P)-10	8/21/2002	10								
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000203 J	0.005 U	0.001 U
SB-704(P)	SB-704(P)-2	8/21/2002	2								
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-704(P)	SB-704(P)-11	8/21/2002	11								
SB-705(P)	SB-705(P)-3	8/20/2002	3								
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5								
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5								
SB-705(P)	SB-705(P)-12	8/20/2002	12								
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5								
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00047 J	0.005 U	0.001 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5								
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5								
SB-706(P)	SB-706(P)-12	8/21/2002	12								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2								
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000109 J	0.005 U	0.001 U
SB-707(P)	SB-707(P)-10	8/21/2002	10								
SB-708(P)	SB-708(P)-3	8/20/2002	3								
SB-708(P)	SB-708(P)-10	8/20/2002	10								
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000222 J	0.005 U	0.001 U
SB-709(P)	SB-709(P)-3	8/21/2002	3								
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000205 U B	0.005 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000349 U B	0.005 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10								
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000215 J	0.005 U	0.001 U
SB-710(P)	SB-710(P)-3	8/21/2002	3								
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.0011	0.005 U	0.001 U
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000531 J	0.005 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000442 J	0.005 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3								
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000745 J	0.005 U	0.001 U
SB-711(P)	SB-711(P)-10	8/21/2002	10								
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00101 U B	0.005 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00208 U B	0.005 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2								
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000382 J	0.005 U	0.001 U
SB-712(P)	SB-712(P)-10	8/21/2002	10								
SB-713(P)	SB-713(P)-2	8/21/2002	2								
SB-713(P)	SB-713(P)-10	8/21/2002	10								
SB-714(P)	SB-714(P)-2	8/21/2002	2								
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5								
SB-714(P)	SB-714(P)-10	8/21/2002	10						262		1 U
SB-714(P)	SB-714(P)-10	8/21/2002	10								
SB-715(P)	SB-715(P)-3	8/21/2002	3								
SB-715(P)	SB-715(P)-7	8/21/2002	7								
SB-715(P)	SB-715(P)-11	8/21/2002	11								
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00018 J	0.005 U	0.001 U
SB-716(P)	SB-716(P)-3	8/20/2002	3								
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-716(P)	SB-716(P)-10	8/20/2002	10								
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-717(P)	SB-717(P)-3	8/20/2002	3								
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U
SB-717(P)	SB-717(P)-10	8/20/2002	10								
SB-718(P)	SB-718(P)-2	8/21/2002	2								
SB-718(P)	SB-718(P)-10	8/21/2002	10								
SB-719(P)	SB-719(P)-5	8/23/2002	5								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-719(P)	SB-719(P)-12	8/23/2002	12								
SB-720(P)	SB-720(P)-2	8/23/2002	2								
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5								
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5								
SB-721(P)	SB-721(P)-7'	3/31/2004	7						0.1 U		0.05 U
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2								
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5								
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-								
SB-801(Q)	SB801(Q)-2	8/26/2002	2								
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5								
SB-801(Q)	SB801(Q)-0	8/26/2002	-								
SB-802(Q)	SB802(Q)-2	8/26/2002	2								
SB-802(Q)	SB802(Q)-9	8/26/2002	9								
SB-802(Q)	SB802(Q)-0	8/26/2002	-								
SB-803(Q)	SB803(Q)-2	8/26/2002	2								
SB-803(Q)	SB803(Q)-9	8/26/2002	9								
SB-803(Q)	SB803(Q)-0	8/26/2002	-								
SB-804(Q)	SB-804(Q)-2	8/26/2002	2								
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5								
SB-804(Q)	SB-804(Q)-0	8/26/2002	-								
SB-805(Q)	SB-805(Q)-2	8/26/2002	2								
SB-805(Q)	SB-805(Q)-10	8/26/2002	10								
SB-805(Q)	SB-805(Q)-0	8/26/2002	-								
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2								
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8								
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11								
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-								
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7								
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9								
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-								
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2								
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5								
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-								
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2								
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8								
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-								
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5								
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9								
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9								
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-								
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5								
SB-812(Q)	SB812(Q)-9	8/27/2002	9								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-								
SB-813(Q)	SB813(Q)-5	8/27/2002	5								
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5								
SB-813(Q)	SB813(Q)-0	8/27/2002	-								
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5								
SB-814(Q)	SB814(Q)-9	8/27/2002	9								
SB-814(Q)	SB814(Q)-0	8/27/2002	-								
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5								
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5								
SB-815(Q)	SB815(Q)-0	8/27/2002	-								
SB-816(Q)	SB816(Q)-2	8/27/2002	2								
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5								
SB-816(Q)	SB816(Q)-0	8/27/2002	-								
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2								
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9								
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-								
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4								
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9								
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-								
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5								
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11								
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-								
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2								
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9								
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9								
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-								
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0144 J	0.5 U	0.1 U
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5								
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5								
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9								
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-								
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2								
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2								
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8								
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10								
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-								
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2								
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9								
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-								
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3								
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9								
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-								
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9								
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-								
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3								
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9								
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-								
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2								
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5								
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-								
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2								
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5								
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-								
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2								
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2								
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9								
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-								
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2								
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5								
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-								
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4								
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9								
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-								
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2								
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9								
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-								
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2								
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5								
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-								
SB-834(Q)	SB-834(Q)-2	9/5/2003	2						0.0334 J		0.05 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5						0.0166 J		0.05 U
SB-835(Q)	SB-835(Q)-2	9/5/2003	2						0.1 U		0.05 U
SB-835(Q)	SB-835(Q)-7	9/5/2003	7						0.1 U		0.05 U
SB-900(S)	SB-900(S)-4	8/26/2002	4						0.001 U		0.001 U
SB-900(S)	SB-900(S)-12	8/26/2002	12						0.1 U		0.05 U
SB-900(S)	SB-900(S)-12	8/26/2002	12								
SB-901(S)	SB-901 (S)-8	8/26/2002	8								
SB-901(S)	SB-901 (S)-10	8/26/2002	10								
SB-902(S)	SB-902 (S)-8	8/26/2002	8								
SB-902(S)	SB-902 (S)-12	8/26/2002	12						0.0122		0.001 U
SB-903(S)	SB-903 (S)-8	8/26/2002	8								
SB-903(S)	SB-903 (S)-10	8/26/2002	10						6.02		0.25 U
SB-903(S)	SB-903 (S)-10	8/26/2002	10								
SB-904(S)	SB-904 (S)-4	8/26/2002	4								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12						5.37		0.25 U
SB-904(S)	SB-904 (S)-12	8/26/2002	12								
SB-905(S)	SB-905 (S)-4	8/26/2002	4								
SB-905(S)	SB-905 (S)-12	8/26/2002	12						0.000895 J		0.001 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12								
SB-906(S)	SB-906 (S)-4	8/27/2002	4						0.001 U		0.001 U
SB-906(S)	SB-906 (S)-12	8/27/2002	12						14		0.05 U
SB-908(S)	SB-908 (S)-4	8/27/2002	4						1.1		0.05 U
SB-908(S)	SB-908 (S)-8	8/27/2002	8						0.001 U		0.001 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10						0.001 U		0.001 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10								
SB-909(S)	SB-909 (S)-4	8/27/2002	4								
SB-909(S)	SB-909 (S)-10	8/27/2002	10								
SB-910(S)	SB-910 (S)-4	8/27/2002	4						0.001 U		0.001 U
SB-910(S)	SB-910 (S)-10	8/27/2002	10								
SB-911(S)	SB-911 (S)-8	8/27/2002	8								
SB-911(S)	SB-911 (S)-10	8/27/2002	10								
SB-912(S)	SB-912(S)-2	9/3/2003	2						0.1 U		0.05 U
SB-912(S)	SB-912(S)-7	9/3/2003	7						0.1 U		0.05 U
SB-913(S)	SB-913(S)-2	9/3/2003	2						0.1 U		0.05 U
SB-913(S)	SB-913(S)-7	9/3/2003	7						0.1 U		0.05 U
SB-914(S)	SB-914(S)-2	9/3/2003	2						0.1 U		0.05 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5						0.1 U		0.05 U
TP-201(C)	TP201(C)6E	8/27/2002	-	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000304 J	0.005 U	0.001 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.000247 J	0.005 U	0.001 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-								
EX-2(S)	Ex-2/S-1	3/30/2004	-								
EX-3(S)	Ex-3/S-1	3/31/2004	-								
EX-4(S)	Ex-4/S-1	3/29/2004	-								
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5		0.05 U		0.05 U				
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5		0.05 U		0.05 U				
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5		0.05 U		0.05 U				
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5		0.05 U		0.05 U				
SB-005(A)	SB-005(A)-7	9/5/2003	7		0.05 U		0.05 U				
SB-006(A)	SB-006(A)-7'	3/31/2004	7		0.5 U		31.1				
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5		2.5 U		58				
SB-008(A)	SB-008(A)-2	8/26/2003	2		0.05 U		0.05 U				
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5		0.05 U		0.05 U				
SB-009(A)	SB-009(A)-2	8/27/2003	2		0.05 U		0.0109 J				
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5		0.5 U		2.62				
SB-010(A)	SB-010(A)-2	8/27/2003	2		0.05 U		0.05 U				
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5		0.05 U		0.05 U				
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5		0.05 U		0.05 U				
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5		0.05 U		0.05 U				
SB-015(A)	SB-015(A)-7	9/10/2003	7		0.25 U		11.6				
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5		0.05 U		0.05 U				
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5		0.05 U		0.05 U				
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5		2.5 U		46.3				
SB-020(A)	SB-020(A)-4'	3/31/2004	4		0.05 U		0.05 U				
SB-020(A)	SB-020(A)-9'	3/31/2004	9		0.05 U		0.05 U				
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5		0.305 U J		6.76 J				
SB-027(A)	SB-027 (A)-11	9/14/2005	11		0.277 U J		16.9 J				
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5		0.0305 U J		0.0305 U J				
SB-100(C)	SB100(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.001 U	0.001 U	0.001 U	0.0705	0.001 U	0.001 U	0.000222 J	0.001 U
SB-101(C)	SB101(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.000333 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-101(C)	SB101(C)18	8/22/2002	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-102(C)	SB102(C)18	8/22/2002	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-103(C)	SB103(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-103(C)	SB103(C)18	8/22/2002	18	0.001 U	0.001 U	0.001 U	0.00018 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-104(C)	SB104(C)4	8/22/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-104(C)	SB104(C)20	8/22/2002	20	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-200(C)	SB200(C)3	8/22/2002	3								
SB-200(C)	SB200(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.001 U	0.001 U	0.001 U	0.00273	0.001 U	0.001 U	0.001 U	0.001 U
SB-202(C)	SB202(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.001 U	0.000159 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.000173 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.001 U	0.001 U	0.001 U	0.000157 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.000158 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.001 U	0.000159 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.000184 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.001 U	0.000336 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.000377 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.001 U	0.001 U	0.001 U	0.000448 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.001 U	0.001 U	0.001 U	0.000611 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.001 U	0.001 U	0.001 U	0.00042 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-253(C)	SB-253(C)-2	9/4/2003	2		0.05 U		0.05 U				
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5		0.05 U		0.05 U				
SB-254(C)	SB-254(C)-2	9/4/2003	2		0.05 U		0.05 U				
SB-254(C)	SB-254(C)-7	9/4/2003	7		0.05 U		0.05 U				
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5		0.05 U		0.05 U				
SB-255(C)	SB-255(C)-7	9/4/2003	7		0.05 U		0.02 J				
SB-256(C)	SB-256 (c) 6	3/31/2004	6	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5		0.1 U		9.38				
SB-304(D)	SB-304-D-2.0	8/19/2002	2		0.1 U		8.97				
SB-304(D)	SB-D-DUP-0819	8/19/2002	2		0.05 U		3.99				
SB-304(D)	SB-304-D-5.0	8/19/2002	5		0.1 U		7.28				
SB-305(D)	SB-305-D-2.0	8/19/2002	2		0.1 U		5.69				
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5		0.05 U		0.569				
SB-306(D)	SB-306-D-2.0	8/19/2002	2		0.1 U		17				
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5		0.1 U		4.51				
SB-307(D)	SB-307-D-2.0	8/19/2002	2		0.001 U		0.001 U				
SB-307(D)	SB-307-D-2.0	8/19/2002	2		0.05 U		0.05 U				
SB-309(D)	SB-309-D-2.0	8/19/2002	2		0.05 U		2.25				
SB-309(D)	SB-309-D-5.0	8/19/2002	5		0.001 U		0.00051 J				
SB-309(D)	SB-309-D-5.0	8/19/2002	5		0.05 U		0.0453 J				
SB-310(D)	SB-310-D-2.0	8/19/2002	2		0.05 U		3.83				
SB-310(D)	SB-310-D-5.0	8/19/2002	5		0.25 U		49.6				
SB-311(D)	SB-311-D-5.0	8/19/2002	5		0.001 U		0.001 U				
SB-311(D)	SB-311-D-5.0	8/19/2002	5		0.05 U		0.0216 J				
SB-312(D)	SB-312-D-5.0	8/19/2002	5		0.001 U		0.000451 J				
SB-312(D)	SB-312-D-5.0	8/19/2002	5		0.05 U		0.0451 J				
SB-313(D)	SB-313-D-5.0	8/20/2002	5		0.05 U		5.18				
SB-313(D)	SB-313-D-18.0	8/20/2002	18		0.05 U		0.517				
SB-314(D)	SB-314-D-15.0	8/20/2002	15		0.000315 J		0.065				

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15		0.05 U		0.108				
SB-315(D)	SB-315-D-2.0	8/20/2002	2		0.000304 J		0.0182				
SB-315(D)	SB-315-D-2.0	8/20/2002	2		0.05 U		0.045 J				
SB-315(D)	SB-315-D-15.0	8/20/2002	15		0.001 U		0.00119				
SB-315(D)	SB-315-D-15.0	8/20/2002	15		0.05 U		0.0143 J				
SB-316(D)	SB-316-D-2.0	8/20/2002	2		0.001 U		0.000275 U				
SB-316(D)	SB-316-D-2.0	8/20/2002	2		0.05 U		0.05 U				
SB-316(D)	SB-316-D-5.0	8/20/2002	5		0.25 U		31.6				
SB-316(D)	SB-D-DUP-3	8/20/2002	5		0.1 U		13.5				
SB-316(D)	SB-316-D-10.0	8/20/2002	10		0.5 U		55.1				
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5		0.25 U		36.4				
SB-318(D)	SB-318-D-10.0	8/20/2002	10		0.25 U		25				
SB-318(D)	SB-318-D-15.0	8/20/2002	15		1 U		18.6				
SB-320(D)	SB-320(D)-2	9/10/2003	2		0.05 U		0.05 U				
SB-320(D)	SB-320(D)-5	9/10/2003	5		0.05 U		0.05 U				
SB-321(D)	SB-321(D)-2	9/9/2003	2		0.05 U		0.187				
SB-321(D)	SB-321(D)-5	9/9/2003	5		0.25 U		22.2				
SB-322(D)	SB-322(D)-2	9/10/2003	2		0.05 U		0.05 U				
SB-322(D)	SB-322(D)-5	9/10/2003	5		0.05 U		0.05 U				
SB-323(D)	SB-323(D)-7	9/10/2003	7		0.05 U		0.05 U				
SB-324(D)	SB-324(D)-2	9/10/2003	2		0.05 U		0.05 U				
SB-324(D)	SB-324(D)-5	9/10/2003	5		0.05 U		0.05 U				
SB-324(D)	SB-324(D)-10	9/10/2003	10		0.1 U		0.41				
SB-324(D)	SB-324(D)-15	9/10/2003	15		0.05 U		0.146				
SB-324(D)	SB-324(D)-DUP	9/10/2003	15		0.05 U		0.86				
SB-325(D)	SB-325(D)-2	9/10/2003	2		0.05 U		0.05 U				
SB-325(D)	SB-325(D)-DUP	9/10/2003	2		0.05 U		0.05 U				
SB-325(D)	SB-325(D)-5	9/10/2003	5		0.05 U		0.05 U				
SB-325(D)	SB-325(D)-10	9/10/2003	10		0.05 U		0.05 U				
SB-325(D)	SB-325(D)-15	9/10/2003	15		0.05 U		0.05 U				
SB-326(D)	SB-326(D)-2	9/9/2003	2		0.05 U		0.0537				
SB-326(D)	SB-326(D)-5	9/9/2003	5		0.25 U		8.02				
SB-326(D)	SB-326(D)-10	9/9/2003	10		0.25 U		9.67				
SB-327(D)	SB-327(D)-2	9/10/2003	2		0.05 U		0.05 U				
SB-327(D)	SB-327(D)-5	9/10/2003	5		0.05 U		0.05 U				
SB-327(D)	SB-327(D)-10	9/10/2003	10		0.1 U		1.19				
SB-327(D)	SB-327(D)-15	9/10/2003	15		0.25 U		5.59				
SB-328(D)	SB-328(D)-2	9/10/2003	2		0.05 U		0.05 U				
SB-328(D)	SB-328(D)-5	9/10/2003	5		0.05 U		0.0407 J				
SB-328(D)	SB-328(D)-10	9/10/2003	10		0.5 U		13.1				
SB-328(D)	SB-328(D)-15	9/10/2003	15		0.05 U		0.109				
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5								

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Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5								
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5								
SB-401(F)	SB-401(F)-20	8/23/2002	20								
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5		0.001 U		0.00112				
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5								
SB-402(F)	SB-402(F)-20	8/23/2002	20								
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5								
SB-404(F)	SB-404(F)-20	8/22/2002	20								
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5								
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5		0.05 U		5.58				
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5								
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5								
SB-406(F)	SB-406(F)-8	8/22/2002	8								
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5								
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7								
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5		0.1 U J		9.48 J				
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5								
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5		0.001 U		0.000208 J				
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5								
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5								
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5								
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5								
SB-409(F)	SB-409(F)-5	8/22/2002	5								
SB-410(F)	SB-410(F)-2'	3/31/2004	2		0.05 U		0.05 U				
SB-410(F)	SB-410(F)-4'	3/31/2004	4		0.05 U		0.05 U				
SB-410(F)	SB-410(F)-9'	3/31/2004	9		0.05 U		0.05 U				
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10								
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6								
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10								
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10								
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10								
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11								
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10								
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10								
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10								
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10								
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10								
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10								
SB-600(N)	SB-600(N)-7	9/13/2002	7								
SB-601(N)	SB-601(N)-3	9/13/2002	3		0.05 U		0.05 U				
SB-601(N)	SB-601(N)-7	9/13/2002	7		5 U		65.9				

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Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7								
SB-602(N)	SB-602(N)-3	9/13/2002	3								
SB-602(N)	SB-602(N)-7	9/13/2002	7		2.5 U		189				
SB-602(N)	SB-602(N)-7	9/13/2002	7								
SB-603(N)	SB-603(N)-7	9/13/2002	7		2.5 U		40.3				
SB-603(N)	SB-603(N)-7	9/13/2002	7								
SB-604(N)	SB-604(N)-3	9/13/2002	3								
SB-604(N)	SB-604(N)-7	9/13/2002	7		1 U		118				
SB-605(N)	SB-605(N)-3	9/13/2002	3		0.05 U		4.02				
SB-605(N)	SB-605(N)-7	9/13/2002	7		2.5 U		137				
SB-606(N)	SB-606(N)-3	9/13/2002	3								
SB-606(N)	SB-606(N)-7	9/13/2002	7								
SB-607(N)	SB-607(N)-11	9/13/2002	11								
SB-608(N)	SB-608(N)-3	9/13/2002	3		0.05 U		0.05 U				
SB-608(N)	SB-608(N)-6	9/13/2002	6		0.05 U		0.05 U				
SB-609(N)	SB-609(N)-3	9/13/2002	3		0.05 U		0.05 U				
SB-609(N)	SB-609(N)-7	9/13/2002	7		0.05 U		0.05 U				
SB-612(N)	SB-612 (N)-7	9/12/2002	7		2.5 U		148				
SB-612(N)	SB-612 (N)-7	9/12/2002	7								
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5								
SB-614(N)	SB-614 (N)-7	9/12/2002	7								
SB-615(N)	SB-615 (N)-7	9/12/2002	7								
SB-616(N)	SB-616 (N)-7	9/12/2002	7								
SB-617(N)	SB-617 (N)-3	9/12/2002	3		0.05 U		0.05 U				
SB-617(N)	SB-617 (N)-3	9/12/2002	3								
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5								
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5								
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1 U	1 U	1 U	47.3	1 U	1 U	1 U	1 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7	5 U				5 U		5 U	
SB-619(N)	SB-619 (N)-7	9/12/2002	7		0.05 U		0.05 U				
SB-619(N)	SB-619 (N)-7	9/12/2002	7								
SB-619(N)	SB-619 (N)-11	9/12/2002	11		0.5 U		58.3				
SB-619(N)	SB-619 (N)-11	9/12/2002	11								
SB-620(N)	SB-620 (N)-3	9/12/2002	3								
SB-620(N)	SB-620 (N)-7	9/12/2002	7		2.5 U		39.3				
SB-620(N)	SB-620 (N)-7	9/12/2002	7								
SB-621(N)	SB-621 (N)-7	9/12/2002	7								
SB-622(N)	SB-622 (N)-2	9/12/2002	2								
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7								
SB-623(N)	SB-623 (N)-7	9/12/2002	7		0.5 U		4.24				
SB-623(N)	SB-623 (N)-7	9/12/2002	7								
SB-624(N)	SB-624 (N)-2	9/12/2002	2								

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Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.5 U	0.5 U	0.5 U	10.5	0.5 U	0.5 U	0.5 U	0.5 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7	10 U				10 U		10 U	
SB-625(N)	SB-625 (N)-2	9/12/2002	2								
SB-625(N)	SB-625 (N)-7	9/12/2002	7		0.05 U		0.05 U				
SB-625(N)	SB-625 (N)-7	9/12/2002	7								
SB-625(N)	SB-625 (N)-10	9/12/2002	10								
SB-626(N)	SB-626 (N)-7	9/12/2002	7		2.5 U		66.4				
SB-626(N)	SB-626 (N)-7	9/12/2002	7								
SB-627(N)	SB-627(N)-2	8/28/2003	2		0.05 U		0.05 U				
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5		0.5 U		11.6				
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5		0.5 U		36.8				
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-700(P)	SB-700(P)-3	8/21/2002	3								
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.1 U	0.1 U	0.1 U	3.97	0.1 U	0.1 U	0.1 U	0.1 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5								
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-701(P)	SB-701(P)-2	8/20/2002	2								
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-701(P)	SB-701(P)-11	8/20/2002	11								
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.001 U	0.001 U	0.001 U	0.000329 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-701(P)	SB-701(P)-12	8/20/2002	12								
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-702(P)	SB-702(P)-2	8/21/2002	2								
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-702(P)	SB-702(P)-11	8/21/2002	11								
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.00158	0.001 U	0.001 U	0.001 U	0.001 U
SB-703(P)	SB-703(P)-2	8/21/2002	2								
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.000163 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-703(P)	SB-703(P)-10	8/21/2002	10								
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-704(P)	SB-704(P)-2	8/21/2002	2								
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-704(P)	SB-704(P)-11	8/21/2002	11								
SB-705(P)	SB-705(P)-3	8/20/2002	3								
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5								
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5								
SB-705(P)	SB-705(P)-12	8/20/2002	12								
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5								
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.001 U	0.000157 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5								
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5								
SB-706(P)	SB-706(P)-12	8/21/2002	12								

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Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2								
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-707(P)	SB-707(P)-10	8/21/2002	10								
SB-708(P)	SB-708(P)-3	8/20/2002	3								
SB-708(P)	SB-708(P)-10	8/20/2002	10								
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-709(P)	SB-709(P)-3	8/21/2002	3								
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10								
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-710(P)	SB-710(P)-3	8/21/2002	3								
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.001 U	0.000387	0.001 U	0.001 U	0.001 U	0.001 U
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.001 U	0.00023 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.000168 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3								
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.000257 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-711(P)	SB-711(P)-10	8/21/2002	10								
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.000392 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.000936	0.001 U	0.001 U	0.001 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2								
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.000244 J	0.001 U	0.001 U	0.001 U	0.001 U
SB-712(P)	SB-712(P)-10	8/21/2002	10								
SB-713(P)	SB-713(P)-2	8/21/2002	2								
SB-713(P)	SB-713(P)-10	8/21/2002	10								
SB-714(P)	SB-714(P)-2	8/21/2002	2								
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5								
SB-714(P)	SB-714(P)-10	8/21/2002	10		1 U		83.5				
SB-714(P)	SB-714(P)-10	8/21/2002	10								
SB-715(P)	SB-715(P)-3	8/21/2002	3								
SB-715(P)	SB-715(P)-7	8/21/2002	7								
SB-715(P)	SB-715(P)-11	8/21/2002	11								
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-716(P)	SB-716(P)-3	8/20/2002	3								
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-716(P)	SB-716(P)-10	8/20/2002	10								
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-717(P)	SB-717(P)-3	8/20/2002	3								
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
SB-717(P)	SB-717(P)-10	8/20/2002	10								
SB-718(P)	SB-718(P)-2	8/21/2002	2								
SB-718(P)	SB-718(P)-10	8/21/2002	10								
SB-719(P)	SB-719(P)-5	8/23/2002	5								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-719(P)	SB-719(P)-12	8/23/2002	12								
SB-720(P)	SB-720(P)-2	8/23/2002	2								
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5								
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5								
SB-721(P)	SB-721(P)-7'	3/31/2004	7		0.05 U		0.05 U				
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2								
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5								
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-								
SB-801(Q)	SB801(Q)-2	8/26/2002	2								
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5								
SB-801(Q)	SB801(Q)-0	8/26/2002	-								
SB-802(Q)	SB802(Q)-2	8/26/2002	2								
SB-802(Q)	SB802(Q)-9	8/26/2002	9								
SB-802(Q)	SB802(Q)-0	8/26/2002	-								
SB-803(Q)	SB803(Q)-2	8/26/2002	2								
SB-803(Q)	SB803(Q)-9	8/26/2002	9								
SB-803(Q)	SB803(Q)-0	8/26/2002	-								
SB-804(Q)	SB-804(Q)-2	8/26/2002	2								
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5								
SB-804(Q)	SB-804(Q)-0	8/26/2002	-								
SB-805(Q)	SB-805(Q)-2	8/26/2002	2								
SB-805(Q)	SB-805(Q)-10	8/26/2002	10								
SB-805(Q)	SB-805(Q)-0	8/26/2002	-								
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2								
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8								
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11								
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-								
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7								
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9								
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-								
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2								
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5								
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-								
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2								
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8								
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-								
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5								
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9								
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9								
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-								
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5								
SB-812(Q)	SB812(Q)-9	8/27/2002	9								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-								
SB-813(Q)	SB813(Q)-5	8/27/2002	5								
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5								
SB-813(Q)	SB813(Q)-0	8/27/2002	-								
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5								
SB-814(Q)	SB814(Q)-9	8/27/2002	9								
SB-814(Q)	SB814(Q)-0	8/27/2002	-								
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5								
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5								
SB-815(Q)	SB815(Q)-0	8/27/2002	-								
SB-816(Q)	SB816(Q)-2	8/27/2002	2								
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5								
SB-816(Q)	SB816(Q)-0	8/27/2002	-								
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2								
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9								
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-								
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4								
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9								
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-								
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5								
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11								
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-								
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2								
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9								
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9								
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-								
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5								
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5								
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9								
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-								
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2								
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2								
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8								
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10								
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-								
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2								
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9								
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-								
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3								
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9								
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-								
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9								
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-								
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3								
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9								
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-								
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2								
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5								
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-								
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2								
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5								
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-								
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2								
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2								
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9								
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-								
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2								
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5								
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-								
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4								
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9								
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-								
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2								
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9								
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-								
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2								
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5								
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-								
SB-834(Q)	SB-834(Q)-2	9/5/2003	2		0.05 U		0.0108 J				
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5		0.05 U		0.05 U				
SB-835(Q)	SB-835(Q)-2	9/5/2003	2		0.05 U		0.05 U				
SB-835(Q)	SB-835(Q)-7	9/5/2003	7		0.05 U		0.05 U				
SB-900(S)	SB-900(S)-4	8/26/2002	4		0.001 U		0.001 U				
SB-900(S)	SB-900(S)-12	8/26/2002	12		0.05 U		0.05 U				
SB-900(S)	SB-900(S)-12	8/26/2002	12								
SB-901(S)	SB-901 (S)-8	8/26/2002	8								
SB-901(S)	SB-901 (S)-10	8/26/2002	10								
SB-902(S)	SB-902 (S)-8	8/26/2002	8								
SB-902(S)	SB-902 (S)-12	8/26/2002	12		0.001 U		0.001 U				
SB-903(S)	SB-903 (S)-8	8/26/2002	8								
SB-903(S)	SB-903 (S)-10	8/26/2002	10		0.25 U		1.5				
SB-903(S)	SB-903 (S)-10	8/26/2002	10								
SB-904(S)	SB-904 (S)-4	8/26/2002	4								

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Locator ID	Sample ID	Sample Date	Depth	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12		0.25 U		1.3				
SB-904(S)	SB-904 (S)-12	8/26/2002	12								
SB-905(S)	SB-905 (S)-4	8/26/2002	4								
SB-905(S)	SB-905 (S)-12	8/26/2002	12		0.001 U		0.000184 J				
SB-905(S)	SB-905 (S)-12	8/26/2002	12								
SB-906(S)	SB-906 (S)-4	8/27/2002	4		0.001 U		0.001 U				
SB-906(S)	SB-906 (S)-12	8/27/2002	12		0.05 U		3.91				
SB-908(S)	SB-908 (S)-4	8/27/2002	4		0.05 U		0.456				
SB-908(S)	SB-908 (S)-8	8/27/2002	8		0.001 U		0.000215 J				
SB-908(S)	SB-908 (S)-10	8/27/2002	10		0.001 U		0.000164 J				
SB-908(S)	SB-908 (S)-10	8/27/2002	10								
SB-909(S)	SB-909 (S)-4	8/27/2002	4								
SB-909(S)	SB-909 (S)-10	8/27/2002	10								
SB-910(S)	SB-910 (S)-4	8/27/2002	4		0.001 U		0.000375 J				
SB-910(S)	SB-910 (S)-10	8/27/2002	10								
SB-911(S)	SB-911 (S)-8	8/27/2002	8								
SB-911(S)	SB-911 (S)-10	8/27/2002	10								
SB-912(S)	SB-912(S)-2	9/3/2003	2		0.05 U		0.05 U				
SB-912(S)	SB-912(S)-7	9/3/2003	7		0.05 U		0.05 U				
SB-913(S)	SB-913(S)-2	9/3/2003	2		0.05 U		0.05 U				
SB-913(S)	SB-913(S)-7	9/3/2003	7		0.05 U		0.05 U				
SB-914(S)	SB-914(S)-2	9/3/2003	2		0.05 U		0.05 U				
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5		0.05 U		0.05 U				
TP-201(C)	TP201(C)6E	8/27/2002	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-								
EX-2(S)	Ex-2/S-1	3/30/2004	-								
EX-3(S)	Ex-3/S-1	3/31/2004	-								
EX-4(S)	Ex-4/S-1	3/29/2004	-								
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5								
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5								
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5								
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5								
SB-005(A)	SB-005(A)-7	9/5/2003	7								
SB-006(A)	SB-006(A)-7'	3/31/2004	7								
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5								
SB-008(A)	SB-008(A)-2	8/26/2003	2								
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5								
SB-009(A)	SB-009(A)-2	8/27/2003	2								
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5								
SB-010(A)	SB-010(A)-2	8/27/2003	2								
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5								
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5								
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5								
SB-015(A)	SB-015(A)-7	9/10/2003	7								
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5								
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5								
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5								
SB-020(A)	SB-020(A)-4'	3/31/2004	4								
SB-020(A)	SB-020(A)-9'	3/31/2004	9								
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5								
SB-027(A)	SB-027 (A)-11	9/14/2005	11								
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5								
SB-100(C)	SB100(C)3	8/22/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.145	0.05 U	0.001 U	0.02 U			0.001 U	0.00258
SB-101(C)	SB101(C)3	8/22/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-101(C)	SB101(C)18	8/22/2002	18	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-102(C)	SB102(C)18	8/22/2002	18	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-103(C)	SB103(C)3	8/22/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-103(C)	SB103(C)18	8/22/2002	18	0.0579	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-104(C)	SB104(C)4	8/22/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-104(C)	SB104(C)20	8/22/2002	20	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-200(C)	SB200(C)3	8/22/2002	3				0.02 U			0.001 U	
SB-200(C)	SB200(C)3	8/22/2002	3	0.05 U	0.05 U	0.001 U					0.001 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.00336
SB-202(C)	SB202(C)3	8/22/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.0164

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-253(C)	SB-253(C)-2	9/4/2003	2								
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5								
SB-254(C)	SB-254(C)-2	9/4/2003	2								
SB-254(C)	SB-254(C)-7	9/4/2003	7								
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5								
SB-255(C)	SB-255(C)-7	9/4/2003	7								
SB-256(C)	SB-256 (c) 6	3/31/2004	6	1 U		0.1 U	1 U			0.1 U	0.2 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5								
SB-304(D)	SB-304-D-2.0	8/19/2002	2								
SB-304(D)	SB-D-DUP-0819	8/19/2002	2								
SB-304(D)	SB-304-D-5.0	8/19/2002	5								
SB-305(D)	SB-305-D-2.0	8/19/2002	2								
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5								
SB-306(D)	SB-306-D-2.0	8/19/2002	2								
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5								
SB-307(D)	SB-307-D-2.0	8/19/2002	2								
SB-307(D)	SB-307-D-2.0	8/19/2002	2								
SB-309(D)	SB-309-D-2.0	8/19/2002	2								
SB-309(D)	SB-309-D-5.0	8/19/2002	5								
SB-309(D)	SB-309-D-5.0	8/19/2002	5								
SB-310(D)	SB-310-D-2.0	8/19/2002	2								
SB-310(D)	SB-310-D-5.0	8/19/2002	5								
SB-311(D)	SB-311-D-5.0	8/19/2002	5								
SB-311(D)	SB-311-D-5.0	8/19/2002	5								
SB-312(D)	SB-312-D-5.0	8/19/2002	5								
SB-312(D)	SB-312-D-5.0	8/19/2002	5								
SB-313(D)	SB-313-D-5.0	8/20/2002	5								
SB-313(D)	SB-313-D-18.0	8/20/2002	18								
SB-314(D)	SB-314-D-15.0	8/20/2002	15								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15								
SB-315(D)	SB-315-D-2.0	8/20/2002	2								
SB-315(D)	SB-315-D-2.0	8/20/2002	2								
SB-315(D)	SB-315-D-15.0	8/20/2002	15								
SB-315(D)	SB-315-D-15.0	8/20/2002	15								
SB-316(D)	SB-316-D-2.0	8/20/2002	2								
SB-316(D)	SB-316-D-2.0	8/20/2002	2								
SB-316(D)	SB-316-D-5.0	8/20/2002	5								
SB-316(D)	SB-D-DUP-3	8/20/2002	5								
SB-316(D)	SB-316-D-10.0	8/20/2002	10								
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5								
SB-318(D)	SB-318-D-10.0	8/20/2002	10								
SB-318(D)	SB-318-D-15.0	8/20/2002	15								
SB-320(D)	SB-320(D)-2	9/10/2003	2								
SB-320(D)	SB-320(D)-5	9/10/2003	5								
SB-321(D)	SB-321(D)-2	9/9/2003	2								
SB-321(D)	SB-321(D)-5	9/9/2003	5								
SB-322(D)	SB-322(D)-2	9/10/2003	2								
SB-322(D)	SB-322(D)-5	9/10/2003	5								
SB-323(D)	SB-323(D)-7	9/10/2003	7								
SB-324(D)	SB-324(D)-2	9/10/2003	2								
SB-324(D)	SB-324(D)-5	9/10/2003	5								
SB-324(D)	SB-324(D)-10	9/10/2003	10								
SB-324(D)	SB-324(D)-15	9/10/2003	15								
SB-324(D)	SB-324(D)-DUP	9/10/2003	15								
SB-325(D)	SB-325(D)-2	9/10/2003	2								
SB-325(D)	SB-325(D)-DUP	9/10/2003	2								
SB-325(D)	SB-325(D)-5	9/10/2003	5								
SB-325(D)	SB-325(D)-10	9/10/2003	10								
SB-325(D)	SB-325(D)-15	9/10/2003	15								
SB-326(D)	SB-326(D)-2	9/9/2003	2								
SB-326(D)	SB-326(D)-5	9/9/2003	5								
SB-326(D)	SB-326(D)-10	9/9/2003	10								
SB-327(D)	SB-327(D)-2	9/10/2003	2								
SB-327(D)	SB-327(D)-5	9/10/2003	5								
SB-327(D)	SB-327(D)-10	9/10/2003	10								
SB-327(D)	SB-327(D)-15	9/10/2003	15								
SB-328(D)	SB-328(D)-2	9/10/2003	2								
SB-328(D)	SB-328(D)-5	9/10/2003	5								
SB-328(D)	SB-328(D)-10	9/10/2003	10								
SB-328(D)	SB-328(D)-15	9/10/2003	15								
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5								
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5								
SB-401(F)	SB-401(F)-20	8/23/2002	20								
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5								
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5								
SB-402(F)	SB-402(F)-20	8/23/2002	20								
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5								
SB-404(F)	SB-404(F)-20	8/22/2002	20								
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5								
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5								
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5								
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5								
SB-406(F)	SB-406(F)-8	8/22/2002	8								
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5								
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7								
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5								
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5								
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5								
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5								
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5								
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5								
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5								
SB-409(F)	SB-409(F)-5	8/22/2002	5								
SB-410(F)	SB-410(F)-2'	3/31/2004	2								
SB-410(F)	SB-410(F)-4'	3/31/2004	4								
SB-410(F)	SB-410(F)-9'	3/31/2004	9								
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10								
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6								
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10								
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10								
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10								
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11								
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10								
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10								
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10								
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10								
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10								
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10								
SB-600(N)	SB-600(N)-7	9/13/2002	7								
SB-601(N)	SB-601(N)-3	9/13/2002	3								
SB-601(N)	SB-601(N)-7	9/13/2002	7								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7								
SB-602(N)	SB-602(N)-3	9/13/2002	3								
SB-602(N)	SB-602(N)-7	9/13/2002	7								
SB-602(N)	SB-602(N)-7	9/13/2002	7								
SB-603(N)	SB-603(N)-7	9/13/2002	7								
SB-603(N)	SB-603(N)-7	9/13/2002	7								
SB-604(N)	SB-604(N)-3	9/13/2002	3								
SB-604(N)	SB-604(N)-7	9/13/2002	7								
SB-605(N)	SB-605(N)-3	9/13/2002	3								
SB-605(N)	SB-605(N)-7	9/13/2002	7								
SB-606(N)	SB-606(N)-3	9/13/2002	3								
SB-606(N)	SB-606(N)-7	9/13/2002	7								
SB-607(N)	SB-607(N)-11	9/13/2002	11								
SB-608(N)	SB-608(N)-3	9/13/2002	3								
SB-608(N)	SB-608(N)-6	9/13/2002	6								
SB-609(N)	SB-609(N)-3	9/13/2002	3								
SB-609(N)	SB-609(N)-7	9/13/2002	7								
SB-612(N)	SB-612 (N)-7	9/12/2002	7								
SB-612(N)	SB-612 (N)-7	9/12/2002	7								
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5								
SB-614(N)	SB-614 (N)-7	9/12/2002	7								
SB-615(N)	SB-615 (N)-7	9/12/2002	7								
SB-616(N)	SB-616 (N)-7	9/12/2002	7								
SB-617(N)	SB-617 (N)-3	9/12/2002	3								
SB-617(N)	SB-617 (N)-3	9/12/2002	3								
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5								
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5								
SB-618(N)	SB-618 (N)-7	9/12/2002	7	10 U	1 U	1 U	10 U	1.65 U	1.65 U	1 U	2 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7								
SB-619(N)	SB-619 (N)-7	9/12/2002	7								
SB-619(N)	SB-619 (N)-7	9/12/2002	7								
SB-619(N)	SB-619 (N)-11	9/12/2002	11								
SB-619(N)	SB-619 (N)-11	9/12/2002	11								
SB-620(N)	SB-620 (N)-3	9/12/2002	3								
SB-620(N)	SB-620 (N)-7	9/12/2002	7								
SB-620(N)	SB-620 (N)-7	9/12/2002	7								
SB-621(N)	SB-621 (N)-7	9/12/2002	7								
SB-622(N)	SB-622 (N)-2	9/12/2002	2								
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7								
SB-623(N)	SB-623 (N)-7	9/12/2002	7								
SB-623(N)	SB-623 (N)-7	9/12/2002	7								
SB-624(N)	SB-624 (N)-2	9/12/2002	2								

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VOCs IN SOIL

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	5 U	0.5 U	0.5 U	5 U	3.3 U	3.3 U	0.5 U	4.34
SB-624(N)	SB-624 (N)-7	9/12/2002	7								
SB-625(N)	SB-625 (N)-2	9/12/2002	2								
SB-625(N)	SB-625 (N)-7	9/12/2002	7								
SB-625(N)	SB-625 (N)-7	9/12/2002	7								
SB-625(N)	SB-625 (N)-10	9/12/2002	10								
SB-626(N)	SB-626 (N)-7	9/12/2002	7								
SB-626(N)	SB-626 (N)-7	9/12/2002	7								
SB-627(N)	SB-627(N)-2	8/28/2003	2								
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5								
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5								
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-700(P)	SB-700(P)-3	8/21/2002	3								
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	1 U	5 U	0.1 U	1 U			0.1 U	1.42
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5								
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-701(P)	SB-701(P)-2	8/20/2002	2								
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-701(P)	SB-701(P)-11	8/20/2002	11								
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-701(P)	SB-701(P)-12	8/20/2002	12								
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-702(P)	SB-702(P)-2	8/21/2002	2								
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-702(P)	SB-702(P)-11	8/21/2002	11								
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.00247
SB-703(P)	SB-703(P)-2	8/21/2002	2								
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-703(P)	SB-703(P)-10	8/21/2002	10								
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-704(P)	SB-704(P)-2	8/21/2002	2								
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-704(P)	SB-704(P)-11	8/21/2002	11								
SB-705(P)	SB-705(P)-3	8/20/2002	3								
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5								
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5								
SB-705(P)	SB-705(P)-12	8/20/2002	12								
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5								
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.0325 J	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5								
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5								
SB-706(P)	SB-706(P)-12	8/21/2002	12								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2								
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-707(P)	SB-707(P)-10	8/21/2002	10								
SB-708(P)	SB-708(P)-3	8/20/2002	3								
SB-708(P)	SB-708(P)-10	8/20/2002	10								
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.00937
SB-709(P)	SB-709(P)-3	8/21/2002	3								
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10								
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-710(P)	SB-710(P)-3	8/21/2002	3								
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.0444 J	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3								
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-711(P)	SB-711(P)-10	8/21/2002	10								
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2								
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-712(P)	SB-712(P)-10	8/21/2002	10								
SB-713(P)	SB-713(P)-2	8/21/2002	2								
SB-713(P)	SB-713(P)-10	8/21/2002	10								
SB-714(P)	SB-714(P)-2	8/21/2002	2								
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5								
SB-714(P)	SB-714(P)-10	8/21/2002	10								
SB-714(P)	SB-714(P)-10	8/21/2002	10								
SB-715(P)	SB-715(P)-3	8/21/2002	3								
SB-715(P)	SB-715(P)-7	8/21/2002	7								
SB-715(P)	SB-715(P)-11	8/21/2002	11								
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-716(P)	SB-716(P)-3	8/20/2002	3								
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-716(P)	SB-716(P)-10	8/20/2002	10								
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-717(P)	SB-717(P)-3	8/20/2002	3								
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
SB-717(P)	SB-717(P)-10	8/20/2002	10								
SB-718(P)	SB-718(P)-2	8/21/2002	2								
SB-718(P)	SB-718(P)-10	8/21/2002	10								
SB-719(P)	SB-719(P)-5	8/23/2002	5								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-719(P)	SB-719(P)-12	8/23/2002	12								
SB-720(P)	SB-720(P)-2	8/23/2002	2								
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5								
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5								
SB-721(P)	SB-721(P)-7'	3/31/2004	7								
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2								
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5								
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-								
SB-801(Q)	SB801(Q)-2	8/26/2002	2								
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5								
SB-801(Q)	SB801(Q)-0	8/26/2002	-								
SB-802(Q)	SB802(Q)-2	8/26/2002	2								
SB-802(Q)	SB802(Q)-9	8/26/2002	9								
SB-802(Q)	SB802(Q)-0	8/26/2002	-								
SB-803(Q)	SB803(Q)-2	8/26/2002	2								
SB-803(Q)	SB803(Q)-9	8/26/2002	9								
SB-803(Q)	SB803(Q)-0	8/26/2002	-								
SB-804(Q)	SB-804(Q)-2	8/26/2002	2								
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5								
SB-804(Q)	SB-804(Q)-0	8/26/2002	-								
SB-805(Q)	SB-805(Q)-2	8/26/2002	2								
SB-805(Q)	SB-805(Q)-10	8/26/2002	10								
SB-805(Q)	SB-805(Q)-0	8/26/2002	-								
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2								
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8								
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11								
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-								
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7								
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9								
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-								
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2								
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5								
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-								
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2								
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8								
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-								
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5								
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9								
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9								
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-								
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5								
SB-812(Q)	SB812(Q)-9	8/27/2002	9								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-								
SB-813(Q)	SB813(Q)-5	8/27/2002	5								
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5								
SB-813(Q)	SB813(Q)-0	8/27/2002	-								
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5								
SB-814(Q)	SB814(Q)-9	8/27/2002	9								
SB-814(Q)	SB814(Q)-0	8/27/2002	-								
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5								
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5								
SB-815(Q)	SB815(Q)-0	8/27/2002	-								
SB-816(Q)	SB816(Q)-2	8/27/2002	2								
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5								
SB-816(Q)	SB816(Q)-0	8/27/2002	-								
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2								
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9								
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-								
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4								
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9								
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-								
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5								
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11								
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-								
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2								
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9								
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9								
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-								
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	1 U	0.1 U	0.1 U	1 U			0.1 U	0.2 U
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5								
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5								
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9								
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-								
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2								
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2								
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8								
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10								
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-								
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2								
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9								
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-								
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3								
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9								
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-								
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9								
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-								
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3								
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9								
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-								
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2								
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5								
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-								
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2								
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5								
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-								
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2								
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2								
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9								
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-								
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2								
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5								
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-								
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4								
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9								
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-								
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2								
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9								
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-								
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2								
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5								
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-								
SB-834(Q)	SB-834(Q)-2	9/5/2003	2								
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5								
SB-835(Q)	SB-835(Q)-2	9/5/2003	2								
SB-835(Q)	SB-835(Q)-7	9/5/2003	7								
SB-900(S)	SB-900(S)-4	8/26/2002	4								
SB-900(S)	SB-900(S)-12	8/26/2002	12								
SB-900(S)	SB-900(S)-12	8/26/2002	12								
SB-901(S)	SB-901 (S)-8	8/26/2002	8								
SB-901(S)	SB-901 (S)-10	8/26/2002	10								
SB-902(S)	SB-902 (S)-8	8/26/2002	8								
SB-902(S)	SB-902 (S)-12	8/26/2002	12								
SB-903(S)	SB-903 (S)-8	8/26/2002	8								
SB-903(S)	SB-903 (S)-10	8/26/2002	10								
SB-903(S)	SB-903 (S)-10	8/26/2002	10								
SB-904(S)	SB-904 (S)-4	8/26/2002	4								

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Locator ID	Sample ID	Sample Date	Depth	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12								
SB-904(S)	SB-904 (S)-12	8/26/2002	12								
SB-905(S)	SB-905 (S)-4	8/26/2002	4								
SB-905(S)	SB-905 (S)-12	8/26/2002	12								
SB-905(S)	SB-905 (S)-12	8/26/2002	12								
SB-906(S)	SB-906 (S)-4	8/27/2002	4								
SB-906(S)	SB-906 (S)-12	8/27/2002	12								
SB-908(S)	SB-908 (S)-4	8/27/2002	4								
SB-908(S)	SB-908 (S)-8	8/27/2002	8								
SB-908(S)	SB-908 (S)-10	8/27/2002	10								
SB-908(S)	SB-908 (S)-10	8/27/2002	10								
SB-909(S)	SB-909 (S)-4	8/27/2002	4								
SB-909(S)	SB-909 (S)-10	8/27/2002	10								
SB-910(S)	SB-910 (S)-4	8/27/2002	4								
SB-910(S)	SB-910 (S)-10	8/27/2002	10								
SB-911(S)	SB-911 (S)-8	8/27/2002	8								
SB-911(S)	SB-911 (S)-10	8/27/2002	10								
SB-912(S)	SB-912(S)-2	9/3/2003	2								
SB-912(S)	SB-912(S)-7	9/3/2003	7								
SB-913(S)	SB-913(S)-2	9/3/2003	2								
SB-913(S)	SB-913(S)-7	9/3/2003	7								
SB-914(S)	SB-914(S)-2	9/3/2003	2								
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5								
TP-201(C)	TP201(C)6E	8/27/2002	-	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.05 U	0.05 U	0.001 U	0.02 U			0.001 U	0.001 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-			0.05 U					
EX-2(S)	Ex-2/S-1	3/30/2004	-			0.0493					
EX-3(S)	Ex-3/S-1	3/31/2004	-			0.05 U					
EX-4(S)	Ex-4/S-1	3/29/2004	-			0.05 U					
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5			0.05 U					
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5			0.05 U					
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5			0.05 U					
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5			0.05 U					
SB-005(A)	SB-005(A)-7	9/5/2003	7			0.05 U					
SB-006(A)	SB-006(A)-7'	3/31/2004	7			4.39					
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5			1.19 J					
SB-008(A)	SB-008(A)-2	8/26/2003	2			0.05 U					
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5			0.05 U					
SB-009(A)	SB-009(A)-2	8/27/2003	2			0.05 U					
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5			0.309 J					
SB-010(A)	SB-010(A)-2	8/27/2003	2			0.05 U					
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5			0.05 U					
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5			0.05 U					
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5			0.05 U					
SB-015(A)	SB-015(A)-7	9/10/2003	7			0.116					
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5			0.05 U					
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5			0.05 U					
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5			2.5 U					
SB-020(A)	SB-020(A)-4'	3/31/2004	4			0.04 U					
SB-020(A)	SB-020(A)-9'	3/31/2004	9			0.04 U					
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5			0.926 J					
SB-027(A)	SB-027 (A)-11	9/14/2005	11			0.477 J					
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5			0.0244 U J					
SB-100(C)	SB100(C)3	8/22/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.01 U	0.543 C	0.00306				0.001 U	0.001 U
SB-101(C)	SB101(C)3	8/22/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-101(C)	SB101(C)18	8/22/2002	18	0.01 U	0.00791 J,C	0.001 U				0.001 U	0.001 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.01 U	0.00613 J,C	0.001 U				0.001 U	0.001 U
SB-102(C)	SB102(C)18	8/22/2002	18	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-103(C)	SB103(C)3	8/22/2002	3	0.01 U	0.0102 J,C	0.001 U				0.001 U	0.001 U
SB-103(C)	SB103(C)18	8/22/2002	18	0.01 U	0.285 C	0.000291 J				0.001 U	0.001 U
SB-104(C)	SB104(C)4	8/22/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-104(C)	SB104(C)20	8/22/2002	20	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-200(C)	SB200(C)3	8/22/2002	3								
SB-200(C)	SB200(C)3	8/22/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.01 U	0.00889 J,C	0.001 U				0.001 U	0.001 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.01 U	0.0477 C	0.001 U				0.001 U	0.001 U
SB-202(C)	SB202(C)3	8/22/2002	3	0.01 U	0.00483 J,C	0.001 U				0.001 U	0.001 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.01 U	0.00504 J,C	0.001 U				0.001 U	0.001 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.01 U	0.0059 J,C	0.001 U				0.001 U	0.001 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.01 U	0.00462 J,C	0.001 U				0.001 U	0.001 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.01 U	0.0114 J	0.001 U				0.001 U	0.001 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-253(C)	SB-253(C)-2	9/4/2003	2			0.05 U					
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5			0.05 U					
SB-254(C)	SB-254(C)-2	9/4/2003	2			0.05 U					
SB-254(C)	SB-254(C)-7	9/4/2003	7			0.05 U					
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5			0.05 U					
SB-255(C)	SB-255(C)-7	9/4/2003	7			0.0122 J					
SB-256(C)	SB-256 (c) 6	3/31/2004	6	0.5 U	2.5 U	0.1 U				0.1 U	0.1 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5			0.1 U					
SB-304(D)	SB-304-D-2.0	8/19/2002	2			0.1 U					
SB-304(D)	SB-D-DUP-0819	8/19/2002	2			0.05 U					
SB-304(D)	SB-304-D-5.0	8/19/2002	5			0.1 U					
SB-305(D)	SB-305-D-2.0	8/19/2002	2			0.1 U					
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5			0.05 U					
SB-306(D)	SB-306-D-2.0	8/19/2002	2			0.0263 J					
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5			0.265					
SB-307(D)	SB-307-D-2.0	8/19/2002	2			0.001 U					
SB-307(D)	SB-307-D-2.0	8/19/2002	2			0.05 U					
SB-309(D)	SB-309-D-2.0	8/19/2002	2			0.0526					
SB-309(D)	SB-309-D-5.0	8/19/2002	5			0.000283 J					
SB-309(D)	SB-309-D-5.0	8/19/2002	5			0.05 U					
SB-310(D)	SB-310-D-2.0	8/19/2002	2			0.05 U					
SB-310(D)	SB-310-D-5.0	8/19/2002	5			0.226 J					
SB-311(D)	SB-311-D-5.0	8/19/2002	5			0.001 U					
SB-311(D)	SB-311-D-5.0	8/19/2002	5			0.05 U					
SB-312(D)	SB-312-D-5.0	8/19/2002	5			0.001 U					
SB-312(D)	SB-312-D-5.0	8/19/2002	5			0.05 U					
SB-313(D)	SB-313-D-5.0	8/20/2002	5			0.0376 J					
SB-313(D)	SB-313-D-18.0	8/20/2002	18			0.05 U					
SB-314(D)	SB-314-D-15.0	8/20/2002	15			0.00516					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15			0.05 U					
SB-315(D)	SB-315-D-2.0	8/20/2002	2			0.00371					
SB-315(D)	SB-315-D-2.0	8/20/2002	2			0.05 U					
SB-315(D)	SB-315-D-15.0	8/20/2002	15			0.000165 J					
SB-315(D)	SB-315-D-15.0	8/20/2002	15			0.05 U					
SB-316(D)	SB-316-D-2.0	8/20/2002	2			0.00149					
SB-316(D)	SB-316-D-2.0	8/20/2002	2			0.05 U					
SB-316(D)	SB-316-D-5.0	8/20/2002	5			0.114 J					
SB-316(D)	SB-D-DUP-3	8/20/2002	5			0.168					
SB-316(D)	SB-316-D-10.0	8/20/2002	10			1.52					
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5			0.37					
SB-318(D)	SB-318-D-10.0	8/20/2002	10			0.25 U					
SB-318(D)	SB-318-D-15.0	8/20/2002	15			1 U					
SB-320(D)	SB-320(D)-2	9/10/2003	2			0.05 U					
SB-320(D)	SB-320(D)-5	9/10/2003	5			0.05 U					
SB-321(D)	SB-321(D)-2	9/9/2003	2			0.0456 J					
SB-321(D)	SB-321(D)-5	9/9/2003	5			0.563					
SB-322(D)	SB-322(D)-2	9/10/2003	2			0.05 U					
SB-322(D)	SB-322(D)-5	9/10/2003	5			0.05 U					
SB-323(D)	SB-323(D)-7	9/10/2003	7			0.05 U					
SB-324(D)	SB-324(D)-2	9/10/2003	2			0.05 U					
SB-324(D)	SB-324(D)-5	9/10/2003	5			0.05 U					
SB-324(D)	SB-324(D)-10	9/10/2003	10			0.141					
SB-324(D)	SB-324(D)-15	9/10/2003	15			0.0328					
SB-324(D)	SB-324(D)-DUP	9/10/2003	15			0.156					
SB-325(D)	SB-325(D)-2	9/10/2003	2			0.05 U					
SB-325(D)	SB-325(D)-DUP	9/10/2003	2			0.05 U					
SB-325(D)	SB-325(D)-5	9/10/2003	5			0.05 U					
SB-325(D)	SB-325(D)-10	9/10/2003	10			0.05 U					
SB-325(D)	SB-325(D)-15	9/10/2003	15			0.05 U					
SB-326(D)	SB-326(D)-2	9/9/2003	2			0.0689					
SB-326(D)	SB-326(D)-5	9/9/2003	5			0.599					
SB-326(D)	SB-326(D)-10	9/9/2003	10			0.639					
SB-327(D)	SB-327(D)-2	9/10/2003	2			0.05 U					
SB-327(D)	SB-327(D)-5	9/10/2003	5			0.05 U					
SB-327(D)	SB-327(D)-10	9/10/2003	10			0.1 U					
SB-327(D)	SB-327(D)-15	9/10/2003	15			0.25 U					
SB-328(D)	SB-328(D)-2	9/10/2003	2			0.05 U					
SB-328(D)	SB-328(D)-5	9/10/2003	5			0.05 U					
SB-328(D)	SB-328(D)-10	9/10/2003	10			0.472 J					
SB-328(D)	SB-328(D)-15	9/10/2003	15			0.0414					
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5			0.05 U					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5			0.05 U J					
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5			0.05 U J					
SB-401(F)	SB-401(F)-20	8/23/2002	20			0.05 U					
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5			0.05 U					
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5			0.00116					
SB-402(F)	SB-402(F)-20	8/23/2002	20			0.05 U J					
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5			0.05 U					
SB-404(F)	SB-404(F)-20	8/22/2002	20			0.05 U					
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5			0.05 U					
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5			0.05 U					
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5			0.1 U J					
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5			0.05 U					
SB-406(F)	SB-406(F)-8	8/22/2002	8			0.05 U J					
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5			0.05 U					
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7			1 U					
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5			0.1 U J					
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5			1 U J					
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5			0.001 U					
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5			0.05 U					
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5			0.05 U					
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5			0.05 U J					
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5			0.05 U					
SB-409(F)	SB-409(F)-5	8/22/2002	5			0.05 U					
SB-410(F)	SB-410(F)-2'	3/31/2004	2			0.04 U					
SB-410(F)	SB-410(F)-4'	3/31/2004	4			0.04 U					
SB-410(F)	SB-410(F)-9'	3/31/2004	9			0.04 U					
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10			0.05 U					
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6			0.03 J					
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10			6.11					
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10			0.0763 J					
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10			0.5 U					
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11			0.05 U J					
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10			0.101 J					
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10			2.14					
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10			2.61					
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10			3.12					
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10			0.05 U J					
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10			1.43 J					
SB-600(N)	SB-600(N)-7	9/13/2002	7			5 U					
SB-601(N)	SB-601(N)-3	9/13/2002	3			0.05 U					
SB-601(N)	SB-601(N)-7	9/13/2002	7			5 U					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7			10 U					
SB-602(N)	SB-602(N)-3	9/13/2002	3			0.05 U					
SB-602(N)	SB-602(N)-7	9/13/2002	7			7.84					
SB-602(N)	SB-602(N)-7	9/13/2002	7			1 U					
SB-603(N)	SB-603(N)-7	9/13/2002	7			2.5 U					
SB-603(N)	SB-603(N)-7	9/13/2002	7			5 U					
SB-604(N)	SB-604(N)-3	9/13/2002	3			0.05 U					
SB-604(N)	SB-604(N)-7	9/13/2002	7			1 U					
SB-605(N)	SB-605(N)-3	9/13/2002	3			0.157					
SB-605(N)	SB-605(N)-7	9/13/2002	7			3.22					
SB-606(N)	SB-606(N)-3	9/13/2002	3			0.05 U					
SB-606(N)	SB-606(N)-7	9/13/2002	7			0.05 U					
SB-607(N)	SB-607(N)-11	9/13/2002	11			0.05 U					
SB-608(N)	SB-608(N)-3	9/13/2002	3			0.05 U					
SB-608(N)	SB-608(N)-6	9/13/2002	6			0.05 U					
SB-609(N)	SB-609(N)-3	9/13/2002	3			0.05 U					
SB-609(N)	SB-609(N)-7	9/13/2002	7			0.05 U					
SB-612(N)	SB-612 (N)-7	9/12/2002	7			5.35					
SB-612(N)	SB-612 (N)-7	9/12/2002	7			17.2					
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5			5 U					
SB-614(N)	SB-614 (N)-7	9/12/2002	7			1 U					
SB-615(N)	SB-615 (N)-7	9/12/2002	7			1 U					
SB-616(N)	SB-616 (N)-7	9/12/2002	7			5 U					
SB-617(N)	SB-617 (N)-3	9/12/2002	3			0.05 U					
SB-617(N)	SB-617 (N)-3	9/12/2002	3			0.05 U					
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5			0.05 U					
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5			0.05 U					
SB-618(N)	SB-618 (N)-7	9/12/2002	7	5 U	25 U	1 U	1.65 U	1.65 U	1.65 U	1 U	1 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7			1 U					
SB-619(N)	SB-619 (N)-7	9/12/2002	7			0.05 U					
SB-619(N)	SB-619 (N)-7	9/12/2002	7			0.05 U					
SB-619(N)	SB-619 (N)-11	9/12/2002	11			0.5 U					
SB-619(N)	SB-619 (N)-11	9/12/2002	11			0.05 U					
SB-620(N)	SB-620 (N)-3	9/12/2002	3			0.05 U					
SB-620(N)	SB-620 (N)-7	9/12/2002	7			2.5 U					
SB-620(N)	SB-620 (N)-7	9/12/2002	7			5 U					
SB-621(N)	SB-621 (N)-7	9/12/2002	7			0.05 U					
SB-622(N)	SB-622 (N)-2	9/12/2002	2			0.05 U					
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7			0.05 U					
SB-623(N)	SB-623 (N)-7	9/12/2002	7			1 U					
SB-623(N)	SB-623 (N)-7	9/12/2002	7			0.5 U					
SB-624(N)	SB-624 (N)-2	9/12/2002	2			0.05 U					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	2.5 U	12.5 U	0.5 U	3.3 U	3.3 U	3.3 U	0.5 U	0.5 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7								
SB-625(N)	SB-625 (N)-2	9/12/2002	2			0.05 U					
SB-625(N)	SB-625 (N)-7	9/12/2002	7			0.05 U					
SB-625(N)	SB-625 (N)-7	9/12/2002	7			0.05 U					
SB-625(N)	SB-625 (N)-10	9/12/2002	10			0.05 U					
SB-626(N)	SB-626 (N)-7	9/12/2002	7			2.5 U					
SB-626(N)	SB-626 (N)-7	9/12/2002	7			5 U					
SB-627(N)	SB-627(N)-2	8/28/2003	2			0.05 U					
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5			0.131 J					
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5			0.5 U					
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-700(P)	SB-700(P)-3	8/21/2002	3			0.05 U					
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.5 U	2.5 U	2 U				0.1 U	0.1 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5			0.1 U					
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-701(P)	SB-701(P)-2	8/20/2002	2			0.05 U					
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.01 U	0.0515	0.001 U				0.001 U	0.001 U
SB-701(P)	SB-701(P)-11	8/20/2002	11			0.05 U					
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.01 U	0.0246	0.001 U				0.001 U	0.001 U
SB-701(P)	SB-701(P)-12	8/20/2002	12			0.05 U					
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.01 U	0.0266	0.000167 J				0.001 U	0.001 U
SB-702(P)	SB-702(P)-2	8/21/2002	2			0.05 U					
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.01 U	0.0214	0.001 U				0.001 U	0.001 U
SB-702(P)	SB-702(P)-11	8/21/2002	11			0.05 U					
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.01 U	0.119	0.000395 J				0.001 U	0.001 U
SB-703(P)	SB-703(P)-2	8/21/2002	2			0.05 U					
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.01 U	0.0337	0.001 U				0.001 U	0.001 U
SB-703(P)	SB-703(P)-10	8/21/2002	10			0.05 U					
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-704(P)	SB-704(P)-2	8/21/2002	2			0.05 U					
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.01 U	0.00597 J	0.001 U				0.001 U	0.001 U
SB-704(P)	SB-704(P)-11	8/21/2002	11			0.05 U J-					
SB-705(P)	SB-705(P)-3	8/20/2002	3			0.05 U					
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5			0.05 U					
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5			0.05 U					
SB-705(P)	SB-705(P)-12	8/20/2002	12			0.05 U J-					
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5			0.05 U					
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.01 U	0.159	0.000157 J				0.001 U	0.001 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5			0.05 U J-					
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5			0.05 U J-					
SB-706(P)	SB-706(P)-12	8/21/2002	12			0.05 U					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2			0.05 U					
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.01 U	0.00583 J	0.001 U				0.001 U	0.001 U
SB-707(P)	SB-707(P)-10	8/21/2002	10			0.05 U					
SB-708(P)	SB-708(P)-3	8/20/2002	3			0.05 U					
SB-708(P)	SB-708(P)-10	8/20/2002	10			0.05 U					
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.01 U	0.0266	0.001 U				0.001 U	0.001 U
SB-709(P)	SB-709(P)-3	8/21/2002	3			0.05 U					
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.01 U	U B	0.001 U				0.001 U	0.001 U
SB-709(P)	SB-709(P)-10	8/21/2002	10			0.05 U					
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.01 U	0.02 U	0.000226 J				0.001 U	0.001 U
SB-710(P)	SB-710(P)-3	8/21/2002	3			0.05 U					
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.01 U	0.253	0.000373 J				0.001 U	0.001 U
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.01 U	0.13	0.000244				0.001 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-711(P)	SB-711(P)-3	8/21/2002	3			0.05 U					
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-711(P)	SB-711(P)-10	8/21/2002	10			0.05 U					
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.01 U	U B	0.001 U				0.001 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.01 U		0.001 U				0.001 U	0.001 U
SB-712(P)	SB-712(P)-2	8/21/2002	2			0.05 U					
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-712(P)	SB-712(P)-10	8/21/2002	10			0.05 U					
SB-713(P)	SB-713(P)-2	8/21/2002	2			0.05 U					
SB-713(P)	SB-713(P)-10	8/21/2002	10			0.05 U					
SB-714(P)	SB-714(P)-2	8/21/2002	2			0.05 U					
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5			2 U					
SB-714(P)	SB-714(P)-10	8/21/2002	10			1 U					
SB-714(P)	SB-714(P)-10	8/21/2002	10			5 U					
SB-715(P)	SB-715(P)-3	8/21/2002	3			0.05 U J-					
SB-715(P)	SB-715(P)-7	8/21/2002	7			0.05 U					
SB-715(P)	SB-715(P)-11	8/21/2002	11			0.05 U					
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-716(P)	SB-716(P)-3	8/20/2002	3			0.05 U					
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.01 U	0.0077 J	0.001 U				0.001 U	0.001 U
SB-716(P)	SB-716(P)-10	8/20/2002	10			0.05 U					
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
SB-717(P)	SB-717(P)-3	8/20/2002	3			0.05 U					
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.01 U	0.0058 J	0.001 U				0.001 U	0.001 U
SB-717(P)	SB-717(P)-10	8/20/2002	10			0.05 U					
SB-718(P)	SB-718(P)-2	8/21/2002	2			0.05 U					
SB-718(P)	SB-718(P)-10	8/21/2002	10			0.05 U					
SB-719(P)	SB-719(P)-5	8/23/2002	5			0.05 U					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-719(P)	SB-719(P)-12	8/23/2002	12			0.05 U J-					
SB-720(P)	SB-720(P)-2	8/23/2002	2			0.05 U					
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5			5.86					
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5			5 U					
SB-721(P)	SB-721(P)-7'	3/31/2004	7			0.04 U					
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2			0.05 U					
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5			0.05 J/J					
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-			0.05 U					
SB-801(Q)	SB801(Q)-2	8/26/2002	2			0.05 U					
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5			0.05 U					
SB-801(Q)	SB801(Q)-0	8/26/2002	-			0.05 U					
SB-802(Q)	SB802(Q)-2	8/26/2002	2			0.05 U					
SB-802(Q)	SB802(Q)-9	8/26/2002	9			0.05 U					
SB-802(Q)	SB802(Q)-0	8/26/2002	-			0.05 U					
SB-803(Q)	SB803(Q)-2	8/26/2002	2			0.05 U					
SB-803(Q)	SB803(Q)-9	8/26/2002	9			0.05 U					
SB-803(Q)	SB803(Q)-0	8/26/2002	-			0.05 U					
SB-804(Q)	SB-804(Q)-2	8/26/2002	2			0.05 U					
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5			0.05 U					
SB-804(Q)	SB-804(Q)-0	8/26/2002	-			0.05 U					
SB-805(Q)	SB-805(Q)-2	8/26/2002	2			0.05 U					
SB-805(Q)	SB-805(Q)-10	8/26/2002	10			0.05 U					
SB-805(Q)	SB-805(Q)-0	8/26/2002	-			0.05 U					
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2			0.05 U					
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8			0.05 U					
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11			0.05 U					
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-			0.05 U					
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7			0.5 U J					
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9			0.0632					
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-			0.05 U					
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2			0.05 U					
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5			0.05 J/J					
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-			0.05 U					
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2			0.05 U					
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8			0.05 U					
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-			0.05 U					
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5			0.05 U					
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9			0.05 J/J					
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9			0.05 J/J					
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-			0.05 U					
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5			0.05 U					
SB-812(Q)	SB812(Q)-9	8/27/2002	9			0.05 U					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-			0.05 U					
SB-813(Q)	SB813(Q)-5	8/27/2002	5			0.05 U					
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5			0.05 U					
SB-813(Q)	SB813(Q)-0	8/27/2002	-			0.05 U R					
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5			0.05 U					
SB-814(Q)	SB814(Q)-9	8/27/2002	9			0.05 U					
SB-814(Q)	SB814(Q)-0	8/27/2002	-			0.05 U					
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5			0.05 U					
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5			0.05 U					
SB-815(Q)	SB815(Q)-0	8/27/2002	-			0.05 U					
SB-816(Q)	SB816(Q)-2	8/27/2002	2			0.05 U					
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5			0.05 U					
SB-816(Q)	SB816(Q)-0	8/27/2002	-			0.05 U					
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2			0.05 U					
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9			0.05 U					
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-			0.05 U					
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4			0.05 U					
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9			0.05 U					
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-			0.05 U					
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5			0.05 U					
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11			0.05 U					
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-			0.05 U					
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2			0.05 U					
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9			0.05 U					
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9			3.54 J					
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-			0.05 U					
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.5 U	2.5 U	0.1 U				0.1 U	0.1 U
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5			1.29 J					
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5			0.2 U J					
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9			0.05 U					
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-			0.05 U					
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2			0.05 U					
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2			0.05 U					
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8			0.307 J					
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10			0.05 U					
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-			0.05 U					
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2			0.05 U					
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9			0.05 U					
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-			0.05 U					
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3			0.05 U					
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9			0.05 U					
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-			0.05 U					
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2			0.05 U					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9			0.05 J/J					
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-			0.05 U					
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3			0.05 U					
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9			0.05 U					
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-			0.05 U					
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2			0.05 U					
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5			0.05 U					
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-			0.05 U					
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2			0.05 U					
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5			0.05 J/J					
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-			0.05 J/J					
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2			0.05 U					
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2			0.05 U					
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9			0.05 U					
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-			0.05 U					
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2			0.05 U					
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5			0.05 U					
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-			0.05 U					
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4			0.05 U					
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9			0.05 U					
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-			0.05 U					
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2			0.05 U					
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9			0.05 U					
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-			0.05 U					
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2			0.05 U					
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5			0.05 U					
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-			0.05 U					
SB-834(Q)	SB-834(Q)-2	9/5/2003	2			0.05 U					
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5			0.05 U					
SB-835(Q)	SB-835(Q)-2	9/5/2003	2			0.05 U					
SB-835(Q)	SB-835(Q)-7	9/5/2003	7			0.05 U					
SB-900(S)	SB-900(S)-4	8/26/2002	4			0.001 U					
SB-900(S)	SB-900(S)-12	8/26/2002	12			0.05 U					
SB-900(S)	SB-900(S)-12	8/26/2002	12			5 U					
SB-901(S)	SB-901 (S)-8	8/26/2002	8			0.05 U					
SB-901(S)	SB-901 (S)-10	8/26/2002	10			0.05 U					
SB-902(S)	SB-902 (S)-8	8/26/2002	8			0.05 U					
SB-902(S)	SB-902 (S)-12	8/26/2002	12			0.001 U					
SB-903(S)	SB-903 (S)-8	8/26/2002	8			0.05 U					
SB-903(S)	SB-903 (S)-10	8/26/2002	10			0.25 U					
SB-903(S)	SB-903 (S)-10	8/26/2002	10			0.5 U					
SB-904(S)	SB-904 (S)-4	8/26/2002	4			0.05 U					

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Locator ID	Sample ID	Sample Date	Depth	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate	bis-(2-chloroethoxy)methane	bis-(2-Chloroethyl)ether	Bromobenzene	Bromochloromethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12			1 U					
SB-904(S)	SB-904 (S)-12	8/26/2002	12			0.25 U					
SB-905(S)	SB-905 (S)-4	8/26/2002	4			0.05 U					
SB-905(S)	SB-905 (S)-12	8/26/2002	12			0.001 U					
SB-905(S)	SB-905 (S)-12	8/26/2002	12			0.05 U					
SB-906(S)	SB-906 (S)-4	8/27/2002	4			0.001 U					
SB-906(S)	SB-906 (S)-12	8/27/2002	12			0.05 U					
SB-908(S)	SB-908 (S)-4	8/27/2002	4			0.05 U					
SB-908(S)	SB-908 (S)-8	8/27/2002	8			0.001 U					
SB-908(S)	SB-908 (S)-10	8/27/2002	10			0.05 U					
SB-908(S)	SB-908 (S)-10	8/27/2002	10			0.001 U					
SB-909(S)	SB-909 (S)-4	8/27/2002	4			0.05 U					
SB-909(S)	SB-909 (S)-10	8/27/2002	10			0.05 U					
SB-910(S)	SB-910 (S)-4	8/27/2002	4			0.001 U					
SB-910(S)	SB-910 (S)-10	8/27/2002	10			0.05 U					
SB-911(S)	SB-911 (S)-8	8/27/2002	8			0.05 U					
SB-911(S)	SB-911 (S)-10	8/27/2002	10			0.05 U					
SB-912(S)	SB-912(S)-2	9/3/2003	2			0.05 U					
SB-912(S)	SB-912(S)-7	9/3/2003	7			0.05 U					
SB-913(S)	SB-913(S)-2	9/3/2003	2			0.05 U					
SB-913(S)	SB-913(S)-7	9/3/2003	7			0.05 U					
SB-914(S)	SB-914(S)-2	9/3/2003	2			0.05 U					
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5			0.05 U					
TP-201(C)	TP201(C)6E	8/27/2002	-	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.01 U	0.02 U	0.001 U				0.001 U	0.001 U

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-									
EX-2(S)	Ex-2/S-1	3/30/2004	-									
EX-3(S)	Ex-3/S-1	3/31/2004	-									
EX-4(S)	Ex-4/S-1	3/29/2004	-									
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5									
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5									
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5									
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5									
SB-005(A)	SB-005(A)-7	9/5/2003	7									
SB-006(A)	SB-006(A)-7'	3/31/2004	7									
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5									
SB-008(A)	SB-008(A)-2	8/26/2003	2									
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5									
SB-009(A)	SB-009(A)-2	8/27/2003	2									
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5									
SB-010(A)	SB-010(A)-2	8/27/2003	2									
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5									
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5									
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5									
SB-015(A)	SB-015(A)-7	9/10/2003	7									
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5									
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5									
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5									
SB-020(A)	SB-020(A)-4'	3/31/2004	4									
SB-020(A)	SB-020(A)-9'	3/31/2004	9									
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5									
SB-027(A)	SB-027 (A)-11	9/14/2005	11									
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5									
SB-100(C)	SB100(C)3	8/22/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.001 U	0.005 U	0.005 U	0.00188 J	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-101(C)	SB101(C)3	8/22/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-101(C)	SB101(C)18	8/22/2002	18	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-102(C)	SB102(C)18	8/22/2002	18	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-103(C)	SB103(C)3	8/22/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-103(C)	SB103(C)18	8/22/2002	18	0.001 U	0.005 U	0.005 U	0.00262 J	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-104(C)	SB104(C)4	8/22/2002	4	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-104(C)	SB104(C)20	8/22/2002	20	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-200(C)	SB200(C)3	8/22/2002	3									
SB-200(C)	SB200(C)3	8/22/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-202(C)	SB202(C)3	8/22/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.001 U	0.005 U	0.000698 J	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.001 U	0.005 U	0.000601 J	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.001 U	0.005 U	0.00062 J	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-253(C)	SB-253(C)-2	9/4/2003	2									
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5									
SB-254(C)	SB-254(C)-2	9/4/2003	2									
SB-254(C)	SB-254(C)-7	9/4/2003	7									
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5									
SB-255(C)	SB-255(C)-7	9/4/2003	7									
SB-256(C)	SB-256 (c) 6	3/31/2004	6	0.1 U	0.1 U	0.5 U	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5									
SB-304(D)	SB-304-D-2.0	8/19/2002	2									
SB-304(D)	SB-D-DUP-0819	8/19/2002	2									
SB-304(D)	SB-304-D-5.0	8/19/2002	5									
SB-305(D)	SB-305-D-2.0	8/19/2002	2									
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5									
SB-306(D)	SB-306-D-2.0	8/19/2002	2									
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5									
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-310(D)	SB-310-D-2.0	8/19/2002	2									
SB-310(D)	SB-310-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-313(D)	SB-313-D-5.0	8/20/2002	5									
SB-313(D)	SB-313-D-18.0	8/20/2002	18									
SB-314(D)	SB-314-D-15.0	8/20/2002	15									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15									
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-15.0	8/20/2002	15									
SB-315(D)	SB-315-D-15.0	8/20/2002	15									
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-5.0	8/20/2002	5									
SB-316(D)	SB-D-DUP-3	8/20/2002	5									
SB-316(D)	SB-316-D-10.0	8/20/2002	10									
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5									
SB-318(D)	SB-318-D-10.0	8/20/2002	10									
SB-318(D)	SB-318-D-15.0	8/20/2002	15									
SB-320(D)	SB-320(D)-2	9/10/2003	2									
SB-320(D)	SB-320(D)-5	9/10/2003	5									
SB-321(D)	SB-321(D)-2	9/9/2003	2									
SB-321(D)	SB-321(D)-5	9/9/2003	5									
SB-322(D)	SB-322(D)-2	9/10/2003	2									
SB-322(D)	SB-322(D)-5	9/10/2003	5									
SB-323(D)	SB-323(D)-7	9/10/2003	7									
SB-324(D)	SB-324(D)-2	9/10/2003	2									
SB-324(D)	SB-324(D)-5	9/10/2003	5									
SB-324(D)	SB-324(D)-10	9/10/2003	10									
SB-324(D)	SB-324(D)-15	9/10/2003	15									
SB-324(D)	SB-324(D)-DUP	9/10/2003	15									
SB-325(D)	SB-325(D)-2	9/10/2003	2									
SB-325(D)	SB-325(D)-DUP	9/10/2003	2									
SB-325(D)	SB-325(D)-5	9/10/2003	5									
SB-325(D)	SB-325(D)-10	9/10/2003	10									
SB-325(D)	SB-325(D)-15	9/10/2003	15									
SB-326(D)	SB-326(D)-2	9/9/2003	2									
SB-326(D)	SB-326(D)-5	9/9/2003	5									
SB-326(D)	SB-326(D)-10	9/9/2003	10									
SB-327(D)	SB-327(D)-2	9/10/2003	2									
SB-327(D)	SB-327(D)-5	9/10/2003	5									
SB-327(D)	SB-327(D)-10	9/10/2003	10									
SB-327(D)	SB-327(D)-15	9/10/2003	15									
SB-328(D)	SB-328(D)-2	9/10/2003	2									
SB-328(D)	SB-328(D)-5	9/10/2003	5									
SB-328(D)	SB-328(D)-10	9/10/2003	10									
SB-328(D)	SB-328(D)-15	9/10/2003	15									
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5									
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5									
SB-401(F)	SB-401(F)-20	8/23/2002	20									
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5									
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5									
SB-402(F)	SB-402(F)-20	8/23/2002	20									
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5									
SB-404(F)	SB-404(F)-20	8/22/2002	20									
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5									
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5									
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5									
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5									
SB-406(F)	SB-406(F)-8	8/22/2002	8									
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5									
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7									
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5									
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5									
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5									
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5									
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5									
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5									
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5									
SB-409(F)	SB-409(F)-5	8/22/2002	5									
SB-410(F)	SB-410(F)-2'	3/31/2004	2									
SB-410(F)	SB-410(F)-4'	3/31/2004	4									
SB-410(F)	SB-410(F)-9'	3/31/2004	9									
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10									
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6									
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10									
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10									
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10									
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11									
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10									
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10									
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10									
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10									
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10									
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10									
SB-600(N)	SB-600(N)-7	9/13/2002	7									
SB-601(N)	SB-601(N)-3	9/13/2002	3									
SB-601(N)	SB-601(N)-7	9/13/2002	7									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-3	9/13/2002	3									
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-604(N)	SB-604(N)-3	9/13/2002	3									
SB-604(N)	SB-604(N)-7	9/13/2002	7									
SB-605(N)	SB-605(N)-3	9/13/2002	3									
SB-605(N)	SB-605(N)-7	9/13/2002	7									
SB-606(N)	SB-606(N)-3	9/13/2002	3									
SB-606(N)	SB-606(N)-7	9/13/2002	7									
SB-607(N)	SB-607(N)-11	9/13/2002	11									
SB-608(N)	SB-608(N)-3	9/13/2002	3									
SB-608(N)	SB-608(N)-6	9/13/2002	6									
SB-609(N)	SB-609(N)-3	9/13/2002	3									
SB-609(N)	SB-609(N)-7	9/13/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5									
SB-614(N)	SB-614 (N)-7	9/12/2002	7									
SB-615(N)	SB-615 (N)-7	9/12/2002	7									
SB-616(N)	SB-616 (N)-7	9/12/2002	7									
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5									
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5									
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1 U	1 U	5 U	10 U	1 U	1 U	1 U	1 U	5 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-620(N)	SB-620 (N)-3	9/12/2002	3									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-621(N)	SB-621 (N)-7	9/12/2002	7									
SB-622(N)	SB-622 (N)-2	9/12/2002	2									
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-624(N)	SB-624 (N)-2	9/12/2002	2									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.5 U	0.5 U	2.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-2	9/12/2002	2									
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-10	9/12/2002	10									
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-627(N)	SB-627(N)-2	8/28/2003	2									
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5									
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5									
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-700(P)	SB-700(P)-3	8/21/2002	3									
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.1 U	0.1 U	U B	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5									
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-701(P)	SB-701(P)-2	8/20/2002	2									
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.001 U	0.005 U	0.005 U	0.00389 J	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-701(P)	SB-701(P)-11	8/20/2002	11									
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.001 U	0.005 U	U B	0.000431 J	0.002 U	0.001 U	0.001 U	0.001 U	0.00153
SB-701(P)	SB-701(P)-12	8/20/2002	12									
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-702(P)	SB-702(P)-2	8/21/2002	2									
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-702(P)	SB-702(P)-11	8/21/2002	11									
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.001 U	0.005 U	0.005 U	0.000519 J	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-703(P)	SB-703(P)-2	8/21/2002	2									
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-703(P)	SB-703(P)-10	8/21/2002	10									
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-704(P)	SB-704(P)-2	8/21/2002	2									
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-704(P)	SB-704(P)-11	8/21/2002	11									
SB-705(P)	SB-705(P)-3	8/20/2002	3									
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5									
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5									
SB-705(P)	SB-705(P)-12	8/20/2002	12									
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5									
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.001 U	0.005 U	U B	0.00208 J	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5									
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5									
SB-706(P)	SB-706(P)-12	8/21/2002	12									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2									
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-707(P)	SB-707(P)-10	8/21/2002	10									
SB-708(P)	SB-708(P)-3	8/20/2002	3									
SB-708(P)	SB-708(P)-10	8/20/2002	10									
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.001 U	0.005 U	0.000359 J	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-709(P)	SB-709(P)-3	8/21/2002	3									
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.005 U	0.000385 J	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-709(P)	SB-709(P)-10	8/21/2002	10									
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-710(P)	SB-710(P)-3	8/21/2002	3									
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.005 U	0.005 U	0.00481 J	0.002 U	0.001 U	0.001 U	0.000244	0.005 U
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.005 U	0.005 U	0.00242	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.001 U	0.005 U	0.000358 J	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-711(P)	SB-711(P)-3	8/21/2002	3									
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.001 U	0.005 U	0.000428 J	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-711(P)	SB-711(P)-10	8/21/2002	10									
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-712(P)	SB-712(P)-2	8/21/2002	2									
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-712(P)	SB-712(P)-10	8/21/2002	10									
SB-713(P)	SB-713(P)-2	8/21/2002	2									
SB-713(P)	SB-713(P)-10	8/21/2002	10									
SB-714(P)	SB-714(P)-2	8/21/2002	2									
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5									
SB-714(P)	SB-714(P)-10	8/21/2002	10									
SB-714(P)	SB-714(P)-10	8/21/2002	10									
SB-715(P)	SB-715(P)-3	8/21/2002	3									
SB-715(P)	SB-715(P)-7	8/21/2002	7									
SB-715(P)	SB-715(P)-11	8/21/2002	11									
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-716(P)	SB-716(P)-3	8/20/2002	3									
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-716(P)	SB-716(P)-10	8/20/2002	10									
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-717(P)	SB-717(P)-3	8/20/2002	3									
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
SB-717(P)	SB-717(P)-10	8/20/2002	10									
SB-718(P)	SB-718(P)-2	8/21/2002	2									
SB-718(P)	SB-718(P)-10	8/21/2002	10									
SB-719(P)	SB-719(P)-5	8/23/2002	5									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-719(P)	SB-719(P)-12	8/23/2002	12									
SB-720(P)	SB-720(P)-2	8/23/2002	2									
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5									
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5									
SB-721(P)	SB-721(P)-7'	3/31/2004	7									
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2									
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5									
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-									
SB-801(Q)	SB801(Q)-2	8/26/2002	2									
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5									
SB-801(Q)	SB801(Q)-0	8/26/2002	-									
SB-802(Q)	SB802(Q)-2	8/26/2002	2									
SB-802(Q)	SB802(Q)-9	8/26/2002	9									
SB-802(Q)	SB802(Q)-0	8/26/2002	-									
SB-803(Q)	SB803(Q)-2	8/26/2002	2									
SB-803(Q)	SB803(Q)-9	8/26/2002	9									
SB-803(Q)	SB803(Q)-0	8/26/2002	-									
SB-804(Q)	SB-804(Q)-2	8/26/2002	2									
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5									
SB-804(Q)	SB-804(Q)-0	8/26/2002	-									
SB-805(Q)	SB-805(Q)-2	8/26/2002	2									
SB-805(Q)	SB-805(Q)-10	8/26/2002	10									
SB-805(Q)	SB-805(Q)-0	8/26/2002	-									
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2									
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8									
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11									
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-									
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7									
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9									
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-									
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2									
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5									
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-									
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2									
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8									
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-									
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5									
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9									
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9									
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-									
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5									
SB-812(Q)	SB812(Q)-9	8/27/2002	9									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-									
SB-813(Q)	SB813(Q)-5	8/27/2002	5									
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5									
SB-813(Q)	SB813(Q)-0	8/27/2002	-									
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5									
SB-814(Q)	SB814(Q)-9	8/27/2002	9									
SB-814(Q)	SB814(Q)-0	8/27/2002	-									
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5									
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5									
SB-815(Q)	SB815(Q)-0	8/27/2002	-									
SB-816(Q)	SB816(Q)-2	8/27/2002	2									
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5									
SB-816(Q)	SB816(Q)-0	8/27/2002	-									
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2									
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9									
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-									
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4									
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9									
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-									
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5									
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11									
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-									
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2									
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9									
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9									
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-									
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.1 U	0.1 U	U J	1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.0167
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5									
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5									
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9									
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-									
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2									
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2									
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8									
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10									
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-									
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2									
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9									
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-									
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3									
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9									
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-									
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9									
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-									
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3									
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9									
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-									
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2									
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5									
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-									
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2									
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5									
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-									
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2									
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2									
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9									
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-									
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2									
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5									
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-									
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4									
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9									
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-									
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2									
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9									
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-									
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2									
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5									
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-									
SB-834(Q)	SB-834(Q)-2	9/5/2003	2									
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5									
SB-835(Q)	SB-835(Q)-2	9/5/2003	2									
SB-835(Q)	SB-835(Q)-7	9/5/2003	7									
SB-900(S)	SB-900(S)-4	8/26/2002	4									
SB-900(S)	SB-900(S)-12	8/26/2002	12									
SB-900(S)	SB-900(S)-12	8/26/2002	12									
SB-901(S)	SB-901 (S)-8	8/26/2002	8									
SB-901(S)	SB-901 (S)-10	8/26/2002	10									
SB-902(S)	SB-902 (S)-8	8/26/2002	8									
SB-902(S)	SB-902 (S)-12	8/26/2002	12									
SB-903(S)	SB-903 (S)-8	8/26/2002	8									
SB-903(S)	SB-903 (S)-10	8/26/2002	10									
SB-903(S)	SB-903 (S)-10	8/26/2002	10									
SB-904(S)	SB-904 (S)-4	8/26/2002	4									

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Locator ID	Sample ID	Sample Date	Depth	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chlorometha
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12									
SB-904(S)	SB-904 (S)-12	8/26/2002	12									
SB-905(S)	SB-905 (S)-4	8/26/2002	4									
SB-905(S)	SB-905 (S)-12	8/26/2002	12									
SB-905(S)	SB-905 (S)-12	8/26/2002	12									
SB-906(S)	SB-906 (S)-4	8/27/2002	4									
SB-906(S)	SB-906 (S)-12	8/27/2002	12									
SB-908(S)	SB-908 (S)-4	8/27/2002	4									
SB-908(S)	SB-908 (S)-8	8/27/2002	8									
SB-908(S)	SB-908 (S)-10	8/27/2002	10									
SB-908(S)	SB-908 (S)-10	8/27/2002	10									
SB-909(S)	SB-909 (S)-4	8/27/2002	4									
SB-909(S)	SB-909 (S)-10	8/27/2002	10									
SB-910(S)	SB-910 (S)-4	8/27/2002	4									
SB-910(S)	SB-910 (S)-10	8/27/2002	10									
SB-911(S)	SB-911 (S)-8	8/27/2002	8									
SB-911(S)	SB-911 (S)-10	8/27/2002	10									
SB-912(S)	SB-912(S)-2	9/3/2003	2									
SB-912(S)	SB-912(S)-7	9/3/2003	7									
SB-913(S)	SB-913(S)-2	9/3/2003	2									
SB-913(S)	SB-913(S)-7	9/3/2003	7									
SB-914(S)	SB-914(S)-2	9/3/2003	2									
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5									
TP-201(C)	TP201(C)6E	8/27/2002	-	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.001 U	0.005 U	0.005 U	0.02 U	0.002 U	0.001 U	0.001 U	0.001 U	0.005 U

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Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
EX-1(S)	Ex-1/S-1	3/30/2004	-	
EX-2(S)	Ex-2/S-1	3/30/2004	-	
EX-3(S)	Ex-3/S-1	3/31/2004	-	
EX-4(S)	Ex-4/S-1	3/29/2004	-	
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	
SB-005(A)	SB-005(A)-7	9/5/2003	7	
SB-006(A)	SB-006(A)-7'	3/31/2004	7	
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	
SB-008(A)	SB-008(A)-2	8/26/2003	2	
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	
SB-009(A)	SB-009(A)-2	8/27/2003	2	
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	
SB-010(A)	SB-010(A)-2	8/27/2003	2	
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	
SB-015(A)	SB-015(A)-7	9/10/2003	7	
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	
SB-020(A)	SB-020(A)-4'	3/31/2004	4	
SB-020(A)	SB-020(A)-9'	3/31/2004	9	
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	
SB-027(A)	SB-027 (A)-11	9/14/2005	11	
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	
SB-100(C)	SB100(C)3	8/22/2002	3	
SB-100(C)	SB100(C)20	8/22/2002	20	
SB-101(C)	SB101(C)3	8/22/2002	3	
SB-101(C)	SB101(C)18	8/22/2002	18	
SB-102(C)	SB102(C)1-3	8/22/2002	2	
SB-102(C)	SB102(C)18	8/22/2002	18	
SB-103(C)	SB103(C)3	8/22/2002	3	
SB-103(C)	SB103(C)18	8/22/2002	18	
SB-104(C)	SB104(C)4	8/22/2002	4	
SB-104(C)	SB104(C)20	8/22/2002	20	
SB-200(C)	SB200(C)3	8/22/2002	3	
SB-200(C)	SB200(C)3	8/22/2002	3	

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Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
SB-200(C)	SB200(C)6	8/22/2002	6	
SB-201(C)	SB201(C)3	8/22/2002	3	
SB-201(C)	SB201(C)6	8/22/2002	6	
SB-202(C)	SB202(C)2	8/22/2002	2	
SB-202(C)	SB202(C)3	8/22/2002	3	
SB-202(C)	SB202(C)7	8/22/2002	7	
SB-203(C)	SB203(C)3	8/22/2002	3	
SB-203(C)	SB203(C)7	8/22/2002	7	
SB-204(C)	SB204(C)3	8/22/2002	3	
SB-204(C)	SB204(C)8	8/22/2002	8	
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	
SB-206(C)	SB206(C)-6	8/27/2002	6	
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	
SB-209(C)	SB209(C)-3	8/27/2002	3	
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	
SB-211(C)	SB211(C)-3	8/27/2002	3	
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	
SB-213(C)	SB213(C)-4	8/27/2002	4	
SB-214(C)	SB214(C)-5	8/27/2002	5	
SB-215(C)	SB215(C)-5	8/27/2002	5	
SB-216(C)	SB216(C)-3	8/27/2002	3	
SB-217(C)	SB217(C)-3	8/28/2002	3	
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	
SB-219(C)	SB219(C)-4	8/28/2002	4	
SB-220(C)	SB220 (C)-5	8/28/2002	5	
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	
SB-223(C)	SB223 (C)-6	8/29/2002	6	
SB-224(C)	SB224 (C)-2	8/29/2002	2	
SB-225(C)	SB225 (C)-3	8/29/2002	3	
SB-226(C)	SB226 (C)-3	8/29/2002	3	
SB-227(C)	SB227 (C)-8	8/29/2002	8	
SB-228(C)	SB228 (C)-4	8/29/2002	4	
SB-229(C)	SB229 (C)-8	8/29/2002	8	
SB-230(C)	SB230 (C)-8	8/29/2002	8	
SB-231(C)	SB231 (C)-2	8/29/2002	2	
SB-232(C)	SB 232 (C)-8	8/30/2002	8	
SB-233(C)	SB 233 (C)-3	8/30/2002	3	
SB-234(C)	SB 234 (C)-8	8/30/2002	8	
SB-235(C)	SB 235 (C)-6	8/30/2002	6	
SB-236(C)	SB 236 (C)-6	8/30/2002	6	
SB-237(C)	SB 237 (C)-6	8/30/2002	6	

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Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
SB-238(C)	SB 238 (C)-3	8/30/2002	3	
SB-239(C)	SB-239(C)-4	9/3/2002	4	
SB-240(C)	SB-240(C)-6	9/3/2002	6	
SB-241(C)	SB-241(C)-5	9/3/2002	5	
SB-242(C)	SB-242(C)-4	9/3/2002	4	
SB-243(C)	SB-243(C)-4	9/3/2002	4	
SB-244(C)	SB-244(C)-3	9/3/2002	3	
SB-245(C)	SB-245(C)-5	9/3/2002	5	
SB-246(C)	SB-246(C)-5	9/3/2002	5	
SB-247(C)	SB-247(C)-6	9/3/2002	6	
SB-250(C)	SB-250(C)-4	9/9/2002	4	
SB-251(C)	SB-251(C)-4	9/9/2002	4	
SB-252(C)	SB-252(C)-5	9/9/2002	5	
SB-253(C)	SB-253(C)-2	9/4/2003	2	
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	
SB-254(C)	SB-254(C)-2	9/4/2003	2	
SB-254(C)	SB-254(C)-7	9/4/2003	7	
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	
SB-255(C)	SB-255(C)-7	9/4/2003	7	
SB-256(C)	SB-256 (c) 6	3/31/2004	6	
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	
SB-304(D)	SB-304-D-2.0	8/19/2002	2	
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	
SB-304(D)	SB-304-D-5.0	8/19/2002	5	
SB-305(D)	SB-305-D-2.0	8/19/2002	2	
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	
SB-306(D)	SB-306-D-2.0	8/19/2002	2	
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	
SB-307(D)	SB-307-D-2.0	8/19/2002	2	
SB-307(D)	SB-307-D-2.0	8/19/2002	2	
SB-309(D)	SB-309-D-2.0	8/19/2002	2	
SB-309(D)	SB-309-D-5.0	8/19/2002	5	
SB-309(D)	SB-309-D-5.0	8/19/2002	5	
SB-310(D)	SB-310-D-2.0	8/19/2002	2	
SB-310(D)	SB-310-D-5.0	8/19/2002	5	
SB-311(D)	SB-311-D-5.0	8/19/2002	5	
SB-311(D)	SB-311-D-5.0	8/19/2002	5	
SB-312(D)	SB-312-D-5.0	8/19/2002	5	
SB-312(D)	SB-312-D-5.0	8/19/2002	5	
SB-313(D)	SB-313-D-5.0	8/20/2002	5	
SB-313(D)	SB-313-D-18.0	8/20/2002	18	
SB-314(D)	SB-314-D-15.0	8/20/2002	15	

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			feet	
SB-314(D)	SB-314-D-15.0	8/20/2002	15	
SB-315(D)	SB-315-D-2.0	8/20/2002	2	
SB-315(D)	SB-315-D-2.0	8/20/2002	2	
SB-315(D)	SB-315-D-15.0	8/20/2002	15	
SB-315(D)	SB-315-D-15.0	8/20/2002	15	
SB-316(D)	SB-316-D-2.0	8/20/2002	2	
SB-316(D)	SB-316-D-2.0	8/20/2002	2	
SB-316(D)	SB-316-D-5.0	8/20/2002	5	
SB-316(D)	SB-D-DUP-3	8/20/2002	5	
SB-316(D)	SB-316-D-10.0	8/20/2002	10	
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	
SB-318(D)	SB-318-D-10.0	8/20/2002	10	
SB-318(D)	SB-318-D-15.0	8/20/2002	15	
SB-320(D)	SB-320(D)-2	9/10/2003	2	
SB-320(D)	SB-320(D)-5	9/10/2003	5	
SB-321(D)	SB-321(D)-2	9/9/2003	2	
SB-321(D)	SB-321(D)-5	9/9/2003	5	
SB-322(D)	SB-322(D)-2	9/10/2003	2	
SB-322(D)	SB-322(D)-5	9/10/2003	5	
SB-323(D)	SB-323(D)-7	9/10/2003	7	
SB-324(D)	SB-324(D)-2	9/10/2003	2	
SB-324(D)	SB-324(D)-5	9/10/2003	5	
SB-324(D)	SB-324(D)-10	9/10/2003	10	
SB-324(D)	SB-324(D)-15	9/10/2003	15	
SB-324(D)	SB-324(D)-DUP	9/10/2003	15	
SB-325(D)	SB-325(D)-2	9/10/2003	2	
SB-325(D)	SB-325(D)-DUP	9/10/2003	2	
SB-325(D)	SB-325(D)-5	9/10/2003	5	
SB-325(D)	SB-325(D)-10	9/10/2003	10	
SB-325(D)	SB-325(D)-15	9/10/2003	15	
SB-326(D)	SB-326(D)-2	9/9/2003	2	
SB-326(D)	SB-326(D)-5	9/9/2003	5	
SB-326(D)	SB-326(D)-10	9/9/2003	10	
SB-327(D)	SB-327(D)-2	9/10/2003	2	
SB-327(D)	SB-327(D)-5	9/10/2003	5	
SB-327(D)	SB-327(D)-10	9/10/2003	10	
SB-327(D)	SB-327(D)-15	9/10/2003	15	
SB-328(D)	SB-328(D)-2	9/10/2003	2	
SB-328(D)	SB-328(D)-5	9/10/2003	5	
SB-328(D)	SB-328(D)-10	9/10/2003	10	
SB-328(D)	SB-328(D)-15	9/10/2003	15	
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5	

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Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
SB-400(F)	SB-400(F)-5	8/22/2002	5	
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5	
SB-401(F)	SB-401(F)-20	8/23/2002	20	
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	
SB-402(F)	SB-402(F)-20	8/23/2002	20	
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5	
SB-404(F)	SB-404(F)-20	8/22/2002	20	
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5	
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5	
SB-406(F)	SB-406(F)-8	8/22/2002	8	
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5	
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7	
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5	
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5	
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5	
SB-409(F)	SB-409(F)-5	8/22/2002	5	
SB-410(F)	SB-410(F)-2'	3/31/2004	2	
SB-410(F)	SB-410(F)-4'	3/31/2004	4	
SB-410(F)	SB-410(F)-9'	3/31/2004	9	
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10	
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6	
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10	
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10	
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10	
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11	
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10	
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10	
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10	
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10	
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10	
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10	
SB-600(N)	SB-600(N)-7	9/13/2002	7	
SB-601(N)	SB-601(N)-3	9/13/2002	3	
SB-601(N)	SB-601(N)-7	9/13/2002	7	

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			feet	
SB-601(N)	SB-601(N)-7	9/13/2002	7	
SB-602(N)	SB-602(N)-3	9/13/2002	3	
SB-602(N)	SB-602(N)-7	9/13/2002	7	
SB-602(N)	SB-602(N)-7	9/13/2002	7	
SB-603(N)	SB-603(N)-7	9/13/2002	7	
SB-603(N)	SB-603(N)-7	9/13/2002	7	
SB-604(N)	SB-604(N)-3	9/13/2002	3	
SB-604(N)	SB-604(N)-7	9/13/2002	7	
SB-605(N)	SB-605(N)-3	9/13/2002	3	
SB-605(N)	SB-605(N)-7	9/13/2002	7	
SB-606(N)	SB-606(N)-3	9/13/2002	3	
SB-606(N)	SB-606(N)-7	9/13/2002	7	
SB-607(N)	SB-607(N)-11	9/13/2002	11	
SB-608(N)	SB-608(N)-3	9/13/2002	3	
SB-608(N)	SB-608(N)-6	9/13/2002	6	
SB-609(N)	SB-609(N)-3	9/13/2002	3	
SB-609(N)	SB-609(N)-7	9/13/2002	7	
SB-612(N)	SB-612 (N)-7	9/12/2002	7	
SB-612(N)	SB-612 (N)-7	9/12/2002	7	
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5	
SB-614(N)	SB-614 (N)-7	9/12/2002	7	
SB-615(N)	SB-615 (N)-7	9/12/2002	7	
SB-616(N)	SB-616 (N)-7	9/12/2002	7	
SB-617(N)	SB-617 (N)-3	9/12/2002	3	
SB-617(N)	SB-617 (N)-3	9/12/2002	3	
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5	
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5	
SB-618(N)	SB-618 (N)-7	9/12/2002	7	
SB-618(N)	SB-618 (N)-7	9/12/2002	7	
SB-619(N)	SB-619 (N)-7	9/12/2002	7	
SB-619(N)	SB-619 (N)-7	9/12/2002	7	
SB-619(N)	SB-619 (N)-11	9/12/2002	11	
SB-619(N)	SB-619 (N)-11	9/12/2002	11	
SB-620(N)	SB-620 (N)-3	9/12/2002	3	
SB-620(N)	SB-620 (N)-7	9/12/2002	7	
SB-620(N)	SB-620 (N)-7	9/12/2002	7	
SB-621(N)	SB-621 (N)-7	9/12/2002	7	
SB-622(N)	SB-622 (N)-2	9/12/2002	2	
SB-622(N)	SB-622 (N)-7	9/12/2002	7	
SB-622(N)	SB-622 (N)-7	9/12/2002	7	
SB-623(N)	SB-623 (N)-7	9/12/2002	7	
SB-623(N)	SB-623 (N)-7	9/12/2002	7	
SB-624(N)	SB-624 (N)-2	9/12/2002	2	

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			feet	
SB-624(N)	SB-624 (N)-7	9/12/2002	7	
SB-624(N)	SB-624 (N)-7	9/12/2002	7	
SB-625(N)	SB-625 (N)-2	9/12/2002	2	
SB-625(N)	SB-625 (N)-7	9/12/2002	7	
SB-625(N)	SB-625 (N)-7	9/12/2002	7	
SB-625(N)	SB-625 (N)-10	9/12/2002	10	
SB-626(N)	SB-626 (N)-7	9/12/2002	7	
SB-626(N)	SB-626 (N)-7	9/12/2002	7	
SB-627(N)	SB-627(N)-2	8/28/2003	2	
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	
SB-700(P)	SB-700(P)-3	8/21/2002	3	
SB-700(P)	SB-700(P)-3	8/21/2002	3	
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	
SB-701(P)	SB-701(P)-2	8/20/2002	2	
SB-701(P)	SB-701(P)-2	8/20/2002	2	
SB-701(P)	SB-701(P)-11	8/20/2002	11	
SB-701(P)	SB-701(P)-11	8/20/2002	11	
SB-701(P)	SB-701(P)-12	8/20/2002	12	J
SB-701(P)	SB-701(P)-12	8/20/2002	12	
SB-702(P)	SB-702(P)-2	8/21/2002	2	
SB-702(P)	SB-702(P)-2	8/21/2002	2	
SB-702(P)	SB-702(P)-11	8/21/2002	11	
SB-702(P)	SB-702(P)-11	8/21/2002	11	
SB-703(P)	SB-703(P)-2	8/21/2002	2	
SB-703(P)	SB-703(P)-2	8/21/2002	2	
SB-703(P)	SB-703(P)-10	8/21/2002	10	
SB-703(P)	SB-703(P)-10	8/21/2002	10	
SB-704(P)	SB-704(P)-2	8/21/2002	2	
SB-704(P)	SB-704(P)-2	8/21/2002	2	
SB-704(P)	SB-704(P)-11	8/21/2002	11	
SB-704(P)	SB-704(P)-11	8/21/2002	11	
SB-705(P)	SB-705(P)-3	8/20/2002	3	
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	
SB-705(P)	SB-705(P)-12	8/20/2002	12	
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5	
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	
SB-706(P)	SB-706(P)-12	8/21/2002	12	

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Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
SB-707(P)	SB-707(P)-2	8/21/2002	2	
SB-707(P)	SB-707(P)-10	8/21/2002	10	
SB-707(P)	SB-707(P)-10	8/21/2002	10	
SB-708(P)	SB-708(P)-3	8/20/2002	3	
SB-708(P)	SB-708(P)-10	8/20/2002	10	
SB-709(P)	SB-709(P)-3	8/21/2002	3	
SB-709(P)	SB-709(P)-3	8/21/2002	3	
SB-709(P)	SB-709(P)-10	8/21/2002	10	
SB-709(P)	SB-709(P)-10	8/21/2002	10	
SB-709(P)	SB-709(P)-10	8/21/2002	10	
SB-710(P)	SB-710(P)-3	8/21/2002	3	
SB-710(P)	SB-710(P)-3	8/21/2002	3	
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	
SB-711(P)	SB-711(P)-3	8/21/2002	3	
SB-711(P)	SB-711(P)-3	8/21/2002	3	
SB-711(P)	SB-711(P)-10	8/21/2002	10	
SB-711(P)	SB-711(P)-10	8/21/2002	10	
SB-712(P)	SB-712(P)-2	8/21/2002	2	
SB-712(P)	SB-712(P)-2	8/21/2002	2	
SB-712(P)	SB-712(P)-2	8/21/2002	2	
SB-712(P)	SB-712(P)-10	8/21/2002	10	
SB-712(P)	SB-712(P)-10	8/21/2002	10	
SB-713(P)	SB-713(P)-2	8/21/2002	2	
SB-713(P)	SB-713(P)-10	8/21/2002	10	
SB-714(P)	SB-714(P)-2	8/21/2002	2	
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5	
SB-714(P)	SB-714(P)-10	8/21/2002	10	
SB-714(P)	SB-714(P)-10	8/21/2002	10	
SB-715(P)	SB-715(P)-3	8/21/2002	3	
SB-715(P)	SB-715(P)-7	8/21/2002	7	
SB-715(P)	SB-715(P)-11	8/21/2002	11	
SB-716(P)	SB-716(P)-3	8/20/2002	3	
SB-716(P)	SB-716(P)-3	8/20/2002	3	
SB-716(P)	SB-716(P)-10	8/20/2002	10	
SB-716(P)	SB-716(P)-10	8/20/2002	10	
SB-717(P)	SB-717(P)-3	8/20/2002	3	
SB-717(P)	SB-717(P)-3	8/20/2002	3	
SB-717(P)	SB-717(P)-10	8/20/2002	10	
SB-717(P)	SB-717(P)-10	8/20/2002	10	
SB-718(P)	SB-718(P)-2	8/21/2002	2	
SB-718(P)	SB-718(P)-10	8/21/2002	10	
SB-719(P)	SB-719(P)-5	8/23/2002	5	

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Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
SB-719(P)	SB-719(P)-12	8/23/2002	12	
SB-720(P)	SB-720(P)-2	8/23/2002	2	
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5	
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5	
SB-721(P)	SB-721(P)-7'	3/31/2004	7	
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2	
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5	
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-	
SB-801(Q)	SB801(Q)-2	8/26/2002	2	
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5	
SB-801(Q)	SB801(Q)-0	8/26/2002	-	
SB-802(Q)	SB802(Q)-2	8/26/2002	2	
SB-802(Q)	SB802(Q)-9	8/26/2002	9	
SB-802(Q)	SB802(Q)-0	8/26/2002	-	
SB-803(Q)	SB803(Q)-2	8/26/2002	2	
SB-803(Q)	SB803(Q)-9	8/26/2002	9	
SB-803(Q)	SB803(Q)-0	8/26/2002	-	
SB-804(Q)	SB-804(Q)-2	8/26/2002	2	
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5	
SB-804(Q)	SB-804(Q)-0	8/26/2002	-	
SB-805(Q)	SB-805(Q)-2	8/26/2002	2	
SB-805(Q)	SB-805(Q)-10	8/26/2002	10	
SB-805(Q)	SB-805(Q)-0	8/26/2002	-	
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2	
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8	
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11	
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-	
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7	
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9	
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-	
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2	
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5	
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-	
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2	
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8	
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-	
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5	
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9	
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9	
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-	
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5	
SB-812(Q)	SB812(Q)-9	8/27/2002	9	

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
SB-812(Q)	SB812(Q)-0	8/27/2002	-	
SB-813(Q)	SB813(Q)-5	8/27/2002	5	
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5	
SB-813(Q)	SB813(Q)-0	8/27/2002	-	
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5	
SB-814(Q)	SB814(Q)-9	8/27/2002	9	
SB-814(Q)	SB814(Q)-0	8/27/2002	-	
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5	
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5	
SB-815(Q)	SB815(Q)-0	8/27/2002	-	
SB-816(Q)	SB816(Q)-2	8/27/2002	2	
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5	
SB-816(Q)	SB816(Q)-0	8/27/2002	-	
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2	
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9	
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-	
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4	
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9	
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-	
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5	
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11	
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-	
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2	
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9	
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9	
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-	
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	J
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5	
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5	
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9	
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-	
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2	
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2	
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8	
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10	
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-	
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2	
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9	
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-	
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3	
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9	
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-	
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2	

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Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9	
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-	
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3	
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9	
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-	
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2	
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5	
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-	
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2	
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5	
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-	
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2	
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2	
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9	
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-	
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2	
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5	
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-	
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4	
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9	
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-	
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2	
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9	
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-	
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2	
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5	
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-	
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	
SB-900(S)	SB-900(S)-4	8/26/2002	4	
SB-900(S)	SB-900(S)-12	8/26/2002	12	
SB-900(S)	SB-900(S)-12	8/26/2002	12	
SB-901(S)	SB-901 (S)-8	8/26/2002	8	
SB-901(S)	SB-901 (S)-10	8/26/2002	10	
SB-902(S)	SB-902 (S)-8	8/26/2002	8	
SB-902(S)	SB-902 (S)-12	8/26/2002	12	
SB-903(S)	SB-903 (S)-8	8/26/2002	8	
SB-903(S)	SB-903 (S)-10	8/26/2002	10	
SB-903(S)	SB-903 (S)-10	8/26/2002	10	
SB-904(S)	SB-904 (S)-4	8/26/2002	4	

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Locator ID	Sample ID	Sample Date	Depth	ne
			feet	
SB-904(S)	SB-904 (S)-12	8/26/2002	12	
SB-904(S)	SB-904 (S)-12	8/26/2002	12	
SB-905(S)	SB-905 (S)-4	8/26/2002	4	
SB-905(S)	SB-905 (S)-12	8/26/2002	12	
SB-905(S)	SB-905 (S)-12	8/26/2002	12	
SB-906(S)	SB-906 (S)-4	8/27/2002	4	
SB-906(S)	SB-906 (S)-12	8/27/2002	12	
SB-908(S)	SB-908 (S)-4	8/27/2002	4	
SB-908(S)	SB-908 (S)-8	8/27/2002	8	
SB-908(S)	SB-908 (S)-10	8/27/2002	10	
SB-908(S)	SB-908 (S)-10	8/27/2002	10	
SB-909(S)	SB-909 (S)-4	8/27/2002	4	
SB-909(S)	SB-909 (S)-10	8/27/2002	10	
SB-910(S)	SB-910 (S)-4	8/27/2002	4	
SB-910(S)	SB-910 (S)-10	8/27/2002	10	
SB-911(S)	SB-911 (S)-8	8/27/2002	8	
SB-911(S)	SB-911 (S)-10	8/27/2002	10	
SB-912(S)	SB-912(S)-2	9/3/2003	2	
SB-912(S)	SB-912(S)-7	9/3/2003	7	
SB-913(S)	SB-913(S)-2	9/3/2003	2	
SB-913(S)	SB-913(S)-7	9/3/2003	7	
SB-914(S)	SB-914(S)-2	9/3/2003	2	
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	
TP-201(C)	TP201(C)6E	8/27/2002	-	
TP-202(C)	TP202(C)6W	8/27/2002	-	

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Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-						0.05 U			
EX-2(S)	Ex-2/S-1	3/30/2004	-						0.0778			
EX-3(S)	Ex-3/S-1	3/31/2004	-						0.05 U			
EX-4(S)	Ex-4/S-1	3/29/2004	-						0.05 U			
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5						0.05 U		0.2 U	
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5						0.05 U		0.2 U	
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5						0.05 U		0.2 U	
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5						0.05 U		0.2 U	
SB-005(A)	SB-005(A)-7	9/5/2003	7						0.05 U		0.2 U	
SB-006(A)	SB-006(A)-7'	3/31/2004	7						73.8		7.68	
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5						68.8		7.3 J	
SB-008(A)	SB-008(A)-2	8/26/2003	2						0.05 U		0.2 U	
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5						0.05 U		0.2 U	
SB-009(A)	SB-009(A)-2	8/27/2003	2						0.05 U		0.2 U	
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5						4.72		1.6 J	
SB-010(A)	SB-010(A)-2	8/27/2003	2						0.05 U		0.2 U	
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5						0.05 U		0.2 U	
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5						0.05 U		0.2 U	
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5						0.05 U		0.2 U	
SB-015(A)	SB-015(A)-7	9/10/2003	7						11.7		1.41	
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5						0.05 U		0.2 U	
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5						0.05 U		0.2 U	
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5						53.3		8.76 J	
SB-020(A)	SB-020(A)-4'	3/31/2004	4						0.05 U		0.2 U	
SB-020(A)	SB-020(A)-9'	3/31/2004	9						0.05 U		0.2 U	
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5						8.15 J		5.64 J	
SB-027(A)	SB-027 (A)-11	9/14/2005	11						8.24 J		5.63 J	
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5						0.0305 U J		0.122 U J	
SB-100(C)	SB100(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.0427	0.005 U	0.00675	0.0146 J
SB-101(C)	SB101(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-101(C)	SB101(C)18	8/22/2002	18	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-102(C)	SB102(C)18	8/22/2002	18	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-103(C)	SB103(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-103(C)	SB103(C)18	8/22/2002	18	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00026 J	0.005 U	0.001 U	0.013 J
SB-104(C)	SB104(C)4	8/22/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-104(C)	SB104(C)20	8/22/2002	20	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-200(C)	SB200(C)3	8/22/2002	3									
SB-200(C)	SB200(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U

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Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00048 J	0.005 U	0.001 U	0.0138 J
SB-202(C)	SB202(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00015 J	0.005 U	0.001 U	0.025 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00017 J	0.005 U	0.001 U	0.025 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00022 J	0.005 U	0.001 U	0.025 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00015 J	0.005 U	0.001 U	0.025 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00015 J	0.005 U	0.001 U	0.025 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.0116 J
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00016 J	0.005 U	0.001 U	0.025 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00088 J	0.005 U	0.00746	0.025 U

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VOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00051 J	0.005 U	0.001 U	0.025 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00044 J	0.005 U	0.001 U	0.0116 J
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.0177 J
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00015 J	0.005 U	0.001 U	0.025 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.0165 J
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00062 J	0.005 U	0.001 U	0.025 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00102	0.005 U	0.001 U	0.0103 J
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00054 J	0.005 U	0.001 U	0.025 U
SB-253(C)	SB-253(C)-2	9/4/2003	2						0.05 U		0.2 U	
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5						0.05 U		0.2 U	
SB-254(C)	SB-254(C)-2	9/4/2003	2						0.05 U		0.2 U	
SB-254(C)	SB-254(C)-7	9/4/2003	7						0.05 U		0.2 U	
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5						0.05 U		0.2 U	
SB-255(C)	SB-255(C)-7	9/4/2003	7						0.05 U		0.2 U	
SB-256(C)	SB-256 (c) 6	3/31/2004	6	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	0.1 U	0.2 U	0.2 U	0.5 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5						0.751		0.371 J	
SB-304(D)	SB-304-D-2.0	8/19/2002	2						0.593		0.283 J	
SB-304(D)	SB-D-DUP-0819	8/19/2002	2						0.0974		0.0552 J	
SB-304(D)	SB-304-D-5.0	8/19/2002	5						1.34		0.626	
SB-305(D)	SB-305-D-2.0	8/19/2002	2						0.728		0.308 J	
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5						0.125		0.0445 J	
SB-306(D)	SB-306-D-2.0	8/19/2002	2						3.47		2.72	
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5						3.16		9.51	
SB-307(D)	SB-307-D-2.0	8/19/2002	2						0.001 U		0.001 U	
SB-307(D)	SB-307-D-2.0	8/19/2002	2						0.015 U		0.2 U	
SB-309(D)	SB-309-D-2.0	8/19/2002	2						1.95		0.83	
SB-309(D)	SB-309-D-5.0	8/19/2002	5						0.00045 J		0.000227 J	
SB-309(D)	SB-309-D-5.0	8/19/2002	5						0.0227 U		0.0215 J	
SB-310(D)	SB-310-D-2.0	8/19/2002	2						0.314		0.313	
SB-310(D)	SB-310-D-5.0	8/19/2002	5						6.96		11.2	
SB-311(D)	SB-311-D-5.0	8/19/2002	5						0.001 U		0.001 U	
SB-311(D)	SB-311-D-5.0	8/19/2002	5						0.0183 U		0.2 U	
SB-312(D)	SB-312-D-5.0	8/19/2002	5						0.00019 J		0.001 U	
SB-312(D)	SB-312-D-5.0	8/19/2002	5						0.0183 U		0.0183 J	
SB-313(D)	SB-313-D-5.0	8/20/2002	5						2.59		0.504	
SB-313(D)	SB-313-D-18.0	8/20/2002	18						3.95		3.67	
SB-314(D)	SB-314-D-15.0	8/20/2002	15						0.17		0.0137	

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VOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15						0.219		0.0492 J	
SB-315(D)	SB-315-D-2.0	8/20/2002	2						0.0164		0.00172	
SB-315(D)	SB-315-D-2.0	8/20/2002	2						0.0569 U		0.0132 J	
SB-315(D)	SB-315-D-15.0	8/20/2002	15						0.00046 U		0.001 U	
SB-315(D)	SB-315-D-15.0	8/20/2002	15						0.0176 J		0.2 U	
SB-316(D)	SB-316-D-2.0	8/20/2002	2						0.00247		0.001 U	
SB-316(D)	SB-316-D-2.0	8/20/2002	2						0.02 J		0.2 U	
SB-316(D)	SB-316-D-5.0	8/20/2002	5						32		4.06	
SB-316(D)	SB-D-DUP-3	8/20/2002	5						17.6		1.94	
SB-316(D)	SB-316-D-10.0	8/20/2002	10						53.7		6.97	
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5						25.5		4.99	
SB-318(D)	SB-318-D-10.0	8/20/2002	10						15.6		2.22	
SB-318(D)	SB-318-D-15.0	8/20/2002	15						13		1.68 J	
SB-320(D)	SB-320(D)-2	9/10/2003	2						0.05 U		0.2 U	
SB-320(D)	SB-320(D)-5	9/10/2003	5						0.05 U		0.2 U	
SB-321(D)	SB-321(D)-2	9/9/2003	2						1.9		0.313	
SB-321(D)	SB-321(D)-5	9/9/2003	5						3.52		3.76	
SB-322(D)	SB-322(D)-2	9/10/2003	2						0.05 U		0.2 U	
SB-322(D)	SB-322(D)-5	9/10/2003	5						0.05 U		0.2 U	
SB-323(D)	SB-323(D)-7	9/10/2003	7						0.05 U		0.2 U	
SB-324(D)	SB-324(D)-2	9/10/2003	2						0.05 U		0.2 U	
SB-324(D)	SB-324(D)-5	9/10/2003	5						0.05 U		0.2 U	
SB-324(D)	SB-324(D)-10	9/10/2003	10						0.381		1.38	
SB-324(D)	SB-324(D)-15	9/10/2003	15						0.298		0.0644	
SB-324(D)	SB-324(D)-DUP	9/10/2003	15						0.972		0.485	
SB-325(D)	SB-325(D)-2	9/10/2003	2						0.05 U		0.2 U	
SB-325(D)	SB-325(D)-DUP	9/10/2003	2						0.05 U		0.2 U	
SB-325(D)	SB-325(D)-5	9/10/2003	5						0.05 U		0.2 U	
SB-325(D)	SB-325(D)-10	9/10/2003	10						0.05 U		0.2 U	
SB-325(D)	SB-325(D)-15	9/10/2003	15						0.05 U		0.2 U	
SB-326(D)	SB-326(D)-2	9/9/2003	2						0.0234		0.2 U	
SB-326(D)	SB-326(D)-5	9/9/2003	5						7.91		1.06	
SB-326(D)	SB-326(D)-10	9/9/2003	10						9.62		1.28	
SB-327(D)	SB-327(D)-2	9/10/2003	2						0.05 U		0.2 U	
SB-327(D)	SB-327(D)-5	9/10/2003	5						0.05 U		0.2 U	
SB-327(D)	SB-327(D)-10	9/10/2003	10						0.158		0.655	
SB-327(D)	SB-327(D)-15	9/10/2003	15						10.1		1.81	
SB-328(D)	SB-328(D)-2	9/10/2003	2						0.05 U		0.2 U	
SB-328(D)	SB-328(D)-5	9/10/2003	5						0.0493 J		0.2 U	
SB-328(D)	SB-328(D)-10	9/10/2003	10						0.695		3.18	
SB-328(D)	SB-328(D)-15	9/10/2003	15						0.0515		0.0364	
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5						0.05 U			

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5						0.05 U J			
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5						0.05 U J			
SB-401(F)	SB-401(F)-20	8/23/2002	20						0.05 U			
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5						0.05 U		0.000321	
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5						0.00357			
SB-402(F)	SB-402(F)-20	8/23/2002	20						0.05 U J			
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5						0.05 U			
SB-404(F)	SB-404(F)-20	8/22/2002	20						0.05 U			
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5						0.05 U			
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5						0.593		0.36	
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5						0.138 J			
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5						0.05 U			
SB-406(F)	SB-406(F)-8	8/22/2002	8						0.05 U J			
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5						0.05 U			
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7						3.19			
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5						0.22 J		0.535 J	
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5						1.02 J			
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5						0.001 U		0.001 U	
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5						0.05 U			
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5						0.296			
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5						0.05 U J			
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5						0.05 U			
SB-409(F)	SB-409(F)-5	8/22/2002	5						0.05 U			
SB-410(F)	SB-410(F)-2'	3/31/2004	2						0.05 U		0.2 U	
SB-410(F)	SB-410(F)-4'	3/31/2004	4						0.05 U		0.2 U	
SB-410(F)	SB-410(F)-9'	3/31/2004	9						0.05 U		0.2 U	
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10						0.05 U J			
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6						0.418			
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10						32.3			
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10						0.518			
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10						0.5 U J			
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11						0.05 U J			
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10						0.616			
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10						13.5			
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10						7.79			
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10						32.7			
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10						0.05 U J			
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10						6.53			
SB-600(N)	SB-600(N)-7	9/13/2002	7						31.6			
SB-601(N)	SB-601(N)-3	9/13/2002	3						0.05 U		0.2 U	
SB-601(N)	SB-601(N)-7	9/13/2002	7						83		20 U	

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Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7						82.2			
SB-602(N)	SB-602(N)-3	9/13/2002	3						0.05 U			
SB-602(N)	SB-602(N)-7	9/13/2002	7						204		22.6	
SB-602(N)	SB-602(N)-7	9/13/2002	7						3.39			
SB-603(N)	SB-603(N)-7	9/13/2002	7						42		10 U	
SB-603(N)	SB-603(N)-7	9/13/2002	7						71.5			
SB-604(N)	SB-604(N)-3	9/13/2002	3						0.05 U			
SB-604(N)	SB-604(N)-7	9/13/2002	7						35.4		12.1	
SB-605(N)	SB-605(N)-3	9/13/2002	3						4.3		0.543	
SB-605(N)	SB-605(N)-7	9/13/2002	7						151		17.7	
SB-606(N)	SB-606(N)-3	9/13/2002	3						0.05 U			
SB-606(N)	SB-606(N)-7	9/13/2002	7						0.05 U			
SB-607(N)	SB-607(N)-11	9/13/2002	11						0.05 U			
SB-608(N)	SB-608(N)-3	9/13/2002	3						0.05 U		0.2 U	
SB-608(N)	SB-608(N)-6	9/13/2002	6						0.05 U		0.213	
SB-609(N)	SB-609(N)-3	9/13/2002	3						0.05 U		0.2 U	
SB-609(N)	SB-609(N)-7	9/13/2002	7						0.05 U		0.2 U	
SB-612(N)	SB-612 (N)-7	9/12/2002	7						148		15.2	
SB-612(N)	SB-612 (N)-7	9/12/2002	7						90.1			
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5						26.2			
SB-614(N)	SB-614 (N)-7	9/12/2002	7						11.9			
SB-615(N)	SB-615 (N)-7	9/12/2002	7						29.4			
SB-616(N)	SB-616 (N)-7	9/12/2002	7						68.5			
SB-617(N)	SB-617 (N)-3	9/12/2002	3						0.05 U		0.2 U	
SB-617(N)	SB-617 (N)-3	9/12/2002	3						0.05 U			
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5						0.05 U			
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5						0.05 U			
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1 U	1 U	1 U	1 U	5 U	27.3	2 U	2.95	5 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7						31.9	5 U		
SB-619(N)	SB-619 (N)-7	9/12/2002	7						0.05 U		0.2 U	
SB-619(N)	SB-619 (N)-7	9/12/2002	7						0.05 U			
SB-619(N)	SB-619 (N)-11	9/12/2002	11						141		10.2	
SB-619(N)	SB-619 (N)-11	9/12/2002	11						0.356			
SB-620(N)	SB-620 (N)-3	9/12/2002	3						0.05 U			
SB-620(N)	SB-620 (N)-7	9/12/2002	7						20.9		10 U	
SB-620(N)	SB-620 (N)-7	9/12/2002	7						21.2			
SB-621(N)	SB-621 (N)-7	9/12/2002	7						0.05 U			
SB-622(N)	SB-622 (N)-2	9/12/2002	2						0.05 U			
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00168	0.005 U	0.001 U	0.025 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7						0.05 U			
SB-623(N)	SB-623 (N)-7	9/12/2002	7						8.19		5.34	
SB-623(N)	SB-623 (N)-7	9/12/2002	7						18.1			
SB-624(N)	SB-624 (N)-2	9/12/2002	2						0.05 U			

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	3.47	1 U	2.65	2.5 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7							10 U		
SB-625(N)	SB-625 (N)-2	9/12/2002	2						0.05 U			
SB-625(N)	SB-625 (N)-7	9/12/2002	7						0.05 U		0.2 U	
SB-625(N)	SB-625 (N)-7	9/12/2002	7						0.05 U			
SB-625(N)	SB-625 (N)-10	9/12/2002	10						0.05 U			
SB-626(N)	SB-626 (N)-7	9/12/2002	7						63.7		10 U	
SB-626(N)	SB-626 (N)-7	9/12/2002	7						106			
SB-627(N)	SB-627(N)-2	8/28/2003	2						0.05 U		0.2 U	
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5						6.1		3.19	
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5						12.4		4.18	
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-700(P)	SB-700(P)-3	8/21/2002	3						0.05 U			
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	1.5	0.2 U	0.638	0.5 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5						6.12			
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-701(P)	SB-701(P)-2	8/20/2002	2						0.05 U			
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-701(P)	SB-701(P)-11	8/20/2002	11						0.05 U			
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.0102	0.005 U	0.000848 J	0.025 U
SB-701(P)	SB-701(P)-12	8/20/2002	12						0.05 U			
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00072 J	0.005 U	0.001 U	0.025 U
SB-702(P)	SB-702(P)-2	8/21/2002	2						0.05 U			
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00017 J	0.005 U	0.001 U	0.025 U
SB-702(P)	SB-702(P)-11	8/21/2002	11						0.05 U			
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00343	0.005 U	0.001 U	0.025 U
SB-703(P)	SB-703(P)-2	8/21/2002	2						0.05 U			
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00026 J	0.005 U	0.001 U	0.025 U
SB-703(P)	SB-703(P)-10	8/21/2002	10						0.05 U			
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00079 J	0.005 U	0.001 U	0.025 U
SB-704(P)	SB-704(P)-2	8/21/2002	2						0.05 U			
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-704(P)	SB-704(P)-11	8/21/2002	11						0.05 U J-			
SB-705(P)	SB-705(P)-3	8/20/2002	3						0.05 U			
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5						0.05 U			
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5						0.05 U			
SB-705(P)	SB-705(P)-12	8/20/2002	12						0.05 U J-			
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5						0.05 U			
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00057 J	0.005 U	0.001 U	0.025 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5						0.05 U J-			
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5						0.05 U			
SB-706(P)	SB-706(P)-12	8/21/2002	12						0.05 U			

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2						0.05 U			
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-707(P)	SB-707(P)-10	8/21/2002	10						0.05 U			
SB-708(P)	SB-708(P)-3	8/20/2002	3						0.05 U			
SB-708(P)	SB-708(P)-10	8/20/2002	10						0.05 U			
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00056 J	0.005 U	0.001 U	0.025 U
SB-709(P)	SB-709(P)-3	8/21/2002	3						0.05 U			
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00023 J	0.005 U	0.001 U	0.025 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00022	0.005 U	0.001 U	0.025 U
SB-709(P)	SB-709(P)-10	8/21/2002	10						0.05 U			
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00102	0.005 U	0.001 U	0.025 U
SB-710(P)	SB-710(P)-3	8/21/2002	3						0.05 U			
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00146	0.005 U	0.001 U	0.0121
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00118	0.005 U	0.001 U	0.025 U
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00077 J	0.005 U	0.001 U	0.025 U
SB-711(P)	SB-711(P)-3	8/21/2002	3						0.05 U			
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00089 J	0.005 U	0.001 U	0.025 U
SB-711(P)	SB-711(P)-10	8/21/2002	10						0.05 U			
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00174	0.005 U	0.001 U	0.025 U
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00115	0.005 U	0.001 U	0.025 U
SB-712(P)	SB-712(P)-2	8/21/2002	2						0.05 U			
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00292	0.005 U	0.001 U	0.025 U
SB-712(P)	SB-712(P)-10	8/21/2002	10						0.05 U			
SB-713(P)	SB-713(P)-2	8/21/2002	2						0.05 U			
SB-713(P)	SB-713(P)-10	8/21/2002	10						0.05 U			
SB-714(P)	SB-714(P)-2	8/21/2002	2						0.05 U			
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5						27.2			
SB-714(P)	SB-714(P)-10	8/21/2002	10						87.1		6.72	
SB-714(P)	SB-714(P)-10	8/21/2002	10									
SB-715(P)	SB-715(P)-3	8/21/2002	3						0.05 U J-			
SB-715(P)	SB-715(P)-7	8/21/2002	7						0.05 U			
SB-715(P)	SB-715(P)-11	8/21/2002	11						0.05 U			
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.00015 J	0.005 U	0.001 U	0.025 U
SB-716(P)	SB-716(P)-3	8/20/2002	3						0.05 U			
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-716(P)	SB-716(P)-10	8/20/2002	10						0.05 U			
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-717(P)	SB-717(P)-3	8/20/2002	3						0.05 U			
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
SB-717(P)	SB-717(P)-10	8/20/2002	10						0.05 U			
SB-718(P)	SB-718(P)-2	8/21/2002	2						0.05 U			
SB-718(P)	SB-718(P)-10	8/21/2002	10						0.05 U			
SB-719(P)	SB-719(P)-5	8/23/2002	5						0.05 U			

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-719(P)	SB-719(P)-12	8/23/2002	12						0.05 U J-			
SB-720(P)	SB-720(P)-2	8/23/2002	2						0.05 U			
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5						44.9			
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5						41.4			
SB-721(P)	SB-721(P)-7'	3/31/2004	7						0.05 U		0.2 U	
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2						0.05 U			
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5						0.05 J/J			
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-						0.05 U			
SB-801(Q)	SB801(Q)-2	8/26/2002	2						0.05 U			
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5						0.05 U			
SB-801(Q)	SB801(Q)-0	8/26/2002	-						0.05 U			
SB-802(Q)	SB802(Q)-2	8/26/2002	2						0.05 U			
SB-802(Q)	SB802(Q)-9	8/26/2002	9						0.05 U			
SB-802(Q)	SB802(Q)-0	8/26/2002	-						0.05 U			
SB-803(Q)	SB803(Q)-2	8/26/2002	2						0.05 U			
SB-803(Q)	SB803(Q)-9	8/26/2002	9						0.05 U			
SB-803(Q)	SB803(Q)-0	8/26/2002	-						0.05 U			
SB-804(Q)	SB-804(Q)-2	8/26/2002	2						0.05 U			
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5						0.05 U			
SB-804(Q)	SB-804(Q)-0	8/26/2002	-						0.05 U			
SB-805(Q)	SB-805(Q)-2	8/26/2002	2						0.05 U			
SB-805(Q)	SB-805(Q)-10	8/26/2002	10						0.05 U			
SB-805(Q)	SB-805(Q)-0	8/26/2002	-						0.05 U			
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2						0.05 U			
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8						0.05 U			
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11						0.05 U			
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-						0.05 U			
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7						13 J			
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9						0.172			
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-						0.05 U			
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2						0.05 U			
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5						0.05 J/J			
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-						0.05 U			
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2						0.05 U			
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8						0.05 U			
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-						0.05 U			
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5						0.05 U			
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9						0.05 J/J			
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9						0.05 J/J			
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-						0.05 U			
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5						0.05 U			
SB-812(Q)	SB812(Q)-9	8/27/2002	9						0.05 U			

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Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-						0.05 U			
SB-813(Q)	SB813(Q)-5	8/27/2002	5						0.05 U			
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5						0.05 U			
SB-813(Q)	SB813(Q)-0	8/27/2002	-						0.05 U R			
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5						0.05 U			
SB-814(Q)	SB814(Q)-9	8/27/2002	9						0.05 U			
SB-814(Q)	SB814(Q)-0	8/27/2002	-						0.05 U			
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5						0.05 U			
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5						0.05 U			
SB-815(Q)	SB815(Q)-0	8/27/2002	-						0.05 U			
SB-816(Q)	SB816(Q)-2	8/27/2002	2						0.05 U			
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5						0.05 U			
SB-816(Q)	SB816(Q)-0	8/27/2002	-						0.05 U			
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2						0.05 U			
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9						0.05 U			
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-						0.05 U			
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4						0.05 U			
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9						0.05 U			
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-						0.05 U			
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5						0.05 U			
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11						0.05 U			
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-						0.05 U			
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2						0.05 U			
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9						0.05 U			
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9						8.72 J			
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-						0.05 U			
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	U J	0.2 U	0.0189 J	U J
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5						19.9 J			
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5						6.57 J			
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9						0.174			
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-						0.05 U			
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2						0.05 U			
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2						0.05 U			
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8						17.7 J			
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10						0.05 U			
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-						0.05 U			
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2						0.05 U			
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9						0.05 U			
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-						0.05 U			
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3						0.05 U			
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9						0.05 U			
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-						0.05 U			
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2						0.05 U			

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Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9						0.05 J/J			
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-						0.05 U			
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3						0.05 U			
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9						0.05 U			
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-						0.05 U			
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2						0.05 U			
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5						0.05 U			
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-						0.05 U			
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2						0.05 U			
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5						0.05 J/J			
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-						0.05 J/J			
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2						0.05 U			
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2						0.05 U			
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9						0.05 U			
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-						0.05 U			
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2						0.05 U			
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5						0.05 U			
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-						0.05 U			
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4						0.05 U			
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9						0.05 U			
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-						0.05 U			
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2						0.05 U			
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9						0.05 U			
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-						0.05 U			
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2						0.05 U			
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5						0.05 U			
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-						0.05 U			
SB-834(Q)	SB-834(Q)-2	9/5/2003	2						0.0119 J		0.2 U	
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5						0.05 U		0.2 U	
SB-835(Q)	SB-835(Q)-2	9/5/2003	2						0.05 U		0.2 U	
SB-835(Q)	SB-835(Q)-7	9/5/2003	7						0.05 U		0.2 U	
SB-900(S)	SB-900(S)-4	8/26/2002	4						0.001 U		0.001 U	
SB-900(S)	SB-900(S)-12	8/26/2002	12						0.05 U		0.2 U	
SB-900(S)	SB-900(S)-12	8/26/2002	12						8.56			
SB-901(S)	SB-901 (S)-8	8/26/2002	8						0.05 U			
SB-901(S)	SB-901 (S)-10	8/26/2002	10						0.05 U			
SB-902(S)	SB-902 (S)-8	8/26/2002	8						0.05 U			
SB-902(S)	SB-902 (S)-12	8/26/2002	12						0.001 U		0.0093	
SB-903(S)	SB-903 (S)-8	8/26/2002	8						0.05 U			
SB-903(S)	SB-903 (S)-10	8/26/2002	10						0.0816 J		0.185 J	
SB-903(S)	SB-903 (S)-10	8/26/2002	10						0.5 U			
SB-904(S)	SB-904 (S)-4	8/26/2002	4						0.05 U			

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Locator ID	Sample ID	Sample Date	Depth	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene	Methylene chloride
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12						1 U		0.298 J	
SB-904(S)	SB-904 (S)-12	8/26/2002	12						0.298			
SB-905(S)	SB-905 (S)-4	8/26/2002	4						0.05 U			
SB-905(S)	SB-905 (S)-12	8/26/2002	12						0.001 U		0.001 U	
SB-905(S)	SB-905 (S)-12	8/26/2002	12						0.05 U			
SB-906(S)	SB-906 (S)-4	8/27/2002	4						0.001 U		0.001 U	
SB-906(S)	SB-906 (S)-12	8/27/2002	12						0.304		0.5	
SB-908(S)	SB-908 (S)-4	8/27/2002	4						0.147		0.0353 J	
SB-908(S)	SB-908 (S)-8	8/27/2002	8						0.00019 J		0.001 U	
SB-908(S)	SB-908 (S)-10	8/27/2002	10						0.05 U		0.001 U	
SB-908(S)	SB-908 (S)-10	8/27/2002	10						0.001 U			
SB-909(S)	SB-909 (S)-4	8/27/2002	4						0.05 U			
SB-909(S)	SB-909 (S)-10	8/27/2002	10						0.05 U			
SB-910(S)	SB-910 (S)-4	8/27/2002	4						0.00028 J		0.001 U	
SB-910(S)	SB-910 (S)-10	8/27/2002	10						0.05 U			
SB-911(S)	SB-911 (S)-8	8/27/2002	8						0.05 U			
SB-911(S)	SB-911 (S)-10	8/27/2002	10						0.05 U			
SB-912(S)	SB-912(S)-2	9/3/2003	2						0.05 U		0.2 U	
SB-912(S)	SB-912(S)-7	9/3/2003	7						0.05 U		0.2 U	
SB-913(S)	SB-913(S)-2	9/3/2003	2						0.05 U		0.2 U	
SB-913(S)	SB-913(S)-7	9/3/2003	7						0.05 U		0.2 U	
SB-914(S)	SB-914(S)-2	9/3/2003	2						0.05 U		0.2 U	
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5						0.05 U		0.2 U	
TP-201(C)	TP201(C)6E	8/27/2002	-	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.025 U

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-									
EX-2(S)	Ex-2/S-1	3/30/2004	-									
EX-3(S)	Ex-3/S-1	3/31/2004	-									
EX-4(S)	Ex-4/S-1	3/29/2004	-									
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	0.2 U			0.05 U					
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	0.2 U			0.05 U					
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	0.2 U			0.05 U					
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	0.2 U			0.05 U					
SB-005(A)	SB-005(A)-7	9/5/2003	7	0.2 U			0.05 U					
SB-006(A)	SB-006(A)-7'	3/31/2004	7	2 U			34.7					
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	10 U			38.2					
SB-008(A)	SB-008(A)-2	8/26/2003	2	0.2 U			0.05 U					
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	0.2 U			0.05 U					
SB-009(A)	SB-009(A)-2	8/27/2003	2	0.2 U			0.05 U					
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	2 U			3.9					
SB-010(A)	SB-010(A)-2	8/27/2003	2	0.2 U			0.05 U					
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	0.2 U			0.05 U					
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	0.2 U			0.05 U					
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	0.2 U			0.05 U					
SB-015(A)	SB-015(A)-7	9/10/2003	7	1 U			5.61					
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	0.2 U			0.05 U					
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	0.2 U			0.05 U					
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	10 U			38.3					
SB-020(A)	SB-020(A)-4'	3/31/2004	4	0.2 U			0.05 U					
SB-020(A)	SB-020(A)-9'	3/31/2004	9	0.2 U			0.05 U					
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	0.244 U J			12.8 J					
SB-027(A)	SB-027 (A)-11	9/14/2005	11	0.222 U J			13.2 J					
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	0.0244 U J			0.0305 U J					
SB-100(C)	SB100(C)3	8/22/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-100(C)	SB100(C)20	8/22/2002	20	0.01 U	0.0204		0.001 U B	0.0613	0.001 U	0.005 U	0.001 U	0.00454 B,J
SB-101(C)	SB101(C)3	8/22/2002	3	0.01 U	0.000195 J		0.001 U	0.000206 J	0.001 U	0.005 U	0.001 U	0.001 U B
SB-101(C)	SB101(C)18	8/22/2002	18	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-102(C)	SB102(C)18	8/22/2002	18	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-103(C)	SB103(C)3	8/22/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.00291 B,J
SB-103(C)	SB103(C)18	8/22/2002	18	0.01 U	0.001 U		0.001 U	0.000415 J	0.001 U	0.005 U	0.001 U	0.00598 B,J
SB-104(C)	SB104(C)4	8/22/2002	4	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.00287 B,J
SB-104(C)	SB104(C)20	8/22/2002	20	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-200(C)	SB200(C)3	8/22/2002	3									
SB-200(C)	SB200(C)3	8/22/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-201(C)	SB201(C)3	8/22/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-201(C)	SB201(C)6	8/22/2002	6	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-202(C)	SB202(C)2	8/22/2002	2	0.01 U	0.0327 J		0.001 U	0.000917 J	0.00255	0.005 U	0.001 U	0.00628 B,J
SB-202(C)	SB202(C)3	8/22/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.00277 B,J
SB-202(C)	SB202(C)7	8/22/2002	7	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-203(C)	SB203(C)3	8/22/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-203(C)	SB203(C)7	8/22/2002	7	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-204(C)	SB204(C)3	8/22/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-204(C)	SB204(C)8	8/22/2002	8	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-206(C)	SB206(C)-6	8/27/2002	6	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-209(C)	SB209(C)-3	8/27/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-211(C)	SB211(C)-3	8/27/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-213(C)	SB213(C)-4	8/27/2002	4	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-214(C)	SB214(C)-5	8/27/2002	5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-215(C)	SB215(C)-5	8/27/2002	5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-216(C)	SB216(C)-3	8/27/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-217(C)	SB217(C)-3	8/28/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-219(C)	SB219(C)-4	8/28/2002	4	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U J
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U J
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U J
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.01 U	0.0334		0.00597 J,B	0.001 U	0.00809	0.005 U	0.00961	0.001 U B

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.01 U	0.000282 J		0.001 U B	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.01 U	0.001 U		0.000248 J	0.001 U	0.001 U	0.005 U	0.001 U	0.000592 J
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.01 U	0.000188 J		0.001 U B	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.01 U	0.000242 J		0.001 U B	0.000443 J	0.001 U	0.005 U	0.001 U	0.001 U B
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.01 U	0.001 U		0.001 U B	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U B
SB-253(C)	SB-253(C)-2	9/4/2003	2	0.2 U			0.05 U					
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	0.2 U			0.05 U					
SB-254(C)	SB-254(C)-2	9/4/2003	2	0.2 U			0.05 U					
SB-254(C)	SB-254(C)-7	9/4/2003	7	0.2 U			0.05 U					
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	0.2 U			0.05 U					
SB-255(C)	SB-255(C)-7	9/4/2003	7	0.2 U			0.05 U					
SB-256(C)	SB-256 (c) 6	3/31/2004	6	0.1 U	0.5 U		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	0.4 U			1.82					
SB-304(D)	SB-304-D-2.0	8/19/2002	2	0.4 U			1.03					
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	0.2 U			0.0822					
SB-304(D)	SB-304-D-5.0	8/19/2002	5	0.4 U			2.99					
SB-305(D)	SB-305-D-2.0	8/19/2002	2	0.4 U			1.44					
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	0.2 U			0.168					
SB-306(D)	SB-306-D-2.0	8/19/2002	2	0.4 U			11.6					
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	0.4 U			37					
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.01 U			0.001 U					
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.2 U			0.05 U					
SB-309(D)	SB-309-D-2.0	8/19/2002	2	0.2 U			2.87					
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.01 U			0.000997 J					
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.2 U			0.0623					
SB-310(D)	SB-310-D-2.0	8/19/2002	2	0.2 U			1.53					
SB-310(D)	SB-310-D-5.0	8/19/2002	5	1 U			44.3					
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.01 U			0.001 U					
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.2 U			0.05 U					
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.01 U			0.000677 J					
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.2 U			0.0397 J					
SB-313(D)	SB-313-D-5.0	8/20/2002	5	0.2 U			2.28					
SB-313(D)	SB-313-D-18.0	8/20/2002	18	0.2 U			16.1					
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.01 U			0.0531					

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.2 U			0.254					
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.01 U			0.00316					
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.2 U			0.0238 J					
SB-315(D)	SB-315-D-15.0	8/20/2002	15	0.01 U			0.000735 J					
SB-315(D)	SB-315-D-15.0	8/20/2002	15	0.2 U			0.0143 J					
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.01 U			0.00025 J					
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.2 U			0.05 U					
SB-316(D)	SB-316-D-5.0	8/20/2002	5	1 U			16					
SB-316(D)	SB-D-DUP-3	8/20/2002	5	0.4 U			7.94					
SB-316(D)	SB-316-D-10.0	8/20/2002	10	2 U			27.3					
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	1 U			18.9					
SB-318(D)	SB-318-D-10.0	8/20/2002	10	1 U			10.1					
SB-318(D)	SB-318-D-15.0	8/20/2002	15	4 U			7.2					
SB-320(D)	SB-320(D)-2	9/10/2003	2	0.2 U			0.05 U					
SB-320(D)	SB-320(D)-5	9/10/2003	5	0.2 U			0.05 U					
SB-321(D)	SB-321(D)-2	9/9/2003	2	0.2 U			1.14					
SB-321(D)	SB-321(D)-5	9/9/2003	5	1 U			14.1					
SB-322(D)	SB-322(D)-2	9/10/2003	2	0.2 U			0.05 U					
SB-322(D)	SB-322(D)-5	9/10/2003	5	0.2 U			0.05 U					
SB-323(D)	SB-323(D)-7	9/10/2003	7	0.2 U			0.05 U					
SB-324(D)	SB-324(D)-2	9/10/2003	2	0.2 U			0.05 U					
SB-324(D)	SB-324(D)-5	9/10/2003	5	0.2 U			0.05 U					
SB-324(D)	SB-324(D)-10	9/10/2003	10	0.4 U			3.43					
SB-324(D)	SB-324(D)-15	9/10/2003	15	0.2 U			0.191					
SB-324(D)	SB-324(D)-DUP	9/10/2003	15	0.2 U			1.43					
SB-325(D)	SB-325(D)-2	9/10/2003	2	0.2 U			0.05 U					
SB-325(D)	SB-325(D)-DUP	9/10/2003	2	0.2 U			0.05 U					
SB-325(D)	SB-325(D)-5	9/10/2003	5	0.2 U			0.05 U					
SB-325(D)	SB-325(D)-10	9/10/2003	10	0.2 U			0.05 U					
SB-325(D)	SB-325(D)-15	9/10/2003	15	0.2 U			0.05 U					
SB-326(D)	SB-326(D)-2	9/9/2003	2	0.2 U			0.0289					
SB-326(D)	SB-326(D)-5	9/9/2003	5	1 U			4.21					
SB-326(D)	SB-326(D)-10	9/9/2003	10	1 U			5.19					
SB-327(D)	SB-327(D)-2	9/10/2003	2	0.2 U			0.05 U					
SB-327(D)	SB-327(D)-5	9/10/2003	5	0.2 U			0.05 U					
SB-327(D)	SB-327(D)-10	9/10/2003	10	0.4 U			1.22					
SB-327(D)	SB-327(D)-15	9/10/2003	15	1 U			7.49					
SB-328(D)	SB-328(D)-2	9/10/2003	2	0.2 U			0.05 U					
SB-328(D)	SB-328(D)-5	9/10/2003	5	0.2 U			0.037 J					
SB-328(D)	SB-328(D)-10	9/10/2003	10	2 U			12.4					
SB-328(D)	SB-328(D)-15	9/10/2003	15	0.2 U			0.153					
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5									

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5									
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5									
SB-401(F)	SB-401(F)-20	8/23/2002	20									
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	0.01 U			0.000871					
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5									
SB-402(F)	SB-402(F)-20	8/23/2002	20									
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5									
SB-404(F)	SB-404(F)-20	8/22/2002	20									
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5									
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	0.2 U			2.13					
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5									
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5									
SB-406(F)	SB-406(F)-8	8/22/2002	8									
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5									
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7									
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	0.4 U J			3.68 J					
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5									
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.01 U			0.001 U					
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5									
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5									
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5									
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5									
SB-409(F)	SB-409(F)-5	8/22/2002	5									
SB-410(F)	SB-410(F)-2'	3/31/2004	2	0.2 U			0.05 U					
SB-410(F)	SB-410(F)-4'	3/31/2004	4	0.2 U			0.05 U					
SB-410(F)	SB-410(F)-9'	3/31/2004	9	0.2 U			0.05 U					
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10									
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6									
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10									
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10									
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10									
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11									
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10									
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10									
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10									
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10									
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10									
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10									
SB-600(N)	SB-600(N)-7	9/13/2002	7									
SB-601(N)	SB-601(N)-3	9/13/2002	3	0.2 U			0.05 U					
SB-601(N)	SB-601(N)-7	9/13/2002	7	20 U			34.2					

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-3	9/13/2002	3									
SB-602(N)	SB-602(N)-7	9/13/2002	7	10 U			91.3					
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7	10 U			19.2					
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-604(N)	SB-604(N)-3	9/13/2002	3									
SB-604(N)	SB-604(N)-7	9/13/2002	7	4 U			57.9					
SB-605(N)	SB-605(N)-3	9/13/2002	3	0.2 U			2.34					
SB-605(N)	SB-605(N)-7	9/13/2002	7	10 U			72.2					
SB-606(N)	SB-606(N)-3	9/13/2002	3									
SB-606(N)	SB-606(N)-7	9/13/2002	7									
SB-607(N)	SB-607(N)-11	9/13/2002	11									
SB-608(N)	SB-608(N)-3	9/13/2002	3	0.2 U			0.05 U					
SB-608(N)	SB-608(N)-6	9/13/2002	6	0.2 U			0.343					
SB-609(N)	SB-609(N)-3	9/13/2002	3	0.2 U			0.05 U					
SB-609(N)	SB-609(N)-7	9/13/2002	7	0.2 U			0.05 U					
SB-612(N)	SB-612 (N)-7	9/12/2002	7	10 U			71.5					
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5									
SB-614(N)	SB-614 (N)-7	9/12/2002	7									
SB-615(N)	SB-615 (N)-7	9/12/2002	7									
SB-616(N)	SB-616 (N)-7	9/12/2002	7									
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.2 U			0.05 U					
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5									
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5									
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1 U	15	1.65 U	17.9	29	1 U	1 U	1 U	1 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.2 U			0.05 U					
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-11	9/12/2002	11	2 U			36.7					
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-620(N)	SB-620 (N)-3	9/12/2002	3									
SB-620(N)	SB-620 (N)-7	9/12/2002	7	10 U			14.3					
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-621(N)	SB-621 (N)-7	9/12/2002	7									
SB-622(N)	SB-622 (N)-2	9/12/2002	2									
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7	2 U			12.9					
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-624(N)	SB-624 (N)-2	9/12/2002	2									

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.5 U	8.89	3.3 U	6.5	7.89	4.88	0.5 U	0.5 U	0.5 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-2	9/12/2002	2									
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.2 U			0.05 U					
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-10	9/12/2002	10									
SB-626(N)	SB-626 (N)-7	9/12/2002	7	10 U			33.8					
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-627(N)	SB-627(N)-2	8/28/2003	2	0.2 U			0.05 U					
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	2 U			7.18					
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	2 U			16.6					
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-700(P)	SB-700(P)-3	8/21/2002	3									
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.1 U	2.93		1.4	0.947	0.795	0.1 U	0.1 U	0.1 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5									
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.00165 B
SB-701(P)	SB-701(P)-2	8/20/2002	2									
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.00347 B
SB-701(P)	SB-701(P)-11	8/20/2002	11									
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.01 U	0.000418 J		0.00315	0.000583 J	0.001 U	0.005 U	0.001 U	0.001 U JB
SB-701(P)	SB-701(P)-12	8/20/2002	12									
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-702(P)	SB-702(P)-2	8/21/2002	2									
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U JB
SB-702(P)	SB-702(P)-11	8/21/2002	11									
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.01 U	0.000835 J		0.00106	0.000632 J	0.000248 J	0.005 U	0.001 U	U B
SB-703(P)	SB-703(P)-2	8/21/2002	2									
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.01 U	0.000233 J		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-703(P)	SB-703(P)-10	8/21/2002	10									
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-704(P)	SB-704(P)-2	8/21/2002	2									
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-704(P)	SB-704(P)-11	8/21/2002	11									
SB-705(P)	SB-705(P)-3	8/20/2002	3									
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5									
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5									
SB-705(P)	SB-705(P)-12	8/20/2002	12									
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5									
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.01 U	0.001 U		0.001 U	0.000228 J	0.001 U	0.005 U	0.001 U	U B
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5									
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5									
SB-706(P)	SB-706(P)-12	8/21/2002	12									

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2									
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.000208 J
SB-707(P)	SB-707(P)-10	8/21/2002	10									
SB-708(P)	SB-708(P)-3	8/20/2002	3									
SB-708(P)	SB-708(P)-10	8/20/2002	10									
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-709(P)	SB-709(P)-3	8/21/2002	3									
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	
SB-709(P)	SB-709(P)-10	8/21/2002	10									
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-710(P)	SB-710(P)-3	8/21/2002	3									
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.01 U	0.001 U		0.000273	0.000344	0.001 U	0.005 U	0.001 U	U B
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.01 U	0.001 U		0.001 U	0.000215 J	0.001 U	0.005 U	0.001 U	
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-711(P)	SB-711(P)-3	8/21/2002	3									
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	U B
SB-711(P)	SB-711(P)-10	8/21/2002	10									
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.01 U	0.000261 J		0.001 U	0.00199	0.001 U	0.005 U	0.001 U	U B
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.01 U	0.000326		0.00049	U B	0.001 U	0.005 U	0.001 U	
SB-712(P)	SB-712(P)-2	8/21/2002	2									
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.01 U	0.001 U		0.000191 J	0.00305	0.001 U	0.005 U	0.001 U	U B
SB-712(P)	SB-712(P)-10	8/21/2002	10									
SB-713(P)	SB-713(P)-2	8/21/2002	2									
SB-713(P)	SB-713(P)-10	8/21/2002	10									
SB-714(P)	SB-714(P)-2	8/21/2002	2									
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5									
SB-714(P)	SB-714(P)-10	8/21/2002	10	4 U			34.4					
SB-714(P)	SB-714(P)-10	8/21/2002	10									
SB-715(P)	SB-715(P)-3	8/21/2002	3									
SB-715(P)	SB-715(P)-7	8/21/2002	7									
SB-715(P)	SB-715(P)-11	8/21/2002	11									
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.00186 B
SB-716(P)	SB-716(P)-3	8/20/2002	3									
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U JB
SB-716(P)	SB-716(P)-10	8/20/2002	10									
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.00153 B
SB-717(P)	SB-717(P)-3	8/20/2002	3									
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U JB
SB-717(P)	SB-717(P)-10	8/20/2002	10									
SB-718(P)	SB-718(P)-2	8/21/2002	2									
SB-718(P)	SB-718(P)-10	8/21/2002	10									
SB-719(P)	SB-719(P)-5	8/23/2002	5									

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-719(P)	SB-719(P)-12	8/23/2002	12									
SB-720(P)	SB-720(P)-2	8/23/2002	2									
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5									
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5									
SB-721(P)	SB-721(P)-7'	3/31/2004	7	0.2 U			0.05 U					
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2									
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5									
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-									
SB-801(Q)	SB801(Q)-2	8/26/2002	2									
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5									
SB-801(Q)	SB801(Q)-0	8/26/2002	-									
SB-802(Q)	SB802(Q)-2	8/26/2002	2									
SB-802(Q)	SB802(Q)-9	8/26/2002	9									
SB-802(Q)	SB802(Q)-0	8/26/2002	-									
SB-803(Q)	SB803(Q)-2	8/26/2002	2									
SB-803(Q)	SB803(Q)-9	8/26/2002	9									
SB-803(Q)	SB803(Q)-0	8/26/2002	-									
SB-804(Q)	SB-804(Q)-2	8/26/2002	2									
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5									
SB-804(Q)	SB-804(Q)-0	8/26/2002	-									
SB-805(Q)	SB-805(Q)-2	8/26/2002	2									
SB-805(Q)	SB-805(Q)-10	8/26/2002	10									
SB-805(Q)	SB-805(Q)-0	8/26/2002	-									
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2									
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8									
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11									
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-									
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7									
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9									
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-									
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2									
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5									
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-									
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2									
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8									
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-									
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5									
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9									
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9									
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-									
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5									
SB-812(Q)	SB812(Q)-9	8/27/2002	9									

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-									
SB-813(Q)	SB813(Q)-5	8/27/2002	5									
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5									
SB-813(Q)	SB813(Q)-0	8/27/2002	-									
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5									
SB-814(Q)	SB814(Q)-9	8/27/2002	9									
SB-814(Q)	SB814(Q)-0	8/27/2002	-									
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5									
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5									
SB-815(Q)	SB815(Q)-0	8/27/2002	-									
SB-816(Q)	SB816(Q)-2	8/27/2002	2									
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5									
SB-816(Q)	SB816(Q)-0	8/27/2002	-									
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2									
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9									
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-									
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4									
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9									
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-									
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5									
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11									
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-									
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2									
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9									
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9									
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-									
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.1 U	0.0555 J		0.0267 J	0.1 U	0.0411 J	0.1 U	0.1 U	0.1 U
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5									
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5									
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9									
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-									
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2									
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2									
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8									
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10									
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-									
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2									
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9									
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-									
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3									
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9									
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-									
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2									

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9									
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-									
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3									
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9									
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-									
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2									
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5									
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-									
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2									
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5									
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-									
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2									
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2									
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9									
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-									
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2									
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5									
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-									
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4									
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9									
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-									
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2									
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9									
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-									
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2									
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5									
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-									
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	0.2 U			0.0129 J					
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	0.2 U			0.05 U					
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	0.2 U			0.05 U					
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	0.2 U			0.05 U					
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.01 U			0.001 U					
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.2 U			0.05 U					
SB-900(S)	SB-900(S)-12	8/26/2002	12									
SB-901(S)	SB-901 (S)-8	8/26/2002	8									
SB-901(S)	SB-901 (S)-10	8/26/2002	10									
SB-902(S)	SB-902 (S)-8	8/26/2002	8									
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.01 U			0.0228					
SB-903(S)	SB-903 (S)-8	8/26/2002	8									
SB-903(S)	SB-903 (S)-10	8/26/2002	10	1 U			0.446					
SB-903(S)	SB-903 (S)-10	8/26/2002	10									
SB-904(S)	SB-904 (S)-4	8/26/2002	4									

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Locator ID	Sample ID	Sample Date	Depth	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12	1 U			0.637					
SB-904(S)	SB-904 (S)-12	8/26/2002	12									
SB-905(S)	SB-905 (S)-4	8/26/2002	4									
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.01 U			0.001 U					
SB-905(S)	SB-905 (S)-12	8/26/2002	12									
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.01 U			0.001 U					
SB-906(S)	SB-906 (S)-12	8/27/2002	12	0.2 U			1.15					
SB-908(S)	SB-908 (S)-4	8/27/2002	4	0.2 U			0.0662					
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.01 U			0.001 U					
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.01 U			0.001 U					
SB-908(S)	SB-908 (S)-10	8/27/2002	10									
SB-909(S)	SB-909 (S)-4	8/27/2002	4									
SB-909(S)	SB-909 (S)-10	8/27/2002	10									
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.01 U			0.000257 J					
SB-910(S)	SB-910 (S)-10	8/27/2002	10									
SB-911(S)	SB-911 (S)-8	8/27/2002	8									
SB-911(S)	SB-911 (S)-10	8/27/2002	10									
SB-912(S)	SB-912(S)-2	9/3/2003	2	0.2 U			0.05 U					
SB-912(S)	SB-912(S)-7	9/3/2003	7	0.2 U			0.05 U					
SB-913(S)	SB-913(S)-2	9/3/2003	2	0.2 U			0.05 U					
SB-913(S)	SB-913(S)-7	9/3/2003	7	0.2 U			0.05 U					
SB-914(S)	SB-914(S)-2	9/3/2003	2	0.2 U			0.05 U					
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	0.2 U			0.05 U					
TP-201(C)	TP201(C)6E	8/27/2002	-	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.000184 J
TP-202(C)	TP202(C)6W	8/27/2002	-	0.01 U	0.001 U		0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.000182 J

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-	0.05 U								0.05 U
EX-2(S)	Ex-2/S-1	3/30/2004	-	0.053								0.129
EX-3(S)	Ex-3/S-1	3/31/2004	-	0.05 U								0.05 U
EX-4(S)	Ex-4/S-1	3/29/2004	-	0.05 U								0.05 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	0.05 U								0.1 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	0.05 U								0.1 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	0.05 U								0.1 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	0.05 U								0.1 U
SB-005(A)	SB-005(A)-7	9/5/2003	7	0.05 U								0.1 U
SB-006(A)	SB-006(A)-7'	3/31/2004	7	0.832								86.9
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	1.24 J								120
SB-008(A)	SB-008(A)-2	8/26/2003	2	0.05 U								0.1 U
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	0.05 U								0.1 U
SB-009(A)	SB-009(A)-2	8/27/2003	2	0.05 U								0.1 U
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	0.245 J								1.32
SB-010(A)	SB-010(A)-2	8/27/2003	2	0.05 U								0.1 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	0.05 U								0.1 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	0.05 U								0.1 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	0.05 U								0.1 U
SB-015(A)	SB-015(A)-7	9/10/2003	7	7.4								64.6
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	0.05 U								0.1 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	0.05 U								0.1 U
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	2.38 J								134
SB-020(A)	SB-020(A)-4'	3/31/2004	4	0.05 U								0.1 U
SB-020(A)	SB-020(A)-9'	3/31/2004	9	0.05 U								0.1 U
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	0.305 U J								6.92 J
SB-027(A)	SB-027 (A)-11	9/14/2005	11	0.277 U J								6.5 J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	0.0305 U J								0.0611 U J
SB-100(C)	SB100(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-100(C)	SB100(C)20	8/22/2002	20	0.0046	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.14	
SB-101(C)	SB101(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000401 J	
SB-101(C)	SB101(C)18	8/22/2002	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000211 J	
SB-102(C)	SB102(C)1-3	8/22/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-102(C)	SB102(C)18	8/22/2002	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000229 J	
SB-103(C)	SB103(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000272 J	
SB-103(C)	SB103(C)18	8/22/2002	18	0.00082 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000941 J	
SB-104(C)	SB104(C)4	8/22/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000311 J	
SB-104(C)	SB104(C)20	8/22/2002	20	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-200(C)	SB200(C)3	8/22/2002	3									
SB-200(C)	SB200(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	

TABLE D-3

VOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-200(C)	SB200(C)6	8/22/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000231 J	
SB-201(C)	SB201(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-201(C)	SB201(C)6	8/22/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-202(C)	SB202(C)2	8/22/2002	2	0.00051 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00119 J	
SB-202(C)	SB202(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000396 J	
SB-202(C)	SB202(C)7	8/22/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-203(C)	SB203(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000248 J	
SB-203(C)	SB203(C)7	8/22/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-204(C)	SB204(C)3	8/22/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000244 J	
SB-204(C)	SB204(C)8	8/22/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-206(C)	SB206(C)-6	8/27/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-209(C)	SB209(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-211(C)	SB211(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-213(C)	SB213(C)-4	8/27/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-214(C)	SB214(C)-5	8/27/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-215(C)	SB215(C)-5	8/27/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-216(C)	SB216(C)-3	8/27/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-217(C)	SB217(C)-3	8/28/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-219(C)	SB219(C)-4	8/28/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.001 U	0.001 U	0.001 U	0.000655 J	0.001 U	0.02 U	0.001 U	0.002 U	
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.001 U	0.001 U	0.001 U	0.00419	0.001 U	0.02 U	0.001 U	0.000868 J	

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VOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.001 U	0.001 U	0.001 U	0.00406	0.001 U	0.02 U	0.001 U	0.00039 J	
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.001 U	0.001 U	0.001 U	0.000398 J	0.001 U	0.02 U	0.001 U	0.002 U	
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00076 J	
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00219	
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00062 J	
SB-253(C)	SB-253(C)-2	9/4/2003	2	0.05 U								0.1 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	0.05 U								0.1 U
SB-254(C)	SB-254(C)-2	9/4/2003	2	0.05 U								0.1 U
SB-254(C)	SB-254(C)-7	9/4/2003	7	0.05 U								0.1 U
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	0.0237 J								0.1 U
SB-255(C)	SB-255(C)-7	9/4/2003	7	0.0189 J								0.1 U
SB-256(C)	SB-256 (c) 6	3/31/2004	6	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	0.2 U	
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	0.1 U								1.39
SB-304(D)	SB-304-D-2.0	8/19/2002	2	0.1 U								3.52
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	0.05 U								0.78
SB-304(D)	SB-304-D-5.0	8/19/2002	5	0.1 U								3.92
SB-305(D)	SB-305-D-2.0	8/19/2002	2	0.1 U								2.56
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	0.05 U								0.249
SB-306(D)	SB-306-D-2.0	8/19/2002	2	0.114								7.72
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	0.271								2.57
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.001 U								0.002 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.05 U								0.1 U
SB-309(D)	SB-309-D-2.0	8/19/2002	2	0.234								7.66
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.001 U								0.00152 J
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.05 U								0.1 U
SB-310(D)	SB-310-D-2.0	8/19/2002	2	0.05 U								1.34
SB-310(D)	SB-310-D-5.0	8/19/2002	5	0.442								32
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.001 U								0.000431 J
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.0119 J								0.1 U
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.001 U								0.000784 J
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.05 U								0.1 U
SB-313(D)	SB-313-D-5.0	8/20/2002	5	0.0201 J								8.46
SB-313(D)	SB-313-D-18.0	8/20/2002	18	0.05 U								1.33
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.0051								0.378

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VOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.05 U								0.429
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.00265								0.0257
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.05 U								0.1 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15	0.001 U								0.0009 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15	0.05 U								0.1 U
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.0009 J								0.00494
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.05 U								0.1 U
SB-316(D)	SB-316-D-5.0	8/20/2002	5	0.25 U								69.8
SB-316(D)	SB-D-DUP-3	8/20/2002	5	0.0605 J								38
SB-316(D)	SB-316-D-10.0	8/20/2002	10	12.7								304
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	0.427								63.3
SB-318(D)	SB-318-D-10.0	8/20/2002	10	0.0961 J								80
SB-318(D)	SB-318-D-15.0	8/20/2002	15	0.305 J								73.8
SB-320(D)	SB-320(D)-2	9/10/2003	2	0.05 U								0.1 U
SB-320(D)	SB-320(D)-5	9/10/2003	5	0.05 U								0.1 U
SB-321(D)	SB-321(D)-2	9/9/2003	2	0.0933								4.15
SB-321(D)	SB-321(D)-5	9/9/2003	5	1.45								31.6
SB-322(D)	SB-322(D)-2	9/10/2003	2	0.05 U								0.1 U
SB-322(D)	SB-322(D)-5	9/10/2003	5	0.05 U								0.1 U
SB-323(D)	SB-323(D)-7	9/10/2003	7	0.05 U								0.1 U
SB-324(D)	SB-324(D)-2	9/10/2003	2	0.05 U								0.1 U
SB-324(D)	SB-324(D)-5	9/10/2003	5	0.05 U								0.1 U
SB-324(D)	SB-324(D)-10	9/10/2003	10	0.1 U								1.32
SB-324(D)	SB-324(D)-15	9/10/2003	15	0.05 U								0.179
SB-324(D)	SB-324(D)-DUP	9/10/2003	15	0.0457 J								1.39
SB-325(D)	SB-325(D)-2	9/10/2003	2	0.05 U								0.1 U
SB-325(D)	SB-325(D)-DUP	9/10/2003	2	0.05 U								0.1 U
SB-325(D)	SB-325(D)-5	9/10/2003	5	0.05 U								0.1 U
SB-325(D)	SB-325(D)-10	9/10/2003	10	0.05 U								0.1 U
SB-325(D)	SB-325(D)-15	9/10/2003	15	0.05 U								0.1 U
SB-326(D)	SB-326(D)-2	9/9/2003	2	0.0744								0.1 U
SB-326(D)	SB-326(D)-5	9/9/2003	5	0.25 U								19.4
SB-326(D)	SB-326(D)-10	9/9/2003	10	0.0752								23.3
SB-327(D)	SB-327(D)-2	9/10/2003	2	0.05 U								0.1 U
SB-327(D)	SB-327(D)-5	9/10/2003	5	0.05 U								0.1 U
SB-327(D)	SB-327(D)-10	9/10/2003	10	0.1 U								0.652
SB-327(D)	SB-327(D)-15	9/10/2003	15	0.0932 J								7.42
SB-328(D)	SB-328(D)-2	9/10/2003	2	0.05 U								0.1 U
SB-328(D)	SB-328(D)-5	9/10/2003	5	0.05 U								0.037 J
SB-328(D)	SB-328(D)-10	9/10/2003	10	0.211 J								0.385 J
SB-328(D)	SB-328(D)-15	9/10/2003	15	0.05 U								0.1 U
SB-400(F)	SB-400(F)-2.5	8/22/2002	2.5	0.05 U								0.05 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoro methane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-400(F)	SB-400(F)-5	8/22/2002	5	0.05 U J								0.05 U J
SB-401(F)	SB-401(F)-2.5	8/23/2002	2.5	0.05 U J								0.05 U J
SB-401(F)	SB-401(F)-20	8/23/2002	20	0.05 U								0.05 U
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	0.05 U								0.05 U
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5	0.00357								0.0108
SB-402(F)	SB-402(F)-20	8/23/2002	20	0.05 U J								0.05 U J
SB-404(F)	SB-404(F)-2.5	8/22/2002	2.5	0.05 U								0.05 U
SB-404(F)	SB-404(F)-20	8/22/2002	20	0.05 U								0.0557
SB-405(F)	SB-405(F)-2.5	8/22/2002	2.5	0.05 U								0.05 U
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	0.05 U								3.78
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5	0.1 U J								0.708 J
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5	0.05 U								0.05 U
SB-406(F)	SB-406(F)-8	8/22/2002	8	0.05 U J								0.05 U J
SB-407(F)	SB-407(F)-2.5	8/22/2002	2.5	0.05 U								0.05 U
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7	1.47								4.68
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	0.1 U J								1.21 J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	1 U J								6.01 J
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.001 U								0.002 U
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.05 U								0.05 U
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5	0.05 U								0.112
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5	0.05 U J								0.05 U J
SB-409(F)	SB-409(F)-2.5	8/22/2002	2.5	0.05 U								0.05 U
SB-409(F)	SB-409(F)-5	8/22/2002	5	0.05 U								0.05 U
SB-410(F)	SB-410(F)-2'	3/31/2004	2	0.05 U								0.1 U
SB-410(F)	SB-410(F)-4'	3/31/2004	4	0.05 U								0.1 U
SB-410(F)	SB-410(F)-9'	3/31/2004	9	0.05 U								0.1 U
SB-500(M)	SB-500 (M) 8-12	8/29/2002	10	0.05 U								0.05 U J
SB-501(M)	SB-501 (M) 4-8	8/29/2002	6	0.05 U J								0.604
SB-501(M)	SB-501 (M) 8-12	8/29/2002	10	2 U J								47.1
SB-502(M)	SB-502 (M) 8-12	8/29/2002	10	0.2 U J								0.494
SB-503(M)	SB-503 (M) 8-12	8/29/2002	10	0.5 U J								0.5 U
SB-504(M)	SB-504 (M) 10-12	8/29/2002	11	0.05 U J								0.05 U J
SB-505(M)	SB-505 (M) 8-12	8/29/2002	10	0.5 U								0.5 U J
SB-506(M)	SB-506 (M) 8-12	8/29/2002	10	2.05								43
SB-507(M)	SB-507 (M) 8-12	8/29/2002	10	1 U J								4.38
SB-508(M)	SB-508 (M) 8-12	8/29/2002	10	2 U J								98.7
SB-509(M)	SB-509 (M) 8-12	8/29/2002	10	0.05 U J								0.05 U J
SB-510(M)	SB-510 (M) 8-12	8/29/2002	10	2 U J								17.6
SB-600(N)	SB-600(N)-7	9/13/2002	7	5 U								171
SB-601(N)	SB-601(N)-3	9/13/2002	3	0.05 U								0.1 U
SB-601(N)	SB-601(N)-7	9/13/2002	7	23.2								482

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Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoro methane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-601(N)	SB-601(N)-7	9/13/2002	7	33.9								426
SB-602(N)	SB-602(N)-3	9/13/2002	3	0.05 U								0.05 U
SB-602(N)	SB-602(N)-7	9/13/2002	7	169								1160
SB-602(N)	SB-602(N)-7	9/13/2002	7	1 U								22.5
SB-603(N)	SB-603(N)-7	9/13/2002	7	15.6								253
SB-603(N)	SB-603(N)-7	9/13/2002	7	34.5								393
SB-604(N)	SB-604(N)-3	9/13/2002	3	0.05 U								0.05 U
SB-604(N)	SB-604(N)-7	9/13/2002	7	9.61								172
SB-605(N)	SB-605(N)-3	9/13/2002	3	0.0785								14.3
SB-605(N)	SB-605(N)-7	9/13/2002	7	2.5 U								333
SB-606(N)	SB-606(N)-3	9/13/2002	3	0.05 U								0.05 U
SB-606(N)	SB-606(N)-7	9/13/2002	7	0.05 U								0.05 U
SB-607(N)	SB-607(N)-11	9/13/2002	11	0.05 U								0.05 U
SB-608(N)	SB-608(N)-3	9/13/2002	3	0.05 U								0.1 U
SB-608(N)	SB-608(N)-6	9/13/2002	6	0.05 U								0.1 U
SB-609(N)	SB-609(N)-3	9/13/2002	3	0.05 U								0.1 U
SB-609(N)	SB-609(N)-7	9/13/2002	7	0.05 U								0.1 U
SB-612(N)	SB-612 (N)-7	9/12/2002	7	42.6								931
SB-612(N)	SB-612 (N)-7	9/12/2002	7	19.2								478
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5	7.49								181
SB-614(N)	SB-614 (N)-7	9/12/2002	7	4.57								79.9
SB-615(N)	SB-615 (N)-7	9/12/2002	7	4.43								156
SB-616(N)	SB-616 (N)-7	9/12/2002	7	5 U								207
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.05 U								0.05 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.05 U								0.1 U
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5	0.05 U								0.05 U
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5	0.05 U								0.106
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1 U	1 U	1 U	1 U	1 U	10 U	1 U	132	137
SB-618(N)	SB-618 (N)-7	9/12/2002	7	4.61								
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.05 U								0.1 U
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.05 U								0.05 U
SB-619(N)	SB-619 (N)-11	9/12/2002	11	2.65								287
SB-619(N)	SB-619 (N)-11	9/12/2002	11	0.05 U								0.628
SB-620(N)	SB-620 (N)-3	9/12/2002	3	0.05 U								0.05 U
SB-620(N)	SB-620 (N)-7	9/12/2002	7	2.5 U								121
SB-620(N)	SB-620 (N)-7	9/12/2002	7	5 U								96.7
SB-621(N)	SB-621 (N)-7	9/12/2002	7	0.05 U								0.05 U
SB-622(N)	SB-622 (N)-2	9/12/2002	2	0.05 U								0.05 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00515	0.05 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.05 U								
SB-623(N)	SB-623 (N)-7	9/12/2002	7	1 U								17.4
SB-623(N)	SB-623 (N)-7	9/12/2002	7	0.5 U								41.5
SB-624(N)	SB-624 (N)-2	9/12/2002	2	0.05 U								0.05 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.768	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	16.7	
SB-624(N)	SB-624 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-2	9/12/2002	2	0.05 U								0.05 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.05 U								0.05 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.05 U								0.1 U
SB-625(N)	SB-625 (N)-10	9/12/2002	10	0.05 U								0.0989
SB-626(N)	SB-626 (N)-7	9/12/2002	7	2.5 U								295
SB-626(N)	SB-626 (N)-7	9/12/2002	7	5 U								195
SB-627(N)	SB-627(N)-2	8/28/2003	2	0.0302 J								0.1 U
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	0.5 U								37.9
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	0.5 U								63.8
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	0.05 U
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.05 U								
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	2 U	0.1 U	0.1 U	0.1 U	0.1 U		0.1 U	5.71	16
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.1 U								
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	0.05 U
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.05 U								
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000335 J	0.05 U
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.05 U								
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.00042 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.0193	0.05 U
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.05 U								
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00151 J	0.05 U
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.05 U								
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000415 J	0.05 U
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.05 U								
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.00089 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00593	0.05 U
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.05 U								
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000525 J	0.05 U
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.05 U								
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00118 J	0.05 U
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.05 U								
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	0.05 U J-
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.05 U J-								
SB-705(P)	SB-705(P)-3	8/20/2002	3	0.05 U								0.05 U
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	0.05 U								0.05 U
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	0.05 U								0.05 U
SB-705(P)	SB-705(P)-12	8/20/2002	12	0.05 U J-								0.05 U J-
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5	0.05 U								0.05 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.0007 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00158 J	0.05 U J-
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.05 U J-								
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	0.05 U								0.05 U
SB-706(P)	SB-706(P)-12	8/21/2002	12	0.05 U								U B

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-707(P)	SB-707(P)-2	8/21/2002	2	0.05 U								0.05 U
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	0.05 U
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.05 U								
SB-708(P)	SB-708(P)-3	8/20/2002	3	0.05 U								0.05 U
SB-708(P)	SB-708(P)-10	8/20/2002	10	0.05 U								0.05 U
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000761 J	0.05 U
SB-709(P)	SB-709(P)-3	8/21/2002	3	0.05 U								
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.00031 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000601 J	0.05 U
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000505	
SB-709(P)	SB-709(P)-10	8/21/2002	10	0.05 U								
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00174 J	0.05 U
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.05 U								
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.00098	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00317	
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5	0.00057 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00288	
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00165 J	0.05 U
SB-711(P)	SB-711(P)-3	8/21/2002	3	0.05 U								
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00172 J	0.05 U
SB-711(P)	SB-711(P)-10	8/21/2002	10	0.05 U								
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.00075 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.0101	0.05 U
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.00042	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00595	
SB-712(P)	SB-712(P)-2	8/21/2002	2	0.05 U								
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.00098 J	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.00808	0.0763
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.05 U								
SB-713(P)	SB-713(P)-2	8/21/2002	2	0.05 U								0.05 U
SB-713(P)	SB-713(P)-10	8/21/2002	10	0.05 U								0.05 U
SB-714(P)	SB-714(P)-2	8/21/2002	2	0.05 U								0.05 U
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5	2 U								72.7
SB-714(P)	SB-714(P)-10	8/21/2002	10	1 U								259
SB-714(P)	SB-714(P)-10	8/21/2002	10	5 U								344
SB-715(P)	SB-715(P)-3	8/21/2002	3	0.05 U J-								0.05 U J-
SB-715(P)	SB-715(P)-7	8/21/2002	7	0.05 U								0.21
SB-715(P)	SB-715(P)-11	8/21/2002	11	0.05 U								0.05 U
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000244 J	0.05 U
SB-716(P)	SB-716(P)-3	8/20/2002	3	0.05 U								
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.000249 J	0.05 U
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.05 U								
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	0.05 U
SB-717(P)	SB-717(P)-3	8/20/2002	3	0.05 U								
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	0.05 U
SB-717(P)	SB-717(P)-10	8/20/2002	10	0.05 U								
SB-718(P)	SB-718(P)-2	8/21/2002	2	0.05 U								0.05 U
SB-718(P)	SB-718(P)-10	8/21/2002	10	0.05 U								0.05 U
SB-719(P)	SB-719(P)-5	8/23/2002	5	0.05 U								0.05 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene		trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes	
			feet	mg/kg		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
SB-719(P)	SB-719(P)-12	8/23/2002	12	0.05 U	J-								0.05 U	J-
SB-720(P)	SB-720(P)-2	8/23/2002	2	0.05 U									0.0628	B
SB-720(P)	SB-720(P)-8.5	8/23/2002	8.5	5 U									104	
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5	5 U									125	
SB-721(P)	SB-721(P)-7'	3/31/2004	7	0.05 U									0.1 U	
SB-800(Q)	SB-800 (Q)-2	8/27/2002	2	0.05 U									0.05 U	
SB-800(Q)	SB-800 (Q)-10.5	8/27/2002	10.5	0.05	J/J								0.05	J/J
SB-800(Q)	SB-800 (Q)-0	8/27/2002	-	0.05 U									0.05 U	
SB-801(Q)	SB801(Q)-2	8/26/2002	2	0.05 U									0.05 U	
SB-801(Q)	SB801(Q)-9.5	8/26/2002	9.5	0.05 U									0.05 U	
SB-801(Q)	SB801(Q)-0	8/26/2002	-	0.05 U									0.05 U	
SB-802(Q)	SB802(Q)-2	8/26/2002	2	0.05 U									0.05 U	
SB-802(Q)	SB802(Q)-9	8/26/2002	9	0.05 U									0.05 U	
SB-802(Q)	SB802(Q)-0	8/26/2002	-	0.05 U									0.05 U	
SB-803(Q)	SB803(Q)-2	8/26/2002	2	0.05 U									0.05 U	
SB-803(Q)	SB803(Q)-9	8/26/2002	9	0.05 U									0.05 U	
SB-803(Q)	SB803(Q)-0	8/26/2002	-	0.05 U									0.05 U	
SB-804(Q)	SB-804(Q)-2	8/26/2002	2	0.05 U									0.05 U	
SB-804(Q)	SB-804(Q)-8.5	8/26/2002	8.5	0.05 U									0.05 U	
SB-804(Q)	SB-804(Q)-0	8/26/2002	-	0.05 U									0.05 U	
SB-805(Q)	SB-805(Q)-2	8/26/2002	2	0.05 U									1.1	
SB-805(Q)	SB-805(Q)-10	8/26/2002	10	0.05 U									0.05 U	
SB-805(Q)	SB-805(Q)-0	8/26/2002	-	0.05 U									0.05 U	
SB-806(Q)	SB-806 (Q)-2	8/28/2002	2	0.05 U									0.05 U	
SB-806(Q)	SB-806 (Q)-8	8/28/2002	8	0.05 U									0.05 U	
SB-806(Q)	SB-806 (Q)-11	8/28/2002	11	0.05 U									0.05 U	
SB-806(Q)	SB-806 (Q)-0	8/28/2002	-	0.05 U									0.05 U	
SB-807(Q)	SB-807 (Q)-7	8/28/2002	7	1.82	J								57.9	J
SB-807(Q)	SB-807 (Q)-9	8/28/2002	9	0.0856									0.778	
SB-807(Q)	SB-807 (Q)-0	8/28/2002	-	0.05 U									0.05 U	
SB-809(Q)	SB-809 (Q)-2	8/28/2002	2	0.05 U									0.05 U	
SB-809(Q)	SB-809 (Q)-8.5	8/28/2002	8.5	0.05	J/J								0.05	J/J
SB-809(Q)	SB-809 (Q)-0	8/28/2002	-	0.05 U									0.05 U	
SB-810(Q)	SB-810 (Q)-2	8/28/2002	2	0.05 U									0.05 U	
SB-810(Q)	SB-810 (Q)-8	8/28/2002	8	0.05 U									0.05 U	
SB-810(Q)	SB-810 (Q)-0	8/28/2002	-	0.05 U									0.05 U	
SB-811(Q)	SB-811 (Q)-5	8/27/2002	5	0.05 U									0.05 U	
SB-811(Q)	SB-811 (Q)-9	8/27/2002	9	0.05	J/J								0.05	J/J
SB-811(Q)	SB-811 (Q)-9C	8/27/2002	9	0.05	J/J								0.05	J/J
SB-811(Q)	SB-811 (Q)-0	8/27/2002	-	0.05 U									0.05 U	
SB-812(Q)	SB812(Q)-4.5	8/27/2002	4.5	0.05 U									0.05 U	
SB-812(Q)	SB812(Q)-9	8/27/2002	9	0.05 U									0.05 U	

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-812(Q)	SB812(Q)-0	8/27/2002	-	0.05 U								0.05 U
SB-813(Q)	SB813(Q)-5	8/27/2002	5	0.05 U								0.05 U
SB-813(Q)	SB813(Q)-9.5	8/27/2002	9.5	0.05 U								0.05 U
SB-813(Q)	SB813(Q)-0	8/27/2002	-	0.05 U R								0.05 U R
SB-814(Q)	SB814(Q)-4.5	8/27/2002	4.5	0.05 U								0.05 U
SB-814(Q)	SB814(Q)-9	8/27/2002	9	0.05 U								0.05 U
SB-814(Q)	SB814(Q)-0	8/27/2002	-	0.05 U								0.05 U
SB-815(Q)	SB815(Q)-4.5	8/27/2002	4.5	0.05 U								0.05 U
SB-815(Q)	SB815(Q)-9.5	8/27/2002	9.5	0.05 U								0.05 U
SB-815(Q)	SB815(Q)-0	8/27/2002	-	0.05 U								0.05 U
SB-816(Q)	SB816(Q)-2	8/27/2002	2	0.05 U								0.05 U
SB-816(Q)	SB816(Q)-9.5	8/27/2002	9.5	0.05 U								0.05 U
SB-816(Q)	SB816(Q)-0	8/27/2002	-	0.05 U								0.05 U
SB-817(Q)	SB-817 (Q)-2	8/28/2002	2	0.05 U								0.05 U
SB-817(Q)	SB-817 (Q)-9	8/28/2002	9	0.05 U								0.05 U
SB-817(Q)	SB-817 (Q)-0	8/28/2002	-	0.05 U								0.05 U
SB-818(Q)	SB-818 (Q)-4	8/28/2002	4	0.05 U								0.05 U
SB-818(Q)	SB-818 (Q)-9	8/28/2002	9	0.05 U								0.05 U
SB-818(Q)	SB-818 (Q)-0	8/28/2002	-	0.05 U								0.05 U
SB-819(Q)	SB-819 (Q)-5	8/28/2002	5	0.05 U								0.05 J/J
SB-819(Q)	SB-819 (Q)-11	8/28/2002	11	0.05 U								0.05 U
SB-819(Q)	SB-819 (Q)-0	8/28/2002	-	0.05 U								0.05 U
SB-820(Q)	SB-820 (Q)-2	8/29/2002	2	0.05 U								0.05 U
SB-820(Q)	SB-820 (Q)-9	8/29/2002	9	0.05 U								0.05 U
SB-820(Q)	SB-820 (Q)-9C	8/29/2002	9	2.66 J								31.7 J
SB-820(Q)	SB-820 (Q)-0	8/29/2002	-	0.05 U								0.05 U
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U	0.1 U	0.0144 J	
SB-821(Q)	SB-821 (Q)-5	8/29/2002	5	6.51 J								70.7 J
SB-821(Q)	SB-821 (Q)-5C	8/29/2002	5	1.57 J								22.3 J
SB-821(Q)	SB-821 (Q)-9	8/29/2002	9	0.05 U								0.05 U
SB-821(Q)	SB-821 (Q)-0	8/29/2002	-	0.05 U								0.05 U
SB-822(Q)	SB-822 (Q)-2	8/29/2002	2	0.05 U								0.05 U
SB-822(Q)	SB-822 (Q)-2C	8/29/2002	2	0.05 U								0.05 U
SB-822(Q)	SB-822 (Q)-8	8/29/2002	8	4.58 J								62.9 J
SB-822(Q)	SB-822 (Q)-10	8/29/2002	10	0.05 U								0.05 J/J
SB-822(Q)	SB-822 (Q)-0	8/29/2002	-	0.05 U								0.05 U
SB-823(Q)	SB-823 (Q)-2	8/27/2002	2	0.05 U								0.05 U
SB-823(Q)	SB-823 (Q)-9	8/27/2002	9	0.05 U								0.05 U
SB-823(Q)	SB-823 (Q)-0	8/27/2002	-	0.05 U								0.05 U
SB-824(Q)	SB-824 (Q)-3	8/27/2002	3	0.05 U								0.05 U
SB-824(Q)	SB-824 (Q)-9	8/27/2002	9	0.05 U								0.05 U
SB-824(Q)	SB-824 (Q)-0	8/27/2002	-	0.05 U								0.05 U
SB-825(Q)	SB-825 (Q)-2	8/27/2002	2	0.05 U								0.05 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-825(Q)	SB-825 (Q)-9	8/27/2002	9	0.05 J/J								0.05 J/J
SB-825(Q)	SB-825 (Q)-0	8/27/2002	-	0.05 U								0.05 U
SB-826(Q)	SB-826 (Q)-3	8/27/2002	3	0.05 U								0.05 U
SB-826(Q)	SB-826 (Q)-9	8/27/2002	9	0.05 U								0.05 U
SB-826(Q)	SB-826 (Q)-0	8/27/2002	-	0.05 U								0.05 U
SB-827(Q)	SB-827 (Q)-2	8/29/2002	2	0.0514								0.05 U
SB-827(Q)	SB-827 (Q)-6.5	8/29/2002	6.5	0.05 U								0.05 U
SB-827(Q)	SB-827 (Q)-0	8/29/2002	-	0.05 U								0.05 U
SB-828(Q)	SB-828 (Q)-2	8/28/2002	2	0.05 U								0.05 U
SB-828(Q)	SB-828 (Q)-8.5	8/28/2002	8.5	0.05 J/J								0.05 J/J
SB-828(Q)	SB-828 (Q)-0	8/28/2002	-	0.05 J/J								0.05 J/J
SB-829(Q)	SB-829 (Q)-2	8/28/2002	2	0.05 U								0.05 U
SB-829(Q)	SB-829 (Q)-2C	8/28/2002	2	0.05 U								0.05 U
SB-829(Q)	SB-829 (Q)-9	8/28/2002	9	0.05 U								0.05 U
SB-829(Q)	SB-829 (Q)-0	8/28/2002	-	0.05 U								0.05 U
SB-830(Q)	SB-830 (Q)-2	8/28/2002	2	0.05 U								0.05 U
SB-830(Q)	SB-830 (Q)-8.5	8/28/2002	8.5	0.05 U								0.05 U
SB-830(Q)	SB-830 (Q)-0	8/28/2002	-	0.05 U								0.05 U
SB-831(Q)	SB-831 (Q)-4	8/28/2002	4	0.05 U								0.05 U
SB-831(Q)	SB-831 (Q)-9	8/28/2002	9	0.05 U								0.05 U
SB-831(Q)	SB-831 (Q)-0	8/28/2002	-	0.05 U								0.05 U
SB-832(Q)	SB-832 (Q)-2	8/28/2002	2	0.05 U								0.05 U
SB-832(Q)	SB-832 (Q)-9	8/28/2002	9	0.05 U								0.05 U
SB-832(Q)	SB-832 (Q)-0	8/28/2002	-	0.05 U								0.05 U
SB-833(Q)	SB-833 (Q)-2	8/28/2002	2	0.05 U								0.05 U
SB-833(Q)	SB-833 (Q)-10.5	8/28/2002	10.5	0.05 U								0.05 U
SB-833(Q)	SB-833 (Q)-0	8/28/2002	-	0.05 U								0.05 U
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	0.05 U								0.1 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	0.05 U								0.1 U
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	0.05 U								0.1 U
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	0.05 U								0.1 U
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.001 U								0.002 U
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.05 U								0.1 U
SB-900(S)	SB-900(S)-12	8/26/2002	12	5 U								16.4
SB-901(S)	SB-901 (S)-8	8/26/2002	8	0.05 U								0.05 U
SB-901(S)	SB-901 (S)-10	8/26/2002	10	0.05 U								0.05 U
SB-902(S)	SB-902 (S)-8	8/26/2002	8	0.05 U								0.05 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.00051 J								0.029
SB-903(S)	SB-903 (S)-8	8/26/2002	8	0.05 U								0.05 U
SB-903(S)	SB-903 (S)-10	8/26/2002	10	0.25 U								0.62
SB-903(S)	SB-903 (S)-10	8/26/2002	10	0.5 U								0.5 U
SB-904(S)	SB-904 (S)-4	8/26/2002	4	0.05 U								0.05 U

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VOCs IN SOIL

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-904(S)	SB-904 (S)-12	8/26/2002	12	1 U								3.63
SB-904(S)	SB-904 (S)-12	8/26/2002	12	0.25 U								2.03
SB-905(S)	SB-905 (S)-4	8/26/2002	4	0.05 U								0.05 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.00049 J								0.002 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.05 U								0.05 U
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.001 U								0.002 U
SB-906(S)	SB-906 (S)-12	8/27/2002	12	0.05 U								2.13
SB-908(S)	SB-908 (S)-4	8/27/2002	4	0.05 U								0.385
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.001 U								0.000538 J
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.05 U								0.05 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.001 U								0.002 U
SB-909(S)	SB-909 (S)-4	8/27/2002	4	0.05 U								0.05 U
SB-909(S)	SB-909 (S)-10	8/27/2002	10	0.05 U								0.05 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.001 U								0.000911 J
SB-910(S)	SB-910 (S)-10	8/27/2002	10	0.05 U								0.05 U
SB-911(S)	SB-911 (S)-8	8/27/2002	8	0.05 U								0.05 U
SB-911(S)	SB-911 (S)-10	8/27/2002	10	0.05 U								0.05 U
SB-912(S)	SB-912(S)-2	9/3/2003	2	0.05 U								0.1 U
SB-912(S)	SB-912(S)-7	9/3/2003	7	0.05 U								0.1 U
SB-913(S)	SB-913(S)-2	9/3/2003	2	0.05 U								0.1 U
SB-913(S)	SB-913(S)-7	9/3/2003	7	0.05 U								0.1 U
SB-914(S)	SB-914(S)-2	9/3/2003	2	0.05 U								0.1 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	0.05 U								0.1 U
TP-201(C)	TP201(C)6E	8/27/2002	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	
TP-202(C)	TP202(C)6W	8/27/2002	-	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.02 U	0.001 U	0.002 U	

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00424
EX-2(S)	Ex-2/S-1	3/30/2004	-	0.0134 U	0.0134 U	0.0076 J	0.00973 J	0.00986 J	0.00631 J	0.0114 J
EX-3(S)	Ex-3/S-1	3/31/2004	-	0.067 U	0.0202 J	0.0967	0.102	0.0941	0.0592 J	0.106
EX-4(S)	Ex-4/S-1	3/29/2004	-	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	0.0134 U	0.00516 J	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5							
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5							
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5							
SB-003(A)	SB-003(A)-5	9/4/2003	5	0.0268 U	0.0268 U	0.0105 J	0.0145 J	0.0124 J	0.0135 J	0.016 J
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5							
SB-005(A)	SB-005(A)-7	9/5/2003	7	0.0134 U	0.0134 U	0.0134 U	0.00469 J	0.0134 U	0.0134 U	0.0049 J
SB-005(A)	SB-005(A)-7	9/5/2003	7							
SB-006(A)	SB-006(A)-7'	3/31/2004	7	2.47	6.7 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
SB-006(A)	SB-006(A)-7'	3/31/2004	7							
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	1.46 J	0.526	0.268 U	0.268 U	0.268 U	0.268 U	0.0797 J
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5							
SB-008(A)	SB-008(A)-2	8/26/2003	2	0.0987 J	0.207 J	2.53	2.59	3.14	1.67	3.05
SB-008(A)	SB-008(A)-2	8/26/2003	2							
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5							
SB-009(A)	SB-009(A)-2	8/27/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-009(A)	SB-009(A)-2	8/27/2003	2							
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	2.68 U	2.17 J	0.268 U	0.268 U	0.268 U	0.268 U	0.0798 J
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5							
SB-010(A)	SB-010(A)-2	8/27/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-010(A)	SB-010(A)-2	8/27/2003	2							
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5							
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5							
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5							
SB-015(A)	SB-015(A)-7	9/10/2003	7	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-015(A)	SB-015(A)-7	9/10/2003	7							
SB-016(A)	SB-016(A)-7	9/4/2003	7	0.0649 J	0.0466 J	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5							
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5							
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	0.449 J	0.22 J	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5							
SB-020(A)	SB-020(A)-4'	3/31/2004	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-020(A)	SB-020(A)-4'	3/31/2004	4							
SB-020(A)	SB-020(A)-9'	3/31/2004	9	0.00651 J	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-020(A)	SB-020(A)-9'	3/31/2004	9							
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	7.01	13.5 U	1.69 U	1.69 U	1.69 U	1.69 U	1.69 U
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5							
SB-027(A)	SB-027 (A)-11	9/14/2005	11	8.7	14.8 U	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U
SB-027(A)	SB-027 (A)-11	9/14/2005	11							
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	0.0169 U J	0.0169 U J	0.0169 U J	0.0169 U J	0.0169 U J	0.0169 U J	0.0169 U J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5							
SB-100(C)	SB100(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-100(C)	SB100(C)3	8/22/2002	3							
SB-100(C)	SB100(C)20	8/22/2002	20	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-100(C)	SB100(C)20	8/22/2002	20							
SB-101(C)	SB101(C)3	8/22/2002	3							
SB-101(C)	SB101(C)18	8/22/2002	18							
SB-102(C)	SB102(C)1-3	8/22/2002	2							
SB-102(C)	SB102(C)18	8/22/2002	18							
SB-103(C)	SB103(C)3	8/22/2002	3							
SB-103(C)	SB103(C)18	8/22/2002	18							
SB-104(C)	SB104(C)4	8/22/2002	4							
SB-104(C)	SB104(C)20	8/22/2002	20							
SB-200(C)	SB200(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-200(C)	SB200(C)3	8/22/2002	3							
SB-200(C)	SB200(C)6	8/22/2002	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-200(C)	SB200(C)6	8/22/2002	6							
SB-201(C)	SB201(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-201(C)	SB201(C)3	8/22/2002	3							
SB-201(C)	SB201(C)6	8/22/2002	6	0.0268 U	0.0268 U	0.0342	0.031	0.0188 J	0.0268 U	0.0843
SB-201(C)	SB201(C)6	8/22/2002	6							
SB-202(C)	SB202(C)2	8/22/2002	2	1.68 U	1.68 U	1.68 U	0.741 J	1.68 U	1.68 U	1.51 J

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-202(C)	SB202(C)2	8/22/2002	2							
SB-202(C)	SB202(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-202(C)	SB202(C)3	8/22/2002	3							
SB-202(C)	SB202(C)7	8/22/2002	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-202(C)	SB202(C)7	8/22/2002	7							
SB-203(C)	SB203(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-203(C)	SB203(C)3	8/22/2002	3							
SB-203(C)	SB203(C)7	8/22/2002	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-203(C)	SB203(C)7	8/22/2002	7							
SB-204(C)	SB204(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-204(C)	SB204(C)3	8/22/2002	3							
SB-204(C)	SB204(C)8	8/22/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-204(C)	SB204(C)8	8/22/2002	8							
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0268 U	0.0268 U	0.0134 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5							
SB-206(C)	SB206(C)-6	8/27/2002	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-206(C)	SB206(C)-6	8/27/2002	6							
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5							
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5							
SB-209(C)	SB209(C)-3	8/27/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-209(C)	SB209(C)-3	8/27/2002	3							
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5							
SB-211(C)	SB211(C)-3	8/27/2002	3	0.0134 U	0.0134 U	0.0134 U	0.011 J	0.00371 J	0.0134 U	0.0132 J
SB-211(C)	SB211(C)-3	8/27/2002	3							
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5							
SB-213(C)	SB213(C)-4	8/27/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-213(C)	SB213(C)-4	8/27/2002	4							
SB-214(C)	SB214(C)-5	8/27/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-214(C)	SB214(C)-5	8/27/2002	5							
SB-215(C)	SB215(C)-5	8/27/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-215(C)	SB215(C)-5	8/27/2002	5							
SB-216(C)	SB216(C)-3	8/27/2002	3	0.0117 J	0.0117 J	0.00632 J	0.00491 J	0.0134 U	0.0134 U	0.0106 J
SB-216(C)	SB216(C)-3	8/27/2002	3							
SB-217(C)	SB217(C)-3	8/28/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-217(C)	SB217(C)-3	8/28/2002	3							

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00477 J
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5							
SB-219(C)	SB219(C)-4	8/28/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-219(C)	SB219(C)-4	8/28/2002	4							
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-220(C)	SB220 (C)-5	8/28/2002	5							
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5							
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5							
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-223(C)	SB223 (C)-6	8/29/2002	6							
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-224(C)	SB224 (C)-2	8/29/2002	2							
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-225(C)	SB225 (C)-3	8/29/2002	3							
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-226(C)	SB226 (C)-3	8/29/2002	3							
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-227(C)	SB227 (C)-8	8/29/2002	8							
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.0268 U	0.0268 U	0.0268 U	0.0241 J	0.0255 J	0.0268 U	0.0189 J
SB-228(C)	SB228 (C)-4	8/29/2002	4							
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-229(C)	SB229 (C)-8	8/29/2002	8							
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-230(C)	SB230 (C)-8	8/29/2002	8							
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-231(C)	SB231 (C)-2	8/29/2002	2							
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8							
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3							
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8							
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6							
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6							
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.0152	0.0118 J	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00634 J

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-237(C)	SB 237 (C)-6	8/30/2002	6							
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-238(C)	SB 238 (C)-3	8/30/2002	3							
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-239(C)	SB-239(C)-4	9/3/2002	4							
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-240(C)	SB-240(C)-6	9/3/2002	6							
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-241(C)	SB-241(C)-5	9/3/2002	5							
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-242(C)	SB-242(C)-4	9/3/2002	4							
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-243(C)	SB-243(C)-4	9/3/2002	4							
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-244(C)	SB-244(C)-3	9/3/2002	3							
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-245(C)	SB-245(C)-5	9/3/2002	5							
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-246(C)	SB-246(C)-5	9/3/2002	5							
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-247(C)	SB-247(C)-6	9/3/2002	6							
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-250(C)	SB-250(C)-4	9/9/2002	4							
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00363 J
SB-251(C)	SB-251(C)-4	9/9/2002	4							
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-252(C)	SB-252(C)-5	9/9/2002	5							
SB-253(C)	SB-253(C)-2	9/4/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-253(C)	SB-253(C)-2	9/4/2003	2							
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5							
SB-254(C)	SB-254(C)-2	9/4/2003	2	0.02 J	0.0598 J	0.117	0.167	0.249	0.067 U	0.199
SB-254(C)	SB-254(C)-2	9/4/2003	2							
SB-254(C)	SB-254(C)-7	9/4/2003	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-254(C)	SB-254(C)-7	9/4/2003	7							
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	0.357	1.79	0.27	0.118 J	0.151 J	0.151 J	0.434
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5							
SB-255(C)	SB-255(C)-7	9/4/2003	7	7.4	3.72	4.43	5.84	3.48	3.54	5.39
SB-255(C)	SB-255(C)-7	9/4/2003	7							

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB256(C)	SB256 (c) 6	3/31/2004	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB256(C)	SB256 (c) 6	3/31/2004	6							
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	0.257	0.286	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5							
SB-304(D)	SB-304-D-2.0	8/19/2002	2	0.345	0.0478 J	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-304(D)	SB-304-D-2.0	8/19/2002	2							
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-304(D)	SB-D-DUP-0819	8/19/2002	2							
SB-304(D)	SB-304-D-5.0	8/19/2002	5	0.086	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-304(D)	SB-304-D-5.0	8/19/2002	5							
SB-305(D)	SB-305-D-2.0	8/19/2002	2	0.0702	0.032	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00442 J
SB-305(D)	SB-305-D-2.0	8/19/2002	2							
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	0.00887 J	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5							
SB-306(D)	SB-306-D-2.0	8/19/2002	2	0.494	0.0877 J	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-306(D)	SB-306-D-2.0	8/19/2002	2							
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	0.841	0.175	0.134 U	0.134 U	0.134 U	0.134 U	0.0408 J
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5							
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2							
SB-307(D)	SB-307-D-2.0	8/19/2002	2							
SB-309(D)	SB-309-D-2.0	8/19/2002	2	0.272	0.0826	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-309(D)	SB-309-D-2.0	8/19/2002	2							
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-309(D)	SB-309-D-5.0	8/19/2002	5							
SB-309(D)	SB-309-D-5.0	8/19/2002	5							
SB-310(D)	SB-310-D-2.0	8/19/2002	2	0.0115 J	0.00393 J	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00369 J
SB-310(D)	SB-310-D-2.0	8/19/2002	2							
SB-310(D)	SB-310-D-5.0	8/19/2002	5	0.325	0.0572 J	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-310(D)	SB-310-D-5.0	8/19/2002	5							
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.0268 U	0.0166 J	0.265	0.405	0.447	0.384	0.374
SB-311(D)	SB-311-D-5.0	8/19/2002	5							
SB-311(D)	SB-311-D-5.0	8/19/2002	5							
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-312(D)	SB-312-D-5.0	8/19/2002	5							
SB-312(D)	SB-312-D-5.0	8/19/2002	5							
SB-313(D)	SB-313-D-5.0	8/20/2002	5							
SB-313(D)	SB-313-D-18.0	8/20/2002	18							

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Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-2.0	8/20/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-314(D)	SB-314-D-10.0	8/20/2002	10	0.414	1.34 U	0.005 J	0.0134 U	0.0134 U	0.0134 U	0.0249
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-314(D)	SB-314-D-15.0	8/20/2002	15							
SB-314(D)	SB-314-D-15.0	8/20/2002	15							
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-315(D)	SB-315-D-2.0	8/20/2002	2							
SB-315(D)	SB-315-D-2.0	8/20/2002	2							
SB-315(D)	SB-315-D-5.0	8/20/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15							
SB-315(D)	SB-315-D-15.0	8/20/2002	15							
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-316(D)	SB-316-D-2.0	8/20/2002	2							
SB-316(D)	SB-316-D-2.0	8/20/2002	2							
SB-316(D)	SB-316-D-5.0	8/20/2002	5							
SB-316(D)	SB-D-DUP-3	8/20/2002	5	0.00889 J	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-316(D)	SB-D-DUP-3	8/20/2002	5							
SB-316(D)	SB-316-D-10.0	8/20/2002	10	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-316(D)	SB-316-D-10.0	8/20/2002	10							
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5							
SB-318(D)	SB-318-D-10.0	8/20/2002	10							
SB-318(D)	SB-318-D-15.0	8/20/2002	15							
SB-320(D)	SB-320(D)-2	9/10/2003	2							
SB-320(D)	SB-320(D)-5	9/10/2003	5							
SB-321(D)	SB-321(D)-2	9/9/2003	2							
SB-321(D)	SB-321(D)-5	9/9/2003	5							
SB-322(D)	SB-322(D)-2	9/10/2003	2							
SB-322(D)	SB-322(D)-5	9/10/2003	5							
SB-323(D)	SB-323(D)-7	9/10/2003	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-323(D)	SB-323(D)-7	9/10/2003	7							
SB-324(D)	SB-324(D)-2	9/10/2003	2							
SB-324(D)	SB-324(D)-5	9/10/2003	5							
SB-324(D)	SB-324(D)-10	9/10/2003	10							
SB-324(D)	SB-324(D)-15	9/10/2003	15							
SB-324(D)	SB-324(D)-DUP	9/10/2003	15							
SB-325(D)	SB-325(D)-2	9/10/2003	2							
SB-325(D)	SB-325(D)-DUP	9/10/2003	2							
SB-325(D)	SB-325(D)-5	9/10/2003	5							

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Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-325(D)	SB-325(D)-10	9/10/2003	10							
SB-325(D)	SB-325(D)-15	9/10/2003	15							
SB-326(D)	SB-326(D)-2	9/9/2003	2							
SB-326(D)	SB-326(D)-5	9/9/2003	5							
SB-326(D)	SB-326(D)-10	9/9/2003	10							
SB-327(D)	SB-327(D)-2	9/10/2003	2							
SB-327(D)	SB-327(D)-5	9/10/2003	5							
SB-327(D)	SB-327(D)-10	9/10/2003	10							
SB-327(D)	SB-327(D)-15	9/10/2003	15							
SB-328(D)	SB-328(D)-2	9/10/2003	2							
SB-328(D)	SB-328(D)-5	9/10/2003	5							
SB-328(D)	SB-328(D)-10	9/10/2003	10							
SB-328(D)	SB-328(D)-15	9/10/2003	15							
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5							
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5							
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5	0.0134 U	0.0134 U	0.00903 J	0.0171	0.0122 J	0.00808 J	0.0186
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7							
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	0.067 U J	0.0216 J	0.067 U J	0.067 U J	0.067 U J	0.067 U J	0.067 U J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5							
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.134 U	0.134 U	0.0134	0.0582	0.0267	0.036	0.065 J
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5							
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5							
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-410(F)	SB-410(F)-2'	3/31/2004	2							
SB-410(F)	SB-410(F)-4'	3/31/2004	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-410(F)	SB-410(F)-4'	3/31/2004	4							
SB-410(F)	SB-410(F)-9'	3/31/2004	9							
SB-600(N)	SB-600(N)-7	9/13/2002	7							
SB-601(N)	SB-601(N)-3	9/13/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-601(N)	SB-601(N)-3	9/13/2002	3							
SB-601(N)	SB-601(N)-7	9/13/2002	7	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-601(N)	SB-601(N)-7	9/13/2002	7							
SB-602(N)	SB-602(N)-3	9/13/2002	3							
SB-602(N)	SB-602(N)-7	9/13/2002	7	1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U	1 U
SB-602(N)	SB-602(N)-7	9/13/2002	7	0.565	1 U	1 U	1 U	1 U	0.1 U	0.1 U
SB-602(N)	SB-602(N)-7	9/13/2002	7							
SB-602(N)	SB-602(N)-7	9/13/2002	7							

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Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-603(N)	SB-603(N)-7	9/13/2002	7	0.134	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-603(N)	SB-603(N)-7	9/13/2002	7							
SB-603(N)	SB-603(N)-7	9/13/2002	7							
SB-604(N)	SB-604(N)-3	9/13/2002	3							
SB-604(N)	SB-604(N)-7	9/13/2002	7	0.67 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-604(N)	SB-604(N)-7	9/13/2002	7							
SB-605(N)	SB-605(N)-3	9/13/2002	3	0.0195	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-605(N)	SB-605(N)-3	9/13/2002	3							
SB-605(N)	SB-605(N)-7	9/13/2002	7	0.529	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-605(N)	SB-605(N)-7	9/13/2002	7							
SB-606(N)	SB-606(N)-3	9/13/2002	3							
SB-606(N)	SB-606(N)-7	9/13/2002	7							
SB-607(N)	SB-607(N)-11	9/13/2002	11							
SB-608(N)	SB-608(N)-3	9/13/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-608(N)	SB-608(N)-3	9/13/2002	3							
SB-608(N)	SB-608(N)-6	9/13/2002	6							
SB-609(N)	SB-609(N)-3	9/13/2002	3							
SB-609(N)	SB-609(N)-7	9/13/2002	7							
SB-612(N)	SB-612 (N)-7	9/12/2002	7	0.484	0.149	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
SB-612(N)	SB-612 (N)-7	9/12/2002	7							
SB-612(N)	SB-612 (N)-7	9/12/2002	7							
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5							
SB-614(N)	SB-614 (N)-7	9/12/2002	7							
SB-615(N)	SB-615 (N)-7	9/12/2002	7							
SB-616(N)	SB-616 (N)-7	9/12/2002	7							
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3							
SB-617(N)	SB-617 (N)-3	9/12/2002	3							
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5							
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5							
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1.65 U	1.65 U	1.65 U	1.65 U	1.65 U	1.65 U	1.65 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7							
SB-618(N)	SB-618 (N)-7	9/12/2002	7							
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-619(N)	SB-619 (N)-7	9/12/2002	7							
SB-619(N)	SB-619 (N)-7	9/12/2002	7							
SB-619(N)	SB-619 (N)-11	9/12/2002	11	0.351	0.294	0.01 U	0.01 U	0.01 U	0.01 U	0.0115
SB-619(N)	SB-619 (N)-11	9/12/2002	11							
SB-619(N)	SB-619 (N)-11	9/12/2002	11							

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Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-619(N)	SB-619 (N)-11	9/12/2002	11							
SB-620(N)	SB-620 (N)-3	9/12/2002	3							
SB-620(N)	SB-620 (N)-7	9/12/2002	7	0.758	0.558	0.0123	0.01 U	0.013	0.0109	0.0362
SB-620(N)	SB-620 (N)-7	9/12/2002	7							
SB-620(N)	SB-620 (N)-7	9/12/2002	7							
SB-620(N)	SB-620 (N)-7	9/12/2002	7							
SB-621(N)	SB-621 (N)-7	9/12/2002	7							
SB-622(N)	SB-622 (N)-2	9/12/2002	2							
SB-622(N)	SB-622 (N)-7	9/12/2002	7							
SB-622(N)	SB-622 (N)-7	9/12/2002	7							
SB-623(N)	SB-623 (N)-7	9/12/2002	7							
SB-623(N)	SB-623 (N)-7	9/12/2002	7							
SB-624(N)	SB-624 (N)-2	9/12/2002	2							
SB-624(N)	SB-624 (N)-7	9/12/2002	7	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7							
SB-625(N)	SB-625 (N)-2	9/12/2002	2							
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.0203	0.275	0.01 U	0.01 U	0.01 U	0.01 U	0.0181
SB-625(N)	SB-625 (N)-7	9/12/2002	7							
SB-625(N)	SB-625 (N)-7	9/12/2002	7							
SB-625(N)	SB-625 (N)-10	9/12/2002	10							
SB-626(N)	SB-626 (N)-7	9/12/2002	7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-626(N)	SB-626 (N)-7	9/12/2002	7							
SB-626(N)	SB-626 (N)-7	9/12/2002	7							
SB-627(N)	SB-627(N)-2	8/28/2003	2	0.067 U	0.067 U	0.0387 J	0.0577 J	0.0759	0.0433 J	0.0629 J
SB-627(N)	SB-627(N)-2	8/28/2003	2							
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	3.02 U	1.35	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5							
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5							
SB-700(P)	SB-700(P)-3	8/21/2002	3							
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.0346	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5							
SB-701(P)	SB-701(P)-2	8/20/2002	2							
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-701(P)	SB-701(P)-11	8/20/2002	11							
SB-701(P)	SB-701(P)-12	8/20/2002	12							
SB-702(P)	SB-702(P)-2	8/21/2002	2							
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U

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Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-702(P)	SB-702(P)-11	8/21/2002	11							
SB-703(P)	SB-703(P)-2	8/21/2002	2							
SB-703(P)	SB-703(P)-10	8/21/2002	10							
SB-704(P)	SB-704(P)-2	8/21/2002	2							
SB-704(P)	SB-704(P)-11	8/21/2002	11							
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5							
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00531 J
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10							
SB-708(P)	SB-708(P)-10	8/20/2002	10	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-709(P)	SB-709(P)-3	8/21/2002	3							
SB-709(P)	SB-709(P)-10	8/21/2002	10							
SB-709(P)	SB-709(P)-10	8/21/2002	10							
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.0268 U	0.0268 U	0.0268 U	0.0117 J	0.0536 U	0.0268 U	0.0368
SB-710(P)	SB-710(P)-3	8/21/2002	3							
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5							
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5							
SB-711(P)	SB-711(P)-3	8/21/2002	3							
SB-711(P)	SB-711(P)-10	8/21/2002	10							
SB-712(P)	SB-712(P)-2	8/21/2002	2							
SB-712(P)	SB-712(P)-2	8/21/2002	2							
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.215	0.62	0.326	0.151	0.324	0.268	0.698
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5	0.833	1.34 U	0.0427	0.0284	0.0289	0.0169	0.0639
SB-714(P)	SB-714(P)-10	8/21/2002	10							
SB-716(P)	SB-716(P)-3	8/20/2002	3							
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-716(P)	SB-716(P)-10	8/20/2002	10							
SB-717(P)	SB-717(P)-3	8/20/2002	3							
SB-717(P)	SB-717(P)-10	8/20/2002	10							
SB-719(P)	SB-719(P)-12	8/23/2002	12	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-720(P)	SB-720(P)-2	8/23/2002	2	0.0076 J	0.0139	0.225	0.238	0.233	0.187	0.285
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5	0.604	0.382	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7							
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.067 U	0.067 U	0.067 U	0.067 U	0.0272 J	0.067 U	0.0238 J
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-							
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-834(Q)	SB-834(Q)-2	9/5/2003	2							
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5							
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	0.0134 U	0.0134 U	0.0108 J	0.0169	0.0205	0.0162	0.0244
SB-835(Q)	SB-835(Q)-2	9/5/2003	2							
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-835(Q)	SB-835(Q)-7	9/5/2003	7							
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.0134 U	0.00544 J	0.00997 J	0.00982 J	0.0134 U	0.00397 J	0.0155
SB-900(S)	SB-900(S)-4	8/26/2002	4							
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-900(S)	SB-900(S)-12	8/26/2002	12							
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.134 U	0.027	0.067 U	0.0134 U	0.0134 U	0.0134 U	0.067 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12							
SB-903(S)	SB-903 (S)-10	8/26/2002	10	1.68 U	0.359	0.335 U	0.0134 U	0.00753 J	0.00481 J	0.335 U
SB-903(S)	SB-903 (S)-10	8/26/2002	10							
SB-904(S)	SB-904 (S)-12	8/26/2002	12	1.49	0.43	0.335 U	0.0134 U	0.067 U	0.067 U	0.335 U
SB-904(S)	SB-904 (S)-12	8/26/2002	12							
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.067 U	0.067 U	0.067 U	0.0134 U	0.0134 U	0.0134 U	0.067 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12							
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.067 U	0.067 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00707 J
SB-906(S)	SB-906 (S)-4	8/27/2002	4							
SB-906(S)	SB-906 (S)-12	8/27/2002	12	0.633	0.379	0.0208	0.00686 J	0.067 U	0.067 U	0.066
SB-906(S)	SB-906 (S)-12	8/27/2002	12							
SB-908(S)	SB-908 (S)-4	8/27/2002	4	1.34 U	1.34 U	0.254 J	0.148 J	0.0868 J	0.148 J	0.585
SB-908(S)	SB-908 (S)-4	8/27/2002	4							
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.67 U	0.67 U	0.67 U	0.0809 J	0.268 U	0.268 U	0.302 J
SB-908(S)	SB-908 (S)-8	8/27/2002	8							
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10							
SB-909(S)	SB-909 (S)-4	8/27/2002	4	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.134 U	0.0389 J
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4							
SB-912(S)	SB-912(S)-2	9/3/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-912(S)	SB-912(S)-2	9/3/2003	2							
SB-912(S)	SB-912(S)-7	9/3/2003	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-912(S)	SB-912(S)-7	9/3/2003	7							
SB-913(S)	SB-913(S)-2	9/3/2003	2	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
SB-913(S)	SB-913(S)-2	9/3/2003	2							

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-913(S)	SB-913(S)-7	9/3/2003	7	0.335 U	0.335 U	0.335 U	0.335 U	0.335 U	0.335 U	0.335 U
SB-913(S)	SB-913(S)-7	9/3/2003	7							
SB-914(S)	SB-914(S)-2	9/3/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-914(S)	SB-914(S)-2	9/3/2003	2							
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5							
SB-915(S)	SB-915(s)-5.0	3/31/2004	5	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TP-201(C)	TP201(C)6E	8/27/2002	-	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
TP-201(C)	TP201(C)6E	8/27/2002	-							
TP-202(C)	TP202(C)6W	8/27/2002	-	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
TP-202(C)	TP202(C)6W	8/27/2002	-							

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0056 J
EX-2(S)	Ex-2/S-1	3/30/2004	-	0.0134 U	0.00865 J	0.0134 U	0.0083 J	0.0352	0.0162
EX-3(S)	Ex-3/S-1	3/31/2004	-	0.0233 J	0.152	0.067 U	0.0629 J	0.067 U	0.194
EX-4(S)	Ex-4/S-1	3/29/2004	-	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5					0.0134 U	
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5					0.0134 U	
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0287 J	0.0134 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5					0.0134 U	
SB-003(A)	SB-003(A)-5	9/4/2003	5	0.0268 U	0.0244 J	0.0268 U	0.0182 J	0.00983 J	0.031
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5					0.0134 U	
SB-005(A)	SB-005(A)-7	9/5/2003	7	0.0134 U	0.00753 J	0.0134 U	0.00376 J	0.0167 J	0.0087 J
SB-005(A)	SB-005(A)-7	9/5/2003	7					0.0134 U	
SB-006(A)	SB-006(A)-7'	3/31/2004	7	0.67 U	0.273 J	6.7	0.67 U	38	1.09
SB-006(A)	SB-006(A)-7'	3/31/2004	7					61.2	
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	0.268 U	0.128 J	3.22	0.268 U	53.4	0.388
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5					44.9	
SB-008(A)	SB-008(A)-2	8/26/2003	2	0.661	3.92	0.268 U	1.64	0.2 U	3.58
SB-008(A)	SB-008(A)-2	8/26/2003	2					0.268 U	
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5					0.0134 U	
SB-009(A)	SB-009(A)-2	8/27/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.208	0.0134 U
SB-009(A)	SB-009(A)-2	8/27/2003	2					0.0134 U	
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	0.268 U	2.68 U	7.8	0.268 U	11.3	0.969
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5					10.5	
SB-010(A)	SB-010(A)-2	8/27/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.262	0.0134 U
SB-010(A)	SB-010(A)-2	8/27/2003	2					0.0134 U	
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0438 J	0.0134 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5					0.0134 U	
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5					0.0134 U	
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5					0.0134 U	
SB-015(A)	SB-015(A)-7	9/10/2003	7	0.134 U	0.134 U	0.134 U	0.134 U	7.06	0.134 U
SB-015(A)	SB-015(A)-7	9/10/2003	7					15.7	
SB-016(A)	SB-016(A)-7	9/4/2003	7	0.067 U	0.067 U	0.151	0.067 U	0.552	0.067 U

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5					0.00659 J	
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5					0.0134 U	
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	0.67 U	0.67 U	0.823	0.67 U	85.3	0.336 J
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5					35.6	
SB-020(A)	SB-020(A)-4'	3/31/2004	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-020(A)	SB-020(A)-4'	3/31/2004	4					0.0134 U	
SB-020(A)	SB-020(A)-9'	3/31/2004	9	0.0134 U	0.0201 U	0.0134 U	0.0134 U	0.2 U	0.0082 J
SB-020(A)	SB-020(A)-9'	3/31/2004	9					0.00541 J	
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	1.69 U	1.69 U	23.4	1.69 U	45.4 J	6.03
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5					58.4	
SB-027(A)	SB-027 (A)-11	9/14/2005	11	1.55 U	2.33 U	25.4	1.55 U	41.9 J	5.93
SB-027(A)	SB-027 (A)-11	9/14/2005	11					64.9	
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	0.0169 U J	0.0169 U J	0.0169 U J	0.0169 U J	0.122 U J	0.0169 U J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5					0.0169 U J	
SB-100(C)	SB100(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0039 J
SB-100(C)	SB100(C)3	8/22/2002	3					0.00837 J	
SB-100(C)	SB100(C)20	8/22/2002	20	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0179 BJ	0.0134 U
SB-100(C)	SB100(C)20	8/22/2002	20					0.0134 U	
SB-101(C)	SB101(C)3	8/22/2002	3					0.001 U B	
SB-101(C)	SB101(C)18	8/22/2002	18					0.001 U B	
SB-102(C)	SB102(C)1-3	8/22/2002	2					0.001 U B	
SB-102(C)	SB102(C)18	8/22/2002	18					0.001 U B	
SB-103(C)	SB103(C)3	8/22/2002	3					0.001 U B	
SB-103(C)	SB103(C)18	8/22/2002	18					0.001 U B	
SB-104(C)	SB104(C)4	8/22/2002	4					0.001 U B	
SB-104(C)	SB104(C)20	8/22/2002	20					0.001 U	
SB-200(C)	SB200(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U B	0.0134 U
SB-200(C)	SB200(C)3	8/22/2002	3					0.0134 U	
SB-200(C)	SB200(C)6	8/22/2002	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U B	0.0134 U
SB-200(C)	SB200(C)6	8/22/2002	6					0.0134 U	
SB-201(C)	SB201(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U B	0.0134 U
SB-201(C)	SB201(C)3	8/22/2002	3					0.0134 U	
SB-201(C)	SB201(C)6	8/22/2002	6	0.0268 U	0.0112 J	0.0268 U	0.0268 U	0.001 U	0.0934
SB-201(C)	SB201(C)6	8/22/2002	6					0.0268 U	
SB-202(C)	SB202(C)2	8/22/2002	2	1.68 U	1.68 U	1.68 U	1.68 U	0.00664 J,B	2.88

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-202(C)	SB202(C)2	8/22/2002	2					1.68 U	
SB-202(C)	SB202(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U B	0.0134 U
SB-202(C)	SB202(C)3	8/22/2002	3					0.0134 U	
SB-202(C)	SB202(C)7	8/22/2002	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-202(C)	SB202(C)7	8/22/2002	7					0.000354 J	
SB-203(C)	SB203(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-203(C)	SB203(C)3	8/22/2002	3					0.001 U	
SB-203(C)	SB203(C)7	8/22/2002	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-203(C)	SB203(C)7	8/22/2002	7					0.0134 U	
SB-204(C)	SB204(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-204(C)	SB204(C)3	8/22/2002	3					0.0134 U	
SB-204(C)	SB204(C)8	8/22/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-204(C)	SB204(C)8	8/22/2002	8					0.0134 U	
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U B	0.0079 J
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5					0.0134 U	
SB-206(C)	SB206(C)-6	8/27/2002	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-206(C)	SB206(C)-6	8/27/2002	6					0.0134 U	
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5					0.0134 U	
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5					0.0134 U	
SB-209(C)	SB209(C)-3	8/27/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-209(C)	SB209(C)-3	8/27/2002	3					0.0134 U	
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5					0.0134 U	
SB-211(C)	SB211(C)-3	8/27/2002	3	0.00545 J	0.0134 U	0.0134 U	0.00711 J	0.001 U	0.0045 J
SB-211(C)	SB211(C)-3	8/27/2002	3					0.0134 U	
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5					0.0134 U	
SB-213(C)	SB213(C)-4	8/27/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-213(C)	SB213(C)-4	8/27/2002	4					0.0134 U	
SB-214(C)	SB214(C)-5	8/27/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-214(C)	SB214(C)-5	8/27/2002	5					0.0134 U	
SB-215(C)	SB215(C)-5	8/27/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0056 J
SB-215(C)	SB215(C)-5	8/27/2002	5					0.0134 U	
SB-216(C)	SB216(C)-3	8/27/2002	3	0.0134 U	0.00404 J	0.0127 J	0.0134 U	0.001 U B	0.0351
SB-216(C)	SB216(C)-3	8/27/2002	3					0.0134 U	
SB-217(C)	SB217(C)-3	8/28/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-217(C)	SB217(C)-3	8/28/2002	3					0.0134 U	

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0108 J
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5					0.0134 U	
SB-219(C)	SB219(C)-4	8/28/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-219(C)	SB219(C)-4	8/28/2002	4					0.001 U	
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-220(C)	SB220 (C)-5	8/28/2002	5					0.0134 U	
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5					0.0134 U	
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5					0.0134 U	
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.001 U	0.0268 U
SB-223(C)	SB223 (C)-6	8/29/2002	6					0.0268 U	
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-224(C)	SB224 (C)-2	8/29/2002	2					0.0134 U	
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-225(C)	SB225 (C)-3	8/29/2002	3					0.0134 U	
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-226(C)	SB226 (C)-3	8/29/2002	3					0.0134 U	
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-227(C)	SB227 (C)-8	8/29/2002	8					0.0134 U	
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.0268 U	0.014 J	0.0268 U	0.00816 J	0.001 U	0.0233 J
SB-228(C)	SB228 (C)-4	8/29/2002	4					0.0268 U	
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-229(C)	SB229 (C)-8	8/29/2002	8					0.0134 U	
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-230(C)	SB230 (C)-8	8/29/2002	8					0.0134 U	
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-231(C)	SB231 (C)-2	8/29/2002	2					0.0134 U	
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.001 U	0.0268 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8					0.0268 U	
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U B	0.0134 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3					0.0134 U	
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8					0.0134 U	
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U B	0.0134 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6					0.0134 U	
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.001 U	0.0107 J
SB-236(C)	SB 236 (C)-6	8/30/2002	6					0.0268 U	
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.0134 U	0.0134 U	0.0394	0.0134 U	0.001 U	0.0119 J

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-237(C)	SB 237 (C)-6	8/30/2002	6					0.0134 U	
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.001 U B	0.0268 U
SB-238(C)	SB 238 (C)-3	8/30/2002	3					0.0268 U	
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-239(C)	SB-239(C)-4	9/3/2002	4					0.0134 U	
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.001 U	0.0268 U
SB-240(C)	SB-240(C)-6	9/3/2002	6					0.0268 U	
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-241(C)	SB-241(C)-5	9/3/2002	5					0.0134 U	
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-242(C)	SB-242(C)-4	9/3/2002	4					0.0134 U	
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-243(C)	SB-243(C)-4	9/3/2002	4					0.0134 U	
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-244(C)	SB-244(C)-3	9/3/2002	3					0.0134 U	
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-245(C)	SB-245(C)-5	9/3/2002	5					0.0134 U	
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.001 U	0.0268 U
SB-246(C)	SB-246(C)-5	9/3/2002	5					0.0268 U	
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-247(C)	SB-247(C)-6	9/3/2002	6					0.0134 U	
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00126 B	0.0134 U
SB-250(C)	SB-250(C)-4	9/9/2002	4					0.0134 U	
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00129 B	0.0134 U
SB-251(C)	SB-251(C)-4	9/9/2002	4					0.0134 U	
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U B	0.0134 U
SB-252(C)	SB-252(C)-5	9/9/2002	5					0.0134 U	
SB-253(C)	SB-253(C)-2	9/4/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-253(C)	SB-253(C)-2	9/4/2003	2					0.0134 U	
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5					0.0134 U	
SB-254(C)	SB-254(C)-2	9/4/2003	2	0.0439 J	0.215	0.0267 J	0.1	0.0255 J	0.263
SB-254(C)	SB-254(C)-2	9/4/2003	2					0.067 U	
SB-254(C)	SB-254(C)-7	9/4/2003	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-254(C)	SB-254(C)-7	9/4/2003	7					0.0134 U	
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	0.168 U	0.843	0.52	0.0623 J	0.0621 J	0.776
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5					0.0147 J	
SB-255(C)	SB-255(C)-7	9/4/2003	7	0.694	24.5	8.15	4.23	4.23	24.4
SB-255(C)	SB-255(C)-7	9/4/2003	7					10.2	

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB256(C)	SB256 (c) 6	3/31/2004	6	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB256(C)	SB256 (c) 6	3/31/2004	6					0.0134 U	
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	0.067 U	0.0277 J	0.734	0.067 U	1.63	0.0918
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5					0.578	
SB-304(D)	SB-304-D-2.0	8/19/2002	2	0.134 U	0.134 U	0.395	0.134 U	1.08	0.1 J
SB-304(D)	SB-304-D-2.0	8/19/2002	2					1.06	
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	0.067 U	0.067 U	0.067 U	0.067 U	0.211	0.0695
SB-304(D)	SB-D-DUP-0819	8/19/2002	2					0.211	
SB-304(D)	SB-304-D-5.0	8/19/2002	5	0.067 U	0.067 U	0.124	0.067 U	1.38	0.0329 J
SB-304(D)	SB-304-D-5.0	8/19/2002	5					0.448	
SB-305(D)	SB-305-D-2.0	8/19/2002	2	0.0134 U	0.00652 J	0.136	0.0134 U	0.56	0.0245
SB-305(D)	SB-305-D-2.0	8/19/2002	2					0.25	
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	0.0134 U	0.0134 U	0.0191	0.0134 U	0.529	0.0134 U
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5					0.154	
SB-306(D)	SB-306-D-2.0	8/19/2002	2	0.134 U	0.0434 J	1.03	0.134 U	1.34	0.124 J
SB-306(D)	SB-306-D-2.0	8/19/2002	2					1.35	
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	0.134 U	0.0872 J	1.52	0.134 U	0.319 J	0.192
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5					0.67 U	
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2					0.2 U	
SB-307(D)	SB-307-D-2.0	8/19/2002	2					0.0134 U	
SB-309(D)	SB-309-D-2.0	8/19/2002	2	0.067 U	0.0353 J	0.552	0.067 U	0.0655 J	0.0801
SB-309(D)	SB-309-D-2.0	8/19/2002	2					0.134 U	
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.0134 U	0.0134 U	0.00644 J	0.0134 U	0.000521 U	0.0041 J
SB-309(D)	SB-309-D-5.0	8/19/2002	5					0.2 U	
SB-309(D)	SB-309-D-5.0	8/19/2002	5					0.0134 U	
SB-310(D)	SB-310-D-2.0	8/19/2002	2	0.0134 U	0.00439 J	0.0254	0.0134 U	0.535	0.0076 J
SB-310(D)	SB-310-D-2.0	8/19/2002	2					0.14	
SB-310(D)	SB-310-D-5.0	8/19/2002	5	0.134 U	0.0401 J	0.666	0.134 U	2.68	0.0712 J
SB-310(D)	SB-310-D-5.0	8/19/2002	5					1.57	
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.112	0.507	0.0268 U	0.45	0.000345 U	0.671
SB-311(D)	SB-311-D-5.0	8/19/2002	5					0.0172 J	
SB-311(D)	SB-311-D-5.0	8/19/2002	5					0.0246 J	
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00106 U	0.0134 U
SB-312(D)	SB-312-D-5.0	8/19/2002	5					0.0924 J	
SB-312(D)	SB-312-D-5.0	8/19/2002	5					0.0134 U	
SB-313(D)	SB-313-D-5.0	8/20/2002	5					0.705	
SB-313(D)	SB-313-D-18.0	8/20/2002	18					0.486	

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-2.0	8/20/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-314(D)	SB-314-D-10.0	8/20/2002	10	0.0134 U	0.134 U	1.66	0.0134 U	2.09	0.428
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0198	0.0134 U
SB-314(D)	SB-314-D-15.0	8/20/2002	15					0.106 J	
SB-314(D)	SB-314-D-15.0	8/20/2002	15					0.0509	
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00124 U	0.0134 U
SB-315(D)	SB-315-D-2.0	8/20/2002	2					0.2 U	
SB-315(D)	SB-315-D-2.0	8/20/2002	2					0.0134 U	
SB-315(D)	SB-315-D-5.0	8/20/2002	5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15					0.0101	
SB-315(D)	SB-315-D-15.0	8/20/2002	15					0.0417 J	
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.0134 U	0.00948 J	0.0134 U	0.0134 U	0.00225 U	0.0136
SB-316(D)	SB-316-D-2.0	8/20/2002	2					0.2 U	
SB-316(D)	SB-316-D-2.0	8/20/2002	2					0.0134 U	
SB-316(D)	SB-316-D-5.0	8/20/2002	5					3.21	
SB-316(D)	SB-D-DUP-3	8/20/2002	5	0.0268 U	0.0104 J	0.0268 U	0.0268 U	1.64	0.0254 J
SB-316(D)	SB-D-DUP-3	8/20/2002	5					0.515	
SB-316(D)	SB-316-D-10.0	8/20/2002	10	0.067 U	0.067 U	0.067 U	0.067 U	5.96	0.067 U
SB-316(D)	SB-316-D-10.0	8/20/2002	10					0.981	
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	4.58	0.0134 U
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5					0.272	
SB-318(D)	SB-318-D-10.0	8/20/2002	10					8.34	
SB-318(D)	SB-318-D-15.0	8/20/2002	15					6.57	
SB-320(D)	SB-320(D)-2	9/10/2003	2					0.0204	
SB-320(D)	SB-320(D)-5	9/10/2003	5					0.2 U	
SB-321(D)	SB-321(D)-2	9/9/2003	2					0.2 U	
SB-321(D)	SB-321(D)-5	9/9/2003	5					0.285	
SB-322(D)	SB-322(D)-2	9/10/2003	2					0.2 U	
SB-322(D)	SB-322(D)-5	9/10/2003	5					0.0273	
SB-323(D)	SB-323(D)-7	9/10/2003	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-323(D)	SB-323(D)-7	9/10/2003	7					0.2 U	
SB-324(D)	SB-324(D)-2	9/10/2003	2					0.218	
SB-324(D)	SB-324(D)-5	9/10/2003	5					0.0299	
SB-324(D)	SB-324(D)-10	9/10/2003	10					0.791	
SB-324(D)	SB-324(D)-15	9/10/2003	15					0.413	
SB-324(D)	SB-324(D)-DUP	9/10/2003	15					2.59	
SB-325(D)	SB-325(D)-2	9/10/2003	2					0.2 U	
SB-325(D)	SB-325(D)-DUP	9/10/2003	2					0.2 U	
SB-325(D)	SB-325(D)-5	9/10/2003	5					0.2 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-325(D)	SB-325(D)-10	9/10/2003	10					0.0141	
SB-325(D)	SB-325(D)-15	9/10/2003	15					0.2 U	
SB-326(D)	SB-326(D)-2	9/9/2003	2					0.0344	
SB-326(D)	SB-326(D)-5	9/9/2003	5					1.24	
SB-326(D)	SB-326(D)-10	9/9/2003	10					1.32	
SB-327(D)	SB-327(D)-2	9/10/2003	2					0.0329 J	
SB-327(D)	SB-327(D)-5	9/10/2003	5					0.2 U	
SB-327(D)	SB-327(D)-10	9/10/2003	10					2.85	
SB-327(D)	SB-327(D)-15	9/10/2003	15					4.19	
SB-328(D)	SB-328(D)-2	9/10/2003	2					0.031 J	
SB-328(D)	SB-328(D)-5	9/10/2003	5					0.0234 J	
SB-328(D)	SB-328(D)-10	9/10/2003	10					9.58	
SB-328(D)	SB-328(D)-15	9/10/2003	15					0.11	
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5					0.00732	
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5					6.49	
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5	0.00415 J	0.0205	0.0134 U	0.0186	0.00892 J	0.0241
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7					1.46	
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	0.067 U J	0.0186 J	0.0263 J	0.067 U J	1.01 J	0.0215 J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5					0.588 J	
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.015	0.0678 J	0.134 U	0.0672	0.001 U	0.084
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5					0.134 U	
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5					1.37	
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0276	0.0061 J
SB-410(F)	SB-410(F)-2'	3/31/2004	2					0.023 J	
SB-410(F)	SB-410(F)-4'	3/31/2004	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-410(F)	SB-410(F)-4'	3/31/2004	4					0.0134 U	
SB-410(F)	SB-410(F)-9'	3/31/2004	9					0.2 U	
SB-600(N)	SB-600(N)-7	9/13/2002	7					69	
SB-601(N)	SB-601(N)-3	9/13/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-601(N)	SB-601(N)-3	9/13/2002	3					0.0134 U	
SB-601(N)	SB-601(N)-7	9/13/2002	7	0.067 U	0.067 U	0.067 U	0.067 U	94.4	0.067 U
SB-601(N)	SB-601(N)-7	9/13/2002	7					36.3	
SB-602(N)	SB-602(N)-3	9/13/2002	3					0.502	
SB-602(N)	SB-602(N)-7	9/13/2002	7	0.1 U	0.1 U	1 U	1 U	141	0.145
SB-602(N)	SB-602(N)-7	9/13/2002	7	1 U	1 U	0.841	0.1 U	11.3	1 U
SB-602(N)	SB-602(N)-7	9/13/2002	7					71.1	
SB-602(N)	SB-602(N)-7	9/13/2002	7					91.8	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-603(N)	SB-603(N)-7	9/13/2002	7	0.067 U	0.067 U	0.67 U	0.067 U	40.3	0.067 U
SB-603(N)	SB-603(N)-7	9/13/2002	7					33.3	
SB-603(N)	SB-603(N)-7	9/13/2002	7					79.7	
SB-604(N)	SB-604(N)-3	9/13/2002	3					0.05 U	
SB-604(N)	SB-604(N)-7	9/13/2002	7	0.134 U	0.134 U	0.319	0.134 U	58.3	0.134 U
SB-604(N)	SB-604(N)-7	9/13/2002	7					20.8	
SB-605(N)	SB-605(N)-3	9/13/2002	3	0.0134 U	0.0134 U	0.0403	0.0134 U	5.22	0.0134 U
SB-605(N)	SB-605(N)-3	9/13/2002	3					0.348	
SB-605(N)	SB-605(N)-7	9/13/2002	7	0.134 U	0.134 U	1.34 U	0.134 U	132	0.145
SB-605(N)	SB-605(N)-7	9/13/2002	7					38.7	
SB-606(N)	SB-606(N)-3	9/13/2002	3					0.05 U	
SB-606(N)	SB-606(N)-7	9/13/2002	7					0.05 U	
SB-607(N)	SB-607(N)-11	9/13/2002	11					0.0947	
SB-608(N)	SB-608(N)-3	9/13/2002	3	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-608(N)	SB-608(N)-3	9/13/2002	3					0.0134 U	
SB-608(N)	SB-608(N)-6	9/13/2002	6					0.2 U	
SB-609(N)	SB-609(N)-3	9/13/2002	3					0.2 U	
SB-609(N)	SB-609(N)-7	9/13/2002	7					0.2 U	
SB-612(N)	SB-612 (N)-7	9/12/2002	7	0.1 U	0.1 U	0.722	0.1 U	38.3	0.164
SB-612(N)	SB-612 (N)-7	9/12/2002	7					94.1	
SB-612(N)	SB-612 (N)-7	9/12/2002	7					38.5	
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5					34.1	
SB-614(N)	SB-614 (N)-7	9/12/2002	7					30.6	
SB-615(N)	SB-615 (N)-7	9/12/2002	7					25.3	
SB-616(N)	SB-616 (N)-7	9/12/2002	7					81.3	
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3					0.05 U	
SB-617(N)	SB-617 (N)-3	9/12/2002	3					0.2 U	
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5					0.113	
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5					0.226	
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1.65 U	1.65 U	2.55	1.65 U	40.2	1.65 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7					42.8	
SB-618(N)	SB-618 (N)-7	9/12/2002	7					36.1	
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-619(N)	SB-619 (N)-7	9/12/2002	7					0.2 U	
SB-619(N)	SB-619 (N)-7	9/12/2002	7					0.05 U	
SB-619(N)	SB-619 (N)-11	9/12/2002	11	0.01 U	0.0527	1.81	0.01 U	21.3	0.133
SB-619(N)	SB-619 (N)-11	9/12/2002	11			0.443		16.6	
SB-619(N)	SB-619 (N)-11	9/12/2002	11					80.4	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-619(N)	SB-619 (N)-11	9/12/2002	11					1.43	
SB-620(N)	SB-620 (N)-3	9/12/2002	3					0.0517	
SB-620(N)	SB-620 (N)-7	9/12/2002	7	0.01 U	0.126	1.3	0.01 U	9.28	0.453
SB-620(N)	SB-620 (N)-7	9/12/2002	7					12.3	
SB-620(N)	SB-620 (N)-7	9/12/2002	7					56.1	
SB-620(N)	SB-620 (N)-7	9/12/2002	7					30.6	
SB-621(N)	SB-621 (N)-7	9/12/2002	7					0.05 U	
SB-622(N)	SB-622 (N)-2	9/12/2002	2					0.05 U	
SB-622(N)	SB-622 (N)-7	9/12/2002	7					0.001 U	
SB-622(N)	SB-622 (N)-7	9/12/2002	7					0.05 U	
SB-623(N)	SB-623 (N)-7	9/12/2002	7					18.3	
SB-623(N)	SB-623 (N)-7	9/12/2002	7					26	
SB-624(N)	SB-624 (N)-2	9/12/2002	2					0.05 U	
SB-624(N)	SB-624 (N)-7	9/12/2002	7	3.3 U	3.3 U	5.58	3.3 U	9.65	3.3 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7					6.07	
SB-625(N)	SB-625 (N)-2	9/12/2002	2					0.05 U	
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.01 U	0.0145	0.0268	0.01 U	0.0377	0.01 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7					0.05 U	
SB-625(N)	SB-625 (N)-7	9/12/2002	7					0.2 U	
SB-625(N)	SB-625 (N)-10	9/12/2002	10					0.898	
SB-626(N)	SB-626 (N)-7	9/12/2002	7	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-626(N)	SB-626 (N)-7	9/12/2002	7					65.9	
SB-626(N)	SB-626 (N)-7	9/12/2002	7					96.2	
SB-627(N)	SB-627(N)-2	8/28/2003	2	0.0227 J	0.0526 J	0.067 U	0.0743	0.0335 J	0.074
SB-627(N)	SB-627(N)-2	8/28/2003	2					0.0291 J	
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	0.67 U	0.67 U	7.06	0.67 U	25.5	0.671
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5					25.5	
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	0.134 U	0.134 U	0.0589 J	0.134 U	38.9	0.134 U
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5					36.6	
SB-700(P)	SB-700(P)-3	8/21/2002	3					0.001 U	
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.0134 U	0.0134 U	0.0168	0.0134 U	1.81	0.0134 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5					1.94	
SB-701(P)	SB-701(P)-2	8/20/2002	2					0.001 U	
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-701(P)	SB-701(P)-11	8/20/2002	11					0.0134 U	
SB-701(P)	SB-701(P)-12	8/20/2002	12					0.0465	
SB-702(P)	SB-702(P)-2	8/21/2002	2					0.001 U	
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00183	0.0134 U

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-702(P)	SB-702(P)-11	8/21/2002	11					0.0134 U	
SB-703(P)	SB-703(P)-2	8/21/2002	2					0.00104	
SB-703(P)	SB-703(P)-10	8/21/2002	10					0.000874 J	
SB-704(P)	SB-704(P)-2	8/21/2002	2					0.001 U	
SB-704(P)	SB-704(P)-11	8/21/2002	11					0.001 U	
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5					0.000541 J	
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10					0.0134 U	
SB-708(P)	SB-708(P)-10	8/20/2002	10	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-709(P)	SB-709(P)-3	8/21/2002	3					0.000698 U B	
SB-709(P)	SB-709(P)-10	8/21/2002	10					0.001 U	
SB-709(P)	SB-709(P)-10	8/21/2002	10					U B	
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.0268 U	0.0106 J	0.0268 U	0.00864 J	0.000591 J	0.0163 J
SB-710(P)	SB-710(P)-3	8/21/2002	3					0.0268 U	
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5					0.00099	
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5					0.00217	
SB-711(P)	SB-711(P)-3	8/21/2002	3					0.00041 U JB	
SB-711(P)	SB-711(P)-10	8/21/2002	10					0.000623 U JB	
SB-712(P)	SB-712(P)-2	8/21/2002	2					0.00345	
SB-712(P)	SB-712(P)-2	8/21/2002	2					0.00354	
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.0475 J	1.02	0.318	0.116 J	0.134 U	0.753
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5	0.00513 J	0.0869 J	1.78	0.0133 J	39.7	0.567
SB-714(P)	SB-714(P)-10	8/21/2002	10					37	
SB-716(P)	SB-716(P)-3	8/20/2002	3					0.00052 J	
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.000576 J	0.0134 U
SB-716(P)	SB-716(P)-10	8/20/2002	10					0.0134 U	
SB-717(P)	SB-717(P)-3	8/20/2002	3					0.000488 J	
SB-717(P)	SB-717(P)-10	8/20/2002	10					0.000501 J	
SB-719(P)	SB-719(P)-12	8/23/2002	12	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-720(P)	SB-720(P)-2	8/23/2002	2	0.052	0.331	0.0134 U	0.143	0.0134 U	0.335
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5	0.067 U	0.0401 J	1.24	0.067 U	24.1	0.181
SB-721(P)	SB-721(P)-7'	3/31/2004	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7					0.0134 U	
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.067 U	0.0286 J	0.067 U	0.0252 J	0.07 J	0.0225 J
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-					0.067 U	
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0808 J	0.0134 U

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RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-834(Q)	SB-834(Q)-2	9/5/2003	2					0.0134 U	
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.127 J	0.0134 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5					0.0134 U	
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	0.00498 J	0.0229	0.0134 U	0.0149	0.2 U	0.0244
SB-835(Q)	SB-835(Q)-2	9/5/2003	2					0.0134 U	
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-835(Q)	SB-835(Q)-7	9/5/2003	7					0.0134 U	
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.0134 U	0.0204	0.0134 U	0.00763 J	0.00071 J	0.0301
SB-900(S)	SB-900(S)-4	8/26/2002	4					0.00822 J	
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0886 J	0.0134 U
SB-900(S)	SB-900(S)-12	8/26/2002	12					1.34 U	
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.0134 U	0.0134 U	0.198	0.0134 U	0.001 U	0.067 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12					0.335 U	
SB-903(S)	SB-903 (S)-10	8/26/2002	10	0.0134 U	0.103 J	2.03	0.0134 U	1 U	0.202 J
SB-903(S)	SB-903 (S)-10	8/26/2002	10					3.35 U	
SB-904(S)	SB-904 (S)-12	8/26/2002	12	0.0134 U	0.335 U	2.49	0.0134 U	15.1	0.193 J
SB-904(S)	SB-904 (S)-12	8/26/2002	12					4.06	
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.0134 U	0.067 U	0.067 U	0.00438 J	0.00884	0.067 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12					0.067 U	
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.0134 U	0.0134 U	0.067 U	0.00516 J	0.001 U	0.0121 J
SB-906(S)	SB-906 (S)-4	8/27/2002	4					0.067 U	
SB-906(S)	SB-906 (S)-12	8/27/2002	12	0.0134 U	0.335 U	2.05	0.00544 J	0.146 J	0.216
SB-906(S)	SB-906 (S)-12	8/27/2002	12					3.35 U	
SB-908(S)	SB-908 (S)-4	8/27/2002	4	0.268 U	0.67 U	1.34 U	0.268 U	0.2 U	0.462
SB-908(S)	SB-908 (S)-4	8/27/2002	4					3.35 U	
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.268 U	0.67 U	0.67 U	0.268 U	0.001 U	0.264 J
SB-908(S)	SB-908 (S)-8	8/27/2002	8					0.67 U	
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10					0.001 U	
SB-909(S)	SB-909 (S)-4	8/27/2002	4	0.134 U	0.0494 J	0.134 U	0.134 U	0.134 U	0.0412 J
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.001 U	0.0134 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4					0.0134 U	
SB-912(S)	SB-912(S)-2	9/3/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-912(S)	SB-912(S)-2	9/3/2003	2					0.0134 U	
SB-912(S)	SB-912(S)-7	9/3/2003	7	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-912(S)	SB-912(S)-7	9/3/2003	7					0.0134 U	
SB-913(S)	SB-913(S)-2	9/3/2003	2	0.67 U	0.67 U	0.67 U	0.67 U	0.2 U	0.67 U
SB-913(S)	SB-913(S)-2	9/3/2003	2					0.67 U	

TABLE D-4

RBDMSVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-913(S)	SB-913(S)-7	9/3/2003	7	0.335 U	0.335 U	0.335 U	0.335 U	0.2 U	0.335 U
SB-913(S)	SB-913(S)-7	9/3/2003	7					0.335 U	
SB-914(S)	SB-914(S)-2	9/3/2003	2	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-914(S)	SB-914(S)-2	9/3/2003	2					0.0134 U	
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.2 U	0.0134 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5					0.0134 U	
SB-915(S)	SB-915(s)-5.0	3/31/2004	5	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TP-201(C)	TP201(C)6E	8/27/2002	-	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.000672 J	0.0134 U
TP-201(C)	TP201(C)6E	8/27/2002	-					0.0134 U	
TP-202(C)	TP202(C)6W	8/27/2002	-	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.000461 J	0.0134 U
TP-202(C)	TP202(C)6W	8/27/2002	-					0.0134 U	

TABLE D-5

SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-									
EX-2(S)	Ex-2/S-1	3/30/2004	-									
EX-3(S)	Ex-3/S-1	3/31/2004	-									
EX-4(S)	Ex-4/S-1	3/29/2004	-									
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5									
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5									
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5									
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5									
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5									
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5									
SB-003(A)	SB-003(A)-5	9/4/2003	5									
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5									
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5									
SB-005(A)	SB-005(A)-7	9/5/2003	7									
SB-005(A)	SB-005(A)-7	9/5/2003	7									
SB-006(A)	SB-006(A)-7'	3/31/2004	7									
SB-006(A)	SB-006(A)-7'	3/31/2004	7									
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5									
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5									
SB-008(A)	SB-008(A)-2	8/26/2003	2									
SB-008(A)	SB-008(A)-2	8/26/2003	2									
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5									
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5									
SB-009(A)	SB-009(A)-2	8/27/2003	2									
SB-009(A)	SB-009(A)-2	8/27/2003	2									
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5									
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5									
SB-010(A)	SB-010(A)-2	8/27/2003	2									
SB-010(A)	SB-010(A)-2	8/27/2003	2									
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5									
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5									
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5									
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5									
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5									
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5									
SB-015(A)	SB-015(A)-7	9/10/2003	7									
SB-015(A)	SB-015(A)-7	9/10/2003	7									
SB-016(A)	SB-016(A)-7	9/4/2003	7									
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5									
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5									
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5									
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5									
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5									
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5									
SB-020(A)	SB-020(A)-4'	3/31/2004	4									
SB-020(A)	SB-020(A)-4'	3/31/2004	4									
SB-020(A)	SB-020(A)-9'	3/31/2004	9									
SB-020(A)	SB-020(A)-9'	3/31/2004	9									
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5									
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5									
SB-027(A)	SB-027 (A)-11	9/14/2005	11									
SB-027(A)	SB-027 (A)-11	9/14/2005	11									
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5									
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5									
SB-100(C)	SB100(C)3	8/22/2002	3									
SB-100(C)	SB100(C)3	8/22/2002	3									
SB-100(C)	SB100(C)20	8/22/2002	20									

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-100(C)	SB100(C)20	8/22/2002	20									
SB-101(C)	SB101(C)3	8/22/2002	3									
SB-101(C)	SB101(C)18	8/22/2002	18									
SB-102(C)	SB102(C)1-3	8/22/2002	2									
SB-102(C)	SB102(C)18	8/22/2002	18									
SB-103(C)	SB103(C)3	8/22/2002	3									
SB-103(C)	SB103(C)18	8/22/2002	18									
SB-104(C)	SB104(C)4	8/22/2002	4									
SB-104(C)	SB104(C)20	8/22/2002	20									
SB-200(C)	SB200(C)3	8/22/2002	3									
SB-200(C)	SB200(C)3	8/22/2002	3									
SB-200(C)	SB200(C)6	8/22/2002	6									
SB-200(C)	SB200(C)6	8/22/2002	6									
SB-201(C)	SB201(C)3	8/22/2002	3									
SB-201(C)	SB201(C)3	8/22/2002	3									
SB-201(C)	SB201(C)6	8/22/2002	6									
SB-201(C)	SB201(C)6	8/22/2002	6									
SB-202(C)	SB202(C)2	8/22/2002	2									
SB-202(C)	SB202(C)2	8/22/2002	2									
SB-202(C)	SB202(C)3	8/22/2002	3									
SB-202(C)	SB202(C)3	8/22/2002	3									
SB-202(C)	SB202(C)7	8/22/2002	7									
SB-202(C)	SB202(C)7	8/22/2002	7									
SB-203(C)	SB203(C)3	8/22/2002	3									
SB-203(C)	SB203(C)3	8/22/2002	3									
SB-203(C)	SB203(C)7	8/22/2002	7									
SB-203(C)	SB203(C)7	8/22/2002	7									
SB-204(C)	SB204(C)3	8/22/2002	3									
SB-204(C)	SB204(C)3	8/22/2002	3									
SB-204(C)	SB204(C)8	8/22/2002	8									
SB-204(C)	SB204(C)8	8/22/2002	8									
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5									
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5									
SB-206(C)	SB206(C)-6	8/27/2002	6									
SB-206(C)	SB206(C)-6	8/27/2002	6									
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5									
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5									
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5									
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5									
SB-209(C)	SB209(C)-3	8/27/2002	3									
SB-209(C)	SB209(C)-3	8/27/2002	3									
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5									
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5									
SB-211(C)	SB211(C)-3	8/27/2002	3									
SB-211(C)	SB211(C)-3	8/27/2002	3									
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5									
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5									
SB-213(C)	SB213(C)-4	8/27/2002	4									
SB-213(C)	SB213(C)-4	8/27/2002	4									
SB-214(C)	SB214(C)-5	8/27/2002	5									
SB-214(C)	SB214(C)-5	8/27/2002	5									
SB-215(C)	SB215(C)-5	8/27/2002	5									
SB-215(C)	SB215(C)-5	8/27/2002	5									
SB-216(C)	SB216(C)-3	8/27/2002	3									
SB-216(C)	SB216(C)-3	8/27/2002	3									
SB-217(C)	SB217(C)-3	8/28/2002	3									
SB-217(C)	SB217(C)-3	8/28/2002	3									
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5									

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5									
SB-219(C)	SB219(C)-4	8/28/2002	4									
SB-219(C)	SB219(C)-4	8/28/2002	4									
SB-220(C)	SB220 (C)-5	8/28/2002	5									
SB-220(C)	SB220 (C)-5	8/28/2002	5									
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5									
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5									
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5									
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5									
SB-223(C)	SB223 (C)-6	8/29/2002	6									
SB-223(C)	SB223 (C)-6	8/29/2002	6									
SB-224(C)	SB224 (C)-2	8/29/2002	2									
SB-224(C)	SB224 (C)-2	8/29/2002	2									
SB-225(C)	SB225 (C)-3	8/29/2002	3									
SB-225(C)	SB225 (C)-3	8/29/2002	3									
SB-226(C)	SB226 (C)-3	8/29/2002	3									
SB-226(C)	SB226 (C)-3	8/29/2002	3									
SB-227(C)	SB227 (C)-8	8/29/2002	8									
SB-227(C)	SB227 (C)-8	8/29/2002	8									
SB-228(C)	SB228 (C)-4	8/29/2002	4									
SB-228(C)	SB228 (C)-4	8/29/2002	4									
SB-229(C)	SB229 (C)-8	8/29/2002	8									
SB-229(C)	SB229 (C)-8	8/29/2002	8									
SB-230(C)	SB230 (C)-8	8/29/2002	8									
SB-230(C)	SB230 (C)-8	8/29/2002	8									
SB-231(C)	SB231 (C)-2	8/29/2002	2									
SB-231(C)	SB231 (C)-2	8/29/2002	2									
SB-232(C)	SB 232 (C)-8	8/30/2002	8									
SB-232(C)	SB 232 (C)-8	8/30/2002	8									
SB-233(C)	SB 233 (C)-3	8/30/2002	3									
SB-233(C)	SB 233 (C)-3	8/30/2002	3									
SB-234(C)	SB 234 (C)-8	8/30/2002	8									
SB-234(C)	SB 234 (C)-8	8/30/2002	8									
SB-235(C)	SB 235 (C)-6	8/30/2002	6									
SB-235(C)	SB 235 (C)-6	8/30/2002	6									
SB-236(C)	SB 236 (C)-6	8/30/2002	6									
SB-236(C)	SB 236 (C)-6	8/30/2002	6									
SB-237(C)	SB 237 (C)-6	8/30/2002	6									
SB-237(C)	SB 237 (C)-6	8/30/2002	6									
SB-238(C)	SB 238 (C)-3	8/30/2002	3									
SB-238(C)	SB 238 (C)-3	8/30/2002	3									
SB-239(C)	SB-239(C)-4	9/3/2002	4									
SB-239(C)	SB-239(C)-4	9/3/2002	4									
SB-240(C)	SB-240(C)-6	9/3/2002	6									
SB-240(C)	SB-240(C)-6	9/3/2002	6									
SB-241(C)	SB-241(C)-5	9/3/2002	5									
SB-241(C)	SB-241(C)-5	9/3/2002	5									
SB-242(C)	SB-242(C)-4	9/3/2002	4									
SB-242(C)	SB-242(C)-4	9/3/2002	4									
SB-243(C)	SB-243(C)-4	9/3/2002	4									
SB-243(C)	SB-243(C)-4	9/3/2002	4									
SB-244(C)	SB-244(C)-3	9/3/2002	3									
SB-244(C)	SB-244(C)-3	9/3/2002	3									
SB-245(C)	SB-245(C)-5	9/3/2002	5									
SB-245(C)	SB-245(C)-5	9/3/2002	5									
SB-246(C)	SB-246(C)-5	9/3/2002	5									
SB-246(C)	SB-246(C)-5	9/3/2002	5									
SB-247(C)	SB-247(C)-6	9/3/2002	6									
SB-247(C)	SB-247(C)-6	9/3/2002	6									

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-250(C)	SB-250(C)-4	9/9/2002	4									
SB-250(C)	SB-250(C)-4	9/9/2002	4									
SB-251(C)	SB-251(C)-4	9/9/2002	4									
SB-251(C)	SB-251(C)-4	9/9/2002	4									
SB-252(C)	SB-252(C)-5	9/9/2002	5									
SB-252(C)	SB-252(C)-5	9/9/2002	5									
SB-253(C)	SB-253(C)-2	9/4/2003	2									
SB-253(C)	SB-253(C)-2	9/4/2003	2									
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5									
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5									
SB-254(C)	SB-254(C)-2	9/4/2003	2									
SB-254(C)	SB-254(C)-2	9/4/2003	2									
SB-254(C)	SB-254(C)-7	9/4/2003	7									
SB-254(C)	SB-254(C)-7	9/4/2003	7									
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5									
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5									
SB-255(C)	SB-255(C)-7	9/4/2003	7									
SB-255(C)	SB-255(C)-7	9/4/2003	7									
SB-256(C)	SB256 (c) 6	3/31/2004	6									
SB-256(C)	SB256 (c) 6	3/31/2004	6									
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5									
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5									
SB-304(D)	SB-304-D-2.0	8/19/2002	2									
SB-304(D)	SB-304-D-2.0	8/19/2002	2									
SB-304(D)	SB-D-DUP-0819	8/19/2002	2									
SB-304(D)	SB-D-DUP-0819	8/19/2002	2									
SB-304(D)	SB-304-D-5.0	8/19/2002	5									
SB-304(D)	SB-304-D-5.0	8/19/2002	5									
SB-305(D)	SB-305-D-2.0	8/19/2002	2									
SB-305(D)	SB-305-D-2.0	8/19/2002	2									
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5									
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5									
SB-306(D)	SB-306-D-2.0	8/19/2002	2									
SB-306(D)	SB-306-D-2.0	8/19/2002	2									
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5									
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5									
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-310(D)	SB-310-D-2.0	8/19/2002	2									
SB-310(D)	SB-310-D-2.0	8/19/2002	2									
SB-310(D)	SB-310-D-5.0	8/19/2002	5									
SB-310(D)	SB-310-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-313(D)	SB-313-D-5.0	8/20/2002	5									
SB-313(D)	SB-313-D-18.0	8/20/2002	18									
SB-314(D)	SB-314-D-2.0	8/20/2002	2									
SB-314(D)	SB-314-D-10.0	8/20/2002	10									

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15									
SB-314(D)	SB-314-D-15.0	8/20/2002	15									
SB-314(D)	SB-314-D-15.0	8/20/2002	15									
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-5.0	8/20/2002	5									
SB-315(D)	SB-315-D-15.0	8/20/2002	15									
SB-315(D)	SB-315-D-15.0	8/20/2002	15									
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-5.0	8/20/2002	5									
SB-316(D)	SB-D-DUP-3	8/20/2002	5									
SB-316(D)	SB-D-DUP-3	8/20/2002	5									
SB-316(D)	SB-316-D-10.0	8/20/2002	10									
SB-316(D)	SB-316-D-10.0	8/20/2002	10									
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5									
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5									
SB-318(D)	SB-318-D-10.0	8/20/2002	10									
SB-318(D)	SB-318-D-15.0	8/20/2002	15									
SB-320(D)	SB-320(D)-2	9/10/2003	2									
SB-320(D)	SB-320(D)-5	9/10/2003	5									
SB-321(D)	SB-321(D)-2	9/9/2003	2									
SB-321(D)	SB-321(D)-5	9/9/2003	5									
SB-322(D)	SB-322(D)-2	9/10/2003	2									
SB-322(D)	SB-322(D)-5	9/10/2003	5									
SB-323(D)	SB-323(D)-7	9/10/2003	7									
SB-323(D)	SB-323(D)-7	9/10/2003	7									
SB-324(D)	SB-324(D)-2	9/10/2003	2									
SB-324(D)	SB-324(D)-5	9/10/2003	5									
SB-324(D)	SB-324(D)-10	9/10/2003	10									
SB-324(D)	SB-324(D)-15	9/10/2003	15									
SB-324(D)	SB-324(D)-DUP	9/10/2003	15									
SB-325(D)	SB-325(D)-2	9/10/2003	2									
SB-325(D)	SB-325(D)-DUP	9/10/2003	2									
SB-325(D)	SB-325(D)-5	9/10/2003	5									
SB-325(D)	SB-325(D)-10	9/10/2003	10									
SB-325(D)	SB-325(D)-15	9/10/2003	15									
SB-326(D)	SB-326(D)-2	9/9/2003	2									
SB-326(D)	SB-326(D)-5	9/9/2003	5									
SB-326(D)	SB-326(D)-10	9/9/2003	10									
SB-327(D)	SB-327(D)-2	9/10/2003	2									
SB-327(D)	SB-327(D)-5	9/10/2003	5									
SB-327(D)	SB-327(D)-10	9/10/2003	10									
SB-327(D)	SB-327(D)-15	9/10/2003	15									
SB-328(D)	SB-328(D)-2	9/10/2003	2									
SB-328(D)	SB-328(D)-5	9/10/2003	5									
SB-328(D)	SB-328(D)-10	9/10/2003	10									
SB-328(D)	SB-328(D)-15	9/10/2003	15									
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5									
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5									
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5									
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7									
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5									
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5									
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5									
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5									

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5									
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5									
SB-410(F)	SB-410(F)-2'	3/31/2004	2									
SB-410(F)	SB-410(F)-4'	3/31/2004	4									
SB-410(F)	SB-410(F)-4'	3/31/2004	4									
SB-410(F)	SB-410(F)-9'	3/31/2004	9									
SB-600(N)	SB-600(N)-7	9/13/2002	7									
SB-601(N)	SB-601(N)-3	9/13/2002	3									
SB-601(N)	SB-601(N)-3	9/13/2002	3									
SB-601(N)	SB-601(N)-7	9/13/2002	7									
SB-601(N)	SB-601(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-3	9/13/2002	3									
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-604(N)	SB-604(N)-3	9/13/2002	3									
SB-604(N)	SB-604(N)-7	9/13/2002	7									
SB-604(N)	SB-604(N)-7	9/13/2002	7									
SB-605(N)	SB-605(N)-3	9/13/2002	3									
SB-605(N)	SB-605(N)-3	9/13/2002	3									
SB-605(N)	SB-605(N)-7	9/13/2002	7									
SB-605(N)	SB-605(N)-7	9/13/2002	7									
SB-606(N)	SB-606(N)-3	9/13/2002	3									
SB-606(N)	SB-606(N)-7	9/13/2002	7									
SB-607(N)	SB-607(N)-11	9/13/2002	11									
SB-608(N)	SB-608(N)-3	9/13/2002	3									
SB-608(N)	SB-608(N)-3	9/13/2002	3									
SB-608(N)	SB-608(N)-6	9/13/2002	6									
SB-609(N)	SB-609(N)-3	9/13/2002	3									
SB-609(N)	SB-609(N)-7	9/13/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5									
SB-614(N)	SB-614 (N)-7	9/12/2002	7									
SB-615(N)	SB-615 (N)-7	9/12/2002	7									
SB-616(N)	SB-616 (N)-7	9/12/2002	7									
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5									
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5									
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1.65 U	1.65 U	1.65 U	5 U	10 U	2.5 U		2.5 U	1.65 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7									
SB-618(N)	SB-618 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-620(N)	SB-620 (N)-3	9/12/2002	3									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-621(N)	SB-621 (N)-7	9/12/2002	7									
SB-622(N)	SB-622 (N)-2	9/12/2002	2									
SB-622(N)	SB-622 (N)-7	9/12/2002	7									
SB-622(N)	SB-622 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-624(N)	SB-624 (N)-2	9/12/2002	2									
SB-624(N)	SB-624 (N)-7	9/12/2002	7	3.3 U	3.3 U	3.3 U	10 U	20 U	5 U		5 U	3.3 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-2	9/12/2002	2									
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-10	9/12/2002	10									
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-627(N)	SB-627(N)-2	8/28/2003	2									
SB-627(N)	SB-627(N)-2	8/28/2003	2									
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5									
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5									
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5									
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5									
SB-700(P)	SB-700(P)-3	8/21/2002	3									
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5									
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5									
SB-701(P)	SB-701(P)-2	8/20/2002	2									
SB-701(P)	SB-701(P)-11	8/20/2002	11									
SB-701(P)	SB-701(P)-11	8/20/2002	11									
SB-701(P)	SB-701(P)-12	8/20/2002	12									
SB-702(P)	SB-702(P)-2	8/21/2002	2									
SB-702(P)	SB-702(P)-11	8/21/2002	11									
SB-702(P)	SB-702(P)-11	8/21/2002	11									
SB-703(P)	SB-703(P)-2	8/21/2002	2									
SB-703(P)	SB-703(P)-10	8/21/2002	10									
SB-704(P)	SB-704(P)-2	8/21/2002	2	6 U	6 U	6 U	6 U	15 U		6 U		
SB-704(P)	SB-704(P)-11	8/21/2002	11	2 U	2 U	2 U	2 U	5 U		2 U		
SB-705(P)	SB-705(P)-3	8/20/2002	3	6 U	6 U	6 U	6 U	15 U		6 U		
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	2 U	2 U	2 U	2 U	5 U		2 U		
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	6 U	6 U	6 U	6 U	15 U		6 U		
SB-705(P)	SB-705(P)-12	8/20/2002	12	2 U	2 U	2 U	2 U	5 U		2 U		
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5									
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5									
SB-707(P)	SB-707(P)-10	8/21/2002	10									
SB-707(P)	SB-707(P)-10	8/21/2002	10									
SB-708(P)	SB-708(P)-10	8/20/2002	10									
SB-709(P)	SB-709(P)-3	8/21/2002	3									
SB-709(P)	SB-709(P)-10	8/21/2002	10									
SB-709(P)	SB-709(P)-10	8/21/2002	10									
SB-710(P)	SB-710(P)-3	8/21/2002	3									
SB-710(P)	SB-710(P)-3	8/21/2002	3									
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5									
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5									
SB-711(P)	SB-711(P)-3	8/21/2002	3									
SB-711(P)	SB-711(P)-10	8/21/2002	10									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-712(P)	SB-712(P)-2	8/21/2002	2									
SB-712(P)	SB-712(P)-2	8/21/2002	2									
SB-712(P)	SB-712(P)-10	8/21/2002	10									
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5									
SB-714(P)	SB-714(P)-10	8/21/2002	10									
SB-716(P)	SB-716(P)-3	8/20/2002	3									
SB-716(P)	SB-716(P)-10	8/20/2002	10									
SB-716(P)	SB-716(P)-10	8/20/2002	10									
SB-717(P)	SB-717(P)-3	8/20/2002	3									
SB-717(P)	SB-717(P)-10	8/20/2002	10									
SB-719(P)	SB-719(P)-12	8/23/2002	12									
SB-720(P)	SB-720(P)-2	8/23/2002	2									
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5									
SB-721(P)	SB-721(P)-7'	3/31/2004	7									
SB-721(P)	SB-721(P)-7'	3/31/2004	7									
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-									
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-									
SB-834(Q)	SB-834(Q)-2	9/5/2003	2									
SB-834(Q)	SB-834(Q)-2	9/5/2003	2									
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5									
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5									
SB-835(Q)	SB-835(Q)-2	9/5/2003	2									
SB-835(Q)	SB-835(Q)-2	9/5/2003	2									
SB-835(Q)	SB-835(Q)-7	9/5/2003	7									
SB-835(Q)	SB-835(Q)-7	9/5/2003	7									
SB-900(S)	SB-900(S)-4	8/26/2002	4									
SB-900(S)	SB-900(S)-4	8/26/2002	4									
SB-900(S)	SB-900(S)-12	8/26/2002	12									
SB-900(S)	SB-900(S)-12	8/26/2002	12									
SB-902(S)	SB-902 (S)-12	8/26/2002	12									
SB-902(S)	SB-902 (S)-12	8/26/2002	12									
SB-903(S)	SB-903 (S)-10	8/26/2002	10									
SB-903(S)	SB-903 (S)-10	8/26/2002	10									
SB-904(S)	SB-904 (S)-12	8/26/2002	12									
SB-904(S)	SB-904 (S)-12	8/26/2002	12									
SB-905(S)	SB-905 (S)-12	8/26/2002	12									
SB-905(S)	SB-905 (S)-12	8/26/2002	12									
SB-906(S)	SB-906 (S)-4	8/27/2002	4									
SB-906(S)	SB-906 (S)-4	8/27/2002	4									
SB-906(S)	SB-906 (S)-12	8/27/2002	12									
SB-906(S)	SB-906 (S)-12	8/27/2002	12									
SB-908(S)	SB-908 (S)-4	8/27/2002	4									
SB-908(S)	SB-908 (S)-4	8/27/2002	4									
SB-908(S)	SB-908 (S)-8	8/27/2002	8									
SB-908(S)	SB-908 (S)-8	8/27/2002	8									
SB-908(S)	SB-908 (S)-10	8/27/2002	10									
SB-908(S)	SB-908 (S)-10	8/27/2002	10									
SB-909(S)	SB-909 (S)-4	8/27/2002	4									
SB-910(S)	SB-910 (S)-4	8/27/2002	4									
SB-910(S)	SB-910 (S)-4	8/27/2002	4									
SB-912(S)	SB-912(S)-2	9/3/2003	2									
SB-912(S)	SB-912(S)-2	9/3/2003	2									
SB-912(S)	SB-912(S)-7	9/3/2003	7									
SB-912(S)	SB-912(S)-7	9/3/2003	7									
SB-913(S)	SB-913(S)-2	9/3/2003	2									
SB-913(S)	SB-913(S)-2	9/3/2003	2									
SB-913(S)	SB-913(S)-7	9/3/2003	7									

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene	2-Chloronaphthalene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-913(S)	SB-913(S)-7	9/3/2003	7									
SB-914(S)	SB-914(S)-2	9/3/2003	2									
SB-914(S)	SB-914(S)-2	9/3/2003	2									
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5									
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5									
SB-915(S)	SB-915(s)-5.0	3/31/2004	5									
TP-201(C)	TP201(C)6E	8/27/2002	-									
TP-201(C)	TP201(C)6E	8/27/2002	-									
TP-202(C)	TP202(C)6W	8/27/2002	-									
TP-202(C)	TP202(C)6W	8/27/2002	-									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-							
EX-2(S)	Ex-2/S-1	3/30/2004	-							
EX-3(S)	Ex-3/S-1	3/31/2004	-							
EX-4(S)	Ex-4/S-1	3/29/2004	-							
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5							
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5							
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5							
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5							
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5							
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5							
SB-003(A)	SB-003(A)-5	9/4/2003	5							
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5							
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5							
SB-005(A)	SB-005(A)-7	9/5/2003	7							
SB-005(A)	SB-005(A)-7	9/5/2003	7							
SB-006(A)	SB-006(A)-7'	3/31/2004	7							
SB-006(A)	SB-006(A)-7'	3/31/2004	7							
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5							
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5							
SB-008(A)	SB-008(A)-2	8/26/2003	2							
SB-008(A)	SB-008(A)-2	8/26/2003	2							
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5							
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5							
SB-009(A)	SB-009(A)-2	8/27/2003	2							
SB-009(A)	SB-009(A)-2	8/27/2003	2							
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5							
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5							
SB-010(A)	SB-010(A)-2	8/27/2003	2							
SB-010(A)	SB-010(A)-2	8/27/2003	2							
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5							
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5							
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5							
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5							
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5							
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5							
SB-015(A)	SB-015(A)-7	9/10/2003	7							
SB-015(A)	SB-015(A)-7	9/10/2003	7							
SB-016(A)	SB-016(A)-7	9/4/2003	7							
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5							
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5							
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5							
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5							
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5							
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5							
SB-020(A)	SB-020(A)-4'	3/31/2004	4							
SB-020(A)	SB-020(A)-4'	3/31/2004	4							
SB-020(A)	SB-020(A)-9'	3/31/2004	9							
SB-020(A)	SB-020(A)-9'	3/31/2004	9							
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5							
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5							
SB-027(A)	SB-027 (A)-11	9/14/2005	11							
SB-027(A)	SB-027 (A)-11	9/14/2005	11							
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5							
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5							
SB-100(C)	SB100(C)3	8/22/2002	3							
SB-100(C)	SB100(C)3	8/22/2002	3							
SB-100(C)	SB100(C)20	8/22/2002	20							

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Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-100(C)	SB100(C)20	8/22/2002	20							
SB-101(C)	SB101(C)3	8/22/2002	3							
SB-101(C)	SB101(C)18	8/22/2002	18							
SB-102(C)	SB102(C)1-3	8/22/2002	2							
SB-102(C)	SB102(C)18	8/22/2002	18							
SB-103(C)	SB103(C)3	8/22/2002	3							
SB-103(C)	SB103(C)18	8/22/2002	18							
SB-104(C)	SB104(C)4	8/22/2002	4							
SB-104(C)	SB104(C)20	8/22/2002	20							
SB-200(C)	SB200(C)3	8/22/2002	3							
SB-200(C)	SB200(C)3	8/22/2002	3							
SB-200(C)	SB200(C)6	8/22/2002	6							
SB-200(C)	SB200(C)6	8/22/2002	6							
SB-201(C)	SB201(C)3	8/22/2002	3							
SB-201(C)	SB201(C)3	8/22/2002	3							
SB-201(C)	SB201(C)6	8/22/2002	6							
SB-201(C)	SB201(C)6	8/22/2002	6							
SB-202(C)	SB202(C)2	8/22/2002	2							
SB-202(C)	SB202(C)2	8/22/2002	2							
SB-202(C)	SB202(C)3	8/22/2002	3							
SB-202(C)	SB202(C)3	8/22/2002	3							
SB-202(C)	SB202(C)7	8/22/2002	7							
SB-202(C)	SB202(C)7	8/22/2002	7							
SB-203(C)	SB203(C)3	8/22/2002	3							
SB-203(C)	SB203(C)3	8/22/2002	3							
SB-203(C)	SB203(C)7	8/22/2002	7							
SB-203(C)	SB203(C)7	8/22/2002	7							
SB-204(C)	SB204(C)3	8/22/2002	3							
SB-204(C)	SB204(C)3	8/22/2002	3							
SB-204(C)	SB204(C)8	8/22/2002	8							
SB-204(C)	SB204(C)8	8/22/2002	8							
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5							
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5							
SB-206(C)	SB206(C)-6	8/27/2002	6							
SB-206(C)	SB206(C)-6	8/27/2002	6							
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5							
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5							
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5							
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5							
SB-209(C)	SB209(C)-3	8/27/2002	3							
SB-209(C)	SB209(C)-3	8/27/2002	3							
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5							
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5							
SB-211(C)	SB211(C)-3	8/27/2002	3							
SB-211(C)	SB211(C)-3	8/27/2002	3							
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5							
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5							
SB-213(C)	SB213(C)-4	8/27/2002	4							
SB-213(C)	SB213(C)-4	8/27/2002	4							
SB-214(C)	SB214(C)-5	8/27/2002	5							
SB-214(C)	SB214(C)-5	8/27/2002	5							
SB-215(C)	SB215(C)-5	8/27/2002	5							
SB-215(C)	SB215(C)-5	8/27/2002	5							
SB-216(C)	SB216(C)-3	8/27/2002	3							
SB-216(C)	SB216(C)-3	8/27/2002	3							
SB-217(C)	SB217(C)-3	8/28/2002	3							
SB-217(C)	SB217(C)-3	8/28/2002	3							
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5							

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Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5							
SB-219(C)	SB219(C)-4	8/28/2002	4							
SB-219(C)	SB219(C)-4	8/28/2002	4							
SB-220(C)	SB220 (C)-5	8/28/2002	5							
SB-220(C)	SB220 (C)-5	8/28/2002	5							
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5							
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5							
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5							
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5							
SB-223(C)	SB223 (C)-6	8/29/2002	6							
SB-223(C)	SB223 (C)-6	8/29/2002	6							
SB-224(C)	SB224 (C)-2	8/29/2002	2							
SB-224(C)	SB224 (C)-2	8/29/2002	2							
SB-225(C)	SB225 (C)-3	8/29/2002	3							
SB-225(C)	SB225 (C)-3	8/29/2002	3							
SB-226(C)	SB226 (C)-3	8/29/2002	3							
SB-226(C)	SB226 (C)-3	8/29/2002	3							
SB-227(C)	SB227 (C)-8	8/29/2002	8							
SB-227(C)	SB227 (C)-8	8/29/2002	8							
SB-228(C)	SB228 (C)-4	8/29/2002	4							
SB-228(C)	SB228 (C)-4	8/29/2002	4							
SB-229(C)	SB229 (C)-8	8/29/2002	8							
SB-229(C)	SB229 (C)-8	8/29/2002	8							
SB-230(C)	SB230 (C)-8	8/29/2002	8							
SB-230(C)	SB230 (C)-8	8/29/2002	8							
SB-231(C)	SB231 (C)-2	8/29/2002	2							
SB-231(C)	SB231 (C)-2	8/29/2002	2							
SB-232(C)	SB 232 (C)-8	8/30/2002	8							
SB-232(C)	SB 232 (C)-8	8/30/2002	8							
SB-233(C)	SB 233 (C)-3	8/30/2002	3							
SB-233(C)	SB 233 (C)-3	8/30/2002	3							
SB-234(C)	SB 234 (C)-8	8/30/2002	8							
SB-234(C)	SB 234 (C)-8	8/30/2002	8							
SB-235(C)	SB 235 (C)-6	8/30/2002	6							
SB-235(C)	SB 235 (C)-6	8/30/2002	6							
SB-236(C)	SB 236 (C)-6	8/30/2002	6							
SB-236(C)	SB 236 (C)-6	8/30/2002	6							
SB-237(C)	SB 237 (C)-6	8/30/2002	6							
SB-237(C)	SB 237 (C)-6	8/30/2002	6							
SB-238(C)	SB 238 (C)-3	8/30/2002	3							
SB-238(C)	SB 238 (C)-3	8/30/2002	3							
SB-239(C)	SB-239(C)-4	9/3/2002	4							
SB-239(C)	SB-239(C)-4	9/3/2002	4							
SB-240(C)	SB-240(C)-6	9/3/2002	6							
SB-240(C)	SB-240(C)-6	9/3/2002	6							
SB-241(C)	SB-241(C)-5	9/3/2002	5							
SB-241(C)	SB-241(C)-5	9/3/2002	5							
SB-242(C)	SB-242(C)-4	9/3/2002	4							
SB-242(C)	SB-242(C)-4	9/3/2002	4							
SB-243(C)	SB-243(C)-4	9/3/2002	4							
SB-243(C)	SB-243(C)-4	9/3/2002	4							
SB-244(C)	SB-244(C)-3	9/3/2002	3							
SB-244(C)	SB-244(C)-3	9/3/2002	3							
SB-245(C)	SB-245(C)-5	9/3/2002	5							
SB-245(C)	SB-245(C)-5	9/3/2002	5							
SB-246(C)	SB-246(C)-5	9/3/2002	5							
SB-246(C)	SB-246(C)-5	9/3/2002	5							
SB-247(C)	SB-247(C)-6	9/3/2002	6							
SB-247(C)	SB-247(C)-6	9/3/2002	6							

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Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-250(C)	SB-250(C)-4	9/9/2002	4							
SB-250(C)	SB-250(C)-4	9/9/2002	4							
SB-251(C)	SB-251(C)-4	9/9/2002	4							
SB-251(C)	SB-251(C)-4	9/9/2002	4							
SB-252(C)	SB-252(C)-5	9/9/2002	5							
SB-252(C)	SB-252(C)-5	9/9/2002	5							
SB-253(C)	SB-253(C)-2	9/4/2003	2							
SB-253(C)	SB-253(C)-2	9/4/2003	2							
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5							
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5							
SB-254(C)	SB-254(C)-2	9/4/2003	2							
SB-254(C)	SB-254(C)-2	9/4/2003	2							
SB-254(C)	SB-254(C)-7	9/4/2003	7							
SB-254(C)	SB-254(C)-7	9/4/2003	7							
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5							
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5							
SB-255(C)	SB-255(C)-7	9/4/2003	7							
SB-255(C)	SB-255(C)-7	9/4/2003	7							
SB-256(C)	SB256 (c) 6	3/31/2004	6							
SB-256(C)	SB256 (c) 6	3/31/2004	6							
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5							
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5							
SB-304(D)	SB-304-D-2.0	8/19/2002	2							
SB-304(D)	SB-304-D-2.0	8/19/2002	2							
SB-304(D)	SB-D-DUP-0819	8/19/2002	2							
SB-304(D)	SB-D-DUP-0819	8/19/2002	2							
SB-304(D)	SB-304-D-5.0	8/19/2002	5							
SB-304(D)	SB-304-D-5.0	8/19/2002	5							
SB-305(D)	SB-305-D-2.0	8/19/2002	2							
SB-305(D)	SB-305-D-2.0	8/19/2002	2							
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5							
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5							
SB-306(D)	SB-306-D-2.0	8/19/2002	2							
SB-306(D)	SB-306-D-2.0	8/19/2002	2							
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5							
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5							
SB-307(D)	SB-307-D-2.0	8/19/2002	2							
SB-307(D)	SB-307-D-2.0	8/19/2002	2							
SB-307(D)	SB-307-D-2.0	8/19/2002	2							
SB-309(D)	SB-309-D-2.0	8/19/2002	2							
SB-309(D)	SB-309-D-2.0	8/19/2002	2							
SB-309(D)	SB-309-D-5.0	8/19/2002	5							
SB-309(D)	SB-309-D-5.0	8/19/2002	5							
SB-309(D)	SB-309-D-5.0	8/19/2002	5							
SB-310(D)	SB-310-D-2.0	8/19/2002	2							
SB-310(D)	SB-310-D-2.0	8/19/2002	2							
SB-310(D)	SB-310-D-5.0	8/19/2002	5							
SB-310(D)	SB-310-D-5.0	8/19/2002	5							
SB-311(D)	SB-311-D-5.0	8/19/2002	5							
SB-311(D)	SB-311-D-5.0	8/19/2002	5							
SB-311(D)	SB-311-D-5.0	8/19/2002	5							
SB-312(D)	SB-312-D-5.0	8/19/2002	5							
SB-312(D)	SB-312-D-5.0	8/19/2002	5							
SB-312(D)	SB-312-D-5.0	8/19/2002	5							
SB-313(D)	SB-313-D-5.0	8/20/2002	5							
SB-313(D)	SB-313-D-18.0	8/20/2002	18							
SB-314(D)	SB-314-D-2.0	8/20/2002	2							
SB-314(D)	SB-314-D-10.0	8/20/2002	10							

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Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15							
SB-314(D)	SB-314-D-15.0	8/20/2002	15							
SB-314(D)	SB-314-D-15.0	8/20/2002	15							
SB-315(D)	SB-315-D-2.0	8/20/2002	2							
SB-315(D)	SB-315-D-2.0	8/20/2002	2							
SB-315(D)	SB-315-D-2.0	8/20/2002	2							
SB-315(D)	SB-315-D-5.0	8/20/2002	5							
SB-315(D)	SB-315-D-15.0	8/20/2002	15							
SB-315(D)	SB-315-D-15.0	8/20/2002	15							
SB-316(D)	SB-316-D-2.0	8/20/2002	2							
SB-316(D)	SB-316-D-2.0	8/20/2002	2							
SB-316(D)	SB-316-D-2.0	8/20/2002	2							
SB-316(D)	SB-316-D-5.0	8/20/2002	5							
SB-316(D)	SB-D-DUP-3	8/20/2002	5							
SB-316(D)	SB-D-DUP-3	8/20/2002	5							
SB-316(D)	SB-316-D-10.0	8/20/2002	10							
SB-316(D)	SB-316-D-10.0	8/20/2002	10							
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5							
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5							
SB-318(D)	SB-318-D-10.0	8/20/2002	10							
SB-318(D)	SB-318-D-15.0	8/20/2002	15							
SB-320(D)	SB-320(D)-2	9/10/2003	2							
SB-320(D)	SB-320(D)-5	9/10/2003	5							
SB-321(D)	SB-321(D)-2	9/9/2003	2							
SB-321(D)	SB-321(D)-5	9/9/2003	5							
SB-322(D)	SB-322(D)-2	9/10/2003	2							
SB-322(D)	SB-322(D)-5	9/10/2003	5							
SB-323(D)	SB-323(D)-7	9/10/2003	7							
SB-323(D)	SB-323(D)-7	9/10/2003	7							
SB-324(D)	SB-324(D)-2	9/10/2003	2							
SB-324(D)	SB-324(D)-5	9/10/2003	5							
SB-324(D)	SB-324(D)-10	9/10/2003	10							
SB-324(D)	SB-324(D)-15	9/10/2003	15							
SB-324(D)	SB-324(D)-DUP	9/10/2003	15							
SB-325(D)	SB-325(D)-2	9/10/2003	2							
SB-325(D)	SB-325(D)-DUP	9/10/2003	2							
SB-325(D)	SB-325(D)-5	9/10/2003	5							
SB-325(D)	SB-325(D)-10	9/10/2003	10							
SB-325(D)	SB-325(D)-15	9/10/2003	15							
SB-326(D)	SB-326(D)-2	9/9/2003	2							
SB-326(D)	SB-326(D)-5	9/9/2003	5							
SB-326(D)	SB-326(D)-10	9/9/2003	10							
SB-327(D)	SB-327(D)-2	9/10/2003	2							
SB-327(D)	SB-327(D)-5	9/10/2003	5							
SB-327(D)	SB-327(D)-10	9/10/2003	10							
SB-327(D)	SB-327(D)-15	9/10/2003	15							
SB-328(D)	SB-328(D)-2	9/10/2003	2							
SB-328(D)	SB-328(D)-5	9/10/2003	5							
SB-328(D)	SB-328(D)-10	9/10/2003	10							
SB-328(D)	SB-328(D)-15	9/10/2003	15							
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5							
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5							
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5							
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7							
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5							
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5							
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5							
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5							

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Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5							
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5							
SB-410(F)	SB-410(F)-2'	3/31/2004	2							
SB-410(F)	SB-410(F)-4'	3/31/2004	4							
SB-410(F)	SB-410(F)-4'	3/31/2004	4							
SB-410(F)	SB-410(F)-9'	3/31/2004	9							
SB-600(N)	SB-600(N)-7	9/13/2002	7							
SB-601(N)	SB-601(N)-3	9/13/2002	3							
SB-601(N)	SB-601(N)-3	9/13/2002	3							
SB-601(N)	SB-601(N)-7	9/13/2002	7							
SB-601(N)	SB-601(N)-7	9/13/2002	7							
SB-602(N)	SB-602(N)-3	9/13/2002	3							
SB-602(N)	SB-602(N)-7	9/13/2002	7							
SB-602(N)	SB-602(N)-7	9/13/2002	7							
SB-602(N)	SB-602(N)-7	9/13/2002	7							
SB-602(N)	SB-602(N)-7	9/13/2002	7							
SB-603(N)	SB-603(N)-7	9/13/2002	7							
SB-603(N)	SB-603(N)-7	9/13/2002	7							
SB-603(N)	SB-603(N)-7	9/13/2002	7							
SB-604(N)	SB-604(N)-3	9/13/2002	3							
SB-604(N)	SB-604(N)-7	9/13/2002	7							
SB-604(N)	SB-604(N)-7	9/13/2002	7							
SB-605(N)	SB-605(N)-3	9/13/2002	3							
SB-605(N)	SB-605(N)-3	9/13/2002	3							
SB-605(N)	SB-605(N)-7	9/13/2002	7							
SB-605(N)	SB-605(N)-7	9/13/2002	7							
SB-606(N)	SB-606(N)-3	9/13/2002	3							
SB-606(N)	SB-606(N)-7	9/13/2002	7							
SB-607(N)	SB-607(N)-11	9/13/2002	11							
SB-608(N)	SB-608(N)-3	9/13/2002	3							
SB-608(N)	SB-608(N)-3	9/13/2002	3							
SB-608(N)	SB-608(N)-6	9/13/2002	6							
SB-609(N)	SB-609(N)-3	9/13/2002	3							
SB-609(N)	SB-609(N)-7	9/13/2002	7							
SB-612(N)	SB-612 (N)-7	9/12/2002	7							
SB-612(N)	SB-612 (N)-7	9/12/2002	7							
SB-612(N)	SB-612 (N)-7	9/12/2002	7							
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5							
SB-614(N)	SB-614 (N)-7	9/12/2002	7							
SB-615(N)	SB-615 (N)-7	9/12/2002	7							
SB-616(N)	SB-616 (N)-7	9/12/2002	7							
SB-617(N)	SB-617 (N)-3	9/12/2002	3							
SB-617(N)	SB-617 (N)-3	9/12/2002	3							
SB-617(N)	SB-617 (N)-3	9/12/2002	3							
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5							
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5							
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1.65 U	80.5	1.65 U	1.65 U	1.65 U	5 U	5 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7							
SB-618(N)	SB-618 (N)-7	9/12/2002	7							
SB-619(N)	SB-619 (N)-7	9/12/2002	7							
SB-619(N)	SB-619 (N)-7	9/12/2002	7							
SB-619(N)	SB-619 (N)-7	9/12/2002	7							
SB-619(N)	SB-619 (N)-11	9/12/2002	11							
SB-619(N)	SB-619 (N)-11	9/12/2002	11							
SB-619(N)	SB-619 (N)-11	9/12/2002	11							
SB-619(N)	SB-619 (N)-11	9/12/2002	11							
SB-620(N)	SB-620 (N)-3	9/12/2002	3							
SB-620(N)	SB-620 (N)-7	9/12/2002	7							

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-620(N)	SB-620 (N)-7	9/12/2002	7							
SB-620(N)	SB-620 (N)-7	9/12/2002	7							
SB-620(N)	SB-620 (N)-7	9/12/2002	7							
SB-621(N)	SB-621 (N)-7	9/12/2002	7							
SB-622(N)	SB-622 (N)-2	9/12/2002	2							
SB-622(N)	SB-622 (N)-7	9/12/2002	7							
SB-622(N)	SB-622 (N)-7	9/12/2002	7							
SB-623(N)	SB-623 (N)-7	9/12/2002	7							
SB-623(N)	SB-623 (N)-7	9/12/2002	7							
SB-624(N)	SB-624 (N)-2	9/12/2002	2							
SB-624(N)	SB-624 (N)-7	9/12/2002	7	3.3 U	38.1	3.3 U	3.3 U	3.3 U	10 U	10 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7							
SB-625(N)	SB-625 (N)-2	9/12/2002	2							
SB-625(N)	SB-625 (N)-7	9/12/2002	7							
SB-625(N)	SB-625 (N)-7	9/12/2002	7							
SB-625(N)	SB-625 (N)-7	9/12/2002	7							
SB-625(N)	SB-625 (N)-10	9/12/2002	10							
SB-626(N)	SB-626 (N)-7	9/12/2002	7							
SB-626(N)	SB-626 (N)-7	9/12/2002	7							
SB-626(N)	SB-626 (N)-7	9/12/2002	7							
SB-627(N)	SB-627(N)-2	8/28/2003	2							
SB-627(N)	SB-627(N)-2	8/28/2003	2							
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5							
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5							
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5							
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5							
SB-700(P)	SB-700(P)-3	8/21/2002	3							
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5							
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5							
SB-701(P)	SB-701(P)-2	8/20/2002	2							
SB-701(P)	SB-701(P)-11	8/20/2002	11							
SB-701(P)	SB-701(P)-11	8/20/2002	11							
SB-701(P)	SB-701(P)-12	8/20/2002	12							
SB-702(P)	SB-702(P)-2	8/21/2002	2							
SB-702(P)	SB-702(P)-11	8/21/2002	11							
SB-702(P)	SB-702(P)-11	8/21/2002	11							
SB-703(P)	SB-703(P)-2	8/21/2002	2							
SB-703(P)	SB-703(P)-10	8/21/2002	10							
SB-704(P)	SB-704(P)-2	8/21/2002	2	6 U				6 U		
SB-704(P)	SB-704(P)-11	8/21/2002	11	2 U				2 U		
SB-705(P)	SB-705(P)-3	8/20/2002	3	6 U				6 U		
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	2 U				2 U		
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	6 U				6 U		
SB-705(P)	SB-705(P)-12	8/20/2002	12	2 U				2 U		
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5							
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5							
SB-707(P)	SB-707(P)-10	8/21/2002	10							
SB-707(P)	SB-707(P)-10	8/21/2002	10							
SB-708(P)	SB-708(P)-10	8/20/2002	10							
SB-709(P)	SB-709(P)-3	8/21/2002	3							
SB-709(P)	SB-709(P)-10	8/21/2002	10							
SB-709(P)	SB-709(P)-10	8/21/2002	10							
SB-710(P)	SB-710(P)-3	8/21/2002	3							
SB-710(P)	SB-710(P)-3	8/21/2002	3							
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5							
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5							
SB-711(P)	SB-711(P)-3	8/21/2002	3							
SB-711(P)	SB-711(P)-10	8/21/2002	10							

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Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-712(P)	SB-712(P)-2	8/21/2002	2							
SB-712(P)	SB-712(P)-2	8/21/2002	2							
SB-712(P)	SB-712(P)-10	8/21/2002	10							
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5							
SB-714(P)	SB-714(P)-10	8/21/2002	10							
SB-716(P)	SB-716(P)-3	8/20/2002	3							
SB-716(P)	SB-716(P)-10	8/20/2002	10							
SB-716(P)	SB-716(P)-10	8/20/2002	10							
SB-717(P)	SB-717(P)-3	8/20/2002	3							
SB-717(P)	SB-717(P)-10	8/20/2002	10							
SB-719(P)	SB-719(P)-12	8/23/2002	12							
SB-720(P)	SB-720(P)-2	8/23/2002	2							
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5							
SB-721(P)	SB-721(P)-7'	3/31/2004	7							
SB-721(P)	SB-721(P)-7'	3/31/2004	7							
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-							
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-							
SB-834(Q)	SB-834(Q)-2	9/5/2003	2							
SB-834(Q)	SB-834(Q)-2	9/5/2003	2							
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5							
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5							
SB-835(Q)	SB-835(Q)-2	9/5/2003	2							
SB-835(Q)	SB-835(Q)-2	9/5/2003	2							
SB-835(Q)	SB-835(Q)-7	9/5/2003	7							
SB-835(Q)	SB-835(Q)-7	9/5/2003	7							
SB-900(S)	SB-900(S)-4	8/26/2002	4							
SB-900(S)	SB-900(S)-4	8/26/2002	4							
SB-900(S)	SB-900(S)-12	8/26/2002	12							
SB-900(S)	SB-900(S)-12	8/26/2002	12							
SB-902(S)	SB-902 (S)-12	8/26/2002	12							
SB-902(S)	SB-902 (S)-12	8/26/2002	12							
SB-903(S)	SB-903 (S)-10	8/26/2002	10							
SB-903(S)	SB-903 (S)-10	8/26/2002	10							
SB-904(S)	SB-904 (S)-12	8/26/2002	12							
SB-904(S)	SB-904 (S)-12	8/26/2002	12							
SB-905(S)	SB-905 (S)-12	8/26/2002	12							
SB-905(S)	SB-905 (S)-12	8/26/2002	12							
SB-906(S)	SB-906 (S)-4	8/27/2002	4							
SB-906(S)	SB-906 (S)-4	8/27/2002	4							
SB-906(S)	SB-906 (S)-12	8/27/2002	12							
SB-906(S)	SB-906 (S)-12	8/27/2002	12							
SB-908(S)	SB-908 (S)-4	8/27/2002	4							
SB-908(S)	SB-908 (S)-4	8/27/2002	4							
SB-908(S)	SB-908 (S)-8	8/27/2002	8							
SB-908(S)	SB-908 (S)-8	8/27/2002	8							
SB-908(S)	SB-908 (S)-10	8/27/2002	10							
SB-908(S)	SB-908 (S)-10	8/27/2002	10							
SB-909(S)	SB-909 (S)-4	8/27/2002	4							
SB-910(S)	SB-910 (S)-4	8/27/2002	4							
SB-910(S)	SB-910 (S)-4	8/27/2002	4							
SB-912(S)	SB-912(S)-2	9/3/2003	2							
SB-912(S)	SB-912(S)-2	9/3/2003	2							
SB-912(S)	SB-912(S)-7	9/3/2003	7							
SB-912(S)	SB-912(S)-7	9/3/2003	7							
SB-913(S)	SB-913(S)-2	9/3/2003	2							
SB-913(S)	SB-913(S)-2	9/3/2003	2							
SB-913(S)	SB-913(S)-7	9/3/2003	7							

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-913(S)	SB-913(S)-7	9/3/2003	7							
SB-914(S)	SB-914(S)-2	9/3/2003	2							
SB-914(S)	SB-914(S)-2	9/3/2003	2							
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5							
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5							
SB-915(S)	SB-915(s)-5.0	3/31/2004	5							
TP-201(C)	TP201(C)6E	8/27/2002	-							
TP-201(C)	TP201(C)6E	8/27/2002	-							
TP-202(C)	TP202(C)6W	8/27/2002	-							
TP-202(C)	TP202(C)6W	8/27/2002	-							

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Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
EX-2(S)	Ex-2/S-1	3/30/2004	-					0.0134 U	0.0134 U	0.0134 U	0.0076 J	0.00973 J
EX-3(S)	Ex-3/S-1	3/31/2004	-					0.067 U	0.067 U	0.0202 J	0.0967	0.102
EX-4(S)	Ex-4/S-1	3/29/2004	-					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5					0.0134 U	0.0134 U	0.00516 J	0.0134 U	0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5									
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5									
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5									
SB-003(A)	SB-003(A)-5	9/4/2003	5					0.0268 U	0.0268 U	0.0268 U	0.0105 J	0.0145 J
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5									
SB-005(A)	SB-005(A)-7	9/5/2003	7					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.00469 J
SB-005(A)	SB-005(A)-7	9/5/2003	7									
SB-006(A)	SB-006(A)-7'	3/31/2004	7					2.47	1 U	6.7 U	0.67 U	0.67 U
SB-006(A)	SB-006(A)-7'	3/31/2004	7									
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5					1.46 J	2.68 U	0.526	0.268 U	0.268 U
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5									
SB-008(A)	SB-008(A)-2	8/26/2003	2					0.0987 J	0.268 U	0.207 J	2.53	2.59
SB-008(A)	SB-008(A)-2	8/26/2003	2									
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5									
SB-009(A)	SB-009(A)-2	8/27/2003	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-009(A)	SB-009(A)-2	8/27/2003	2									
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5					2.68 U	2.68 U	2.17 J	0.268 U	0.268 U
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5									
SB-010(A)	SB-010(A)-2	8/27/2003	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-010(A)	SB-010(A)-2	8/27/2003	2									
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5									
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5									
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5									
SB-015(A)	SB-015(A)-7	9/10/2003	7					0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-015(A)	SB-015(A)-7	9/10/2003	7									
SB-016(A)	SB-016(A)-7	9/4/2003	7					0.0649 J	0.067 U	0.0466 J	0.067 U	0.067 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5									
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5									
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5					0.449 J	0.67 U	0.22 J	0.67 U	0.67 U
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5									
SB-020(A)	SB-020(A)-4'	3/31/2004	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-020(A)	SB-020(A)-4'	3/31/2004	4									
SB-020(A)	SB-020(A)-9'	3/31/2004	9					0.00651 J	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-020(A)	SB-020(A)-9'	3/31/2004	9									
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5					7.01	2.54 U	13.5 U	1.69 U	1.69 U
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5									
SB-027(A)	SB-027 (A)-11	9/14/2005	11					8.7	3.11 U	14.8 U	1.55 U	1.55 U
SB-027(A)	SB-027 (A)-11	9/14/2005	11									
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5					0.0169 U J	0.0169 U J	0.0169 U J	0.0169 U J	0.0169 U J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5									
SB-100(C)	SB100(C)3	8/22/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-100(C)	SB100(C)3	8/22/2002	3									
SB-100(C)	SB100(C)20	8/22/2002	20					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-100(C)	SB100(C)20	8/22/2002	20									
SB-101(C)	SB101(C)3	8/22/2002	3									
SB-101(C)	SB101(C)18	8/22/2002	18									
SB-102(C)	SB102(C)1-3	8/22/2002	2									
SB-102(C)	SB102(C)18	8/22/2002	18									
SB-103(C)	SB103(C)3	8/22/2002	3									
SB-103(C)	SB103(C)18	8/22/2002	18									
SB-104(C)	SB104(C)4	8/22/2002	4									
SB-104(C)	SB104(C)20	8/22/2002	20									
SB-200(C)	SB200(C)3	8/22/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-200(C)	SB200(C)3	8/22/2002	3									
SB-200(C)	SB200(C)6	8/22/2002	6					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-200(C)	SB200(C)6	8/22/2002	6									
SB-201(C)	SB201(C)3	8/22/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-201(C)	SB201(C)3	8/22/2002	3									
SB-201(C)	SB201(C)6	8/22/2002	6					0.0268 U	0.0268 U	0.0268 U	0.0342	0.031
SB-201(C)	SB201(C)6	8/22/2002	6									
SB-202(C)	SB202(C)2	8/22/2002	2					1.68 U	1.68 U	1.68 U	1.68 U	0.741 J
SB-202(C)	SB202(C)2	8/22/2002	2									
SB-202(C)	SB202(C)3	8/22/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-202(C)	SB202(C)3	8/22/2002	3									
SB-202(C)	SB202(C)7	8/22/2002	7					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-202(C)	SB202(C)7	8/22/2002	7									
SB-203(C)	SB203(C)3	8/22/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-203(C)	SB203(C)3	8/22/2002	3									
SB-203(C)	SB203(C)7	8/22/2002	7					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-203(C)	SB203(C)7	8/22/2002	7									
SB-204(C)	SB204(C)3	8/22/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-204(C)	SB204(C)3	8/22/2002	3									
SB-204(C)	SB204(C)8	8/22/2002	8					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-204(C)	SB204(C)8	8/22/2002	8									
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5									
SB-206(C)	SB206(C)-6	8/27/2002	6					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-206(C)	SB206(C)-6	8/27/2002	6									
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5									
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5									
SB-209(C)	SB209(C)-3	8/27/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-209(C)	SB209(C)-3	8/27/2002	3									
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5									
SB-211(C)	SB211(C)-3	8/27/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.011 J
SB-211(C)	SB211(C)-3	8/27/2002	3									
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5									
SB-213(C)	SB213(C)-4	8/27/2002	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-213(C)	SB213(C)-4	8/27/2002	4									
SB-214(C)	SB214(C)-5	8/27/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-214(C)	SB214(C)-5	8/27/2002	5									
SB-215(C)	SB215(C)-5	8/27/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-215(C)	SB215(C)-5	8/27/2002	5									
SB-216(C)	SB216(C)-3	8/27/2002	3					0.0117 J	0.0134 U	0.0117 J	0.00632 J	0.00491 J
SB-216(C)	SB216(C)-3	8/27/2002	3									
SB-217(C)	SB217(C)-3	8/28/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-217(C)	SB217(C)-3	8/28/2002	3									
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5									
SB-219(C)	SB219(C)-4	8/28/2002	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-219(C)	SB219(C)-4	8/28/2002	4									
SB-220(C)	SB220 (C)-5	8/28/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-220(C)	SB220 (C)-5	8/28/2002	5									
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5									
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5									
SB-223(C)	SB223 (C)-6	8/29/2002	6					0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-223(C)	SB223 (C)-6	8/29/2002	6									
SB-224(C)	SB224 (C)-2	8/29/2002	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-224(C)	SB224 (C)-2	8/29/2002	2									
SB-225(C)	SB225 (C)-3	8/29/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-225(C)	SB225 (C)-3	8/29/2002	3									
SB-226(C)	SB226 (C)-3	8/29/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-226(C)	SB226 (C)-3	8/29/2002	3									
SB-227(C)	SB227 (C)-8	8/29/2002	8					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-227(C)	SB227 (C)-8	8/29/2002	8									
SB-228(C)	SB228 (C)-4	8/29/2002	4					0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0241 J
SB-228(C)	SB228 (C)-4	8/29/2002	4									
SB-229(C)	SB229 (C)-8	8/29/2002	8					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-229(C)	SB229 (C)-8	8/29/2002	8									
SB-230(C)	SB230 (C)-8	8/29/2002	8					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-230(C)	SB230 (C)-8	8/29/2002	8									
SB-231(C)	SB231 (C)-2	8/29/2002	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-231(C)	SB231 (C)-2	8/29/2002	2									
SB-232(C)	SB 232 (C)-8	8/30/2002	8					0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8									
SB-233(C)	SB 233 (C)-3	8/30/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3									
SB-234(C)	SB 234 (C)-8	8/30/2002	8					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8									
SB-235(C)	SB 235 (C)-6	8/30/2002	6					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6									
SB-236(C)	SB 236 (C)-6	8/30/2002	6					0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6									
SB-237(C)	SB 237 (C)-6	8/30/2002	6					0.0152	0.0134 U	0.0118 J	0.0134 U	0.0134 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6									
SB-238(C)	SB 238 (C)-3	8/30/2002	3					0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-238(C)	SB 238 (C)-3	8/30/2002	3									
SB-239(C)	SB-239(C)-4	9/3/2002	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-239(C)	SB-239(C)-4	9/3/2002	4									
SB-240(C)	SB-240(C)-6	9/3/2002	6					0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-240(C)	SB-240(C)-6	9/3/2002	6									
SB-241(C)	SB-241(C)-5	9/3/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-241(C)	SB-241(C)-5	9/3/2002	5									
SB-242(C)	SB-242(C)-4	9/3/2002	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-242(C)	SB-242(C)-4	9/3/2002	4									
SB-243(C)	SB-243(C)-4	9/3/2002	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-243(C)	SB-243(C)-4	9/3/2002	4									
SB-244(C)	SB-244(C)-3	9/3/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-244(C)	SB-244(C)-3	9/3/2002	3									
SB-245(C)	SB-245(C)-5	9/3/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-245(C)	SB-245(C)-5	9/3/2002	5									
SB-246(C)	SB-246(C)-5	9/3/2002	5					0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-246(C)	SB-246(C)-5	9/3/2002	5									
SB-247(C)	SB-247(C)-6	9/3/2002	6					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-247(C)	SB-247(C)-6	9/3/2002	6									

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-250(C)	SB-250(C)-4	9/9/2002	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-250(C)	SB-250(C)-4	9/9/2002	4									
SB-251(C)	SB-251(C)-4	9/9/2002	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-251(C)	SB-251(C)-4	9/9/2002	4									
SB-252(C)	SB-252(C)-5	9/9/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-252(C)	SB-252(C)-5	9/9/2002	5									
SB-253(C)	SB-253(C)-2	9/4/2003	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-253(C)	SB-253(C)-2	9/4/2003	2									
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5									
SB-254(C)	SB-254(C)-2	9/4/2003	2					0.02 J	0.067 U	0.0598 J	0.117	0.167
SB-254(C)	SB-254(C)-2	9/4/2003	2									
SB-254(C)	SB-254(C)-7	9/4/2003	7					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-254(C)	SB-254(C)-7	9/4/2003	7									
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5					0.357	0.168 U	1.79	0.27	0.118 J
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5									
SB-255(C)	SB-255(C)-7	9/4/2003	7					7.4	0.953	3.72	4.43	5.84
SB-255(C)	SB-255(C)-7	9/4/2003	7									
SB-256(C)	SB256 (c) 6	3/31/2004	6					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-256(C)	SB256 (c) 6	3/31/2004	6									
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5					0.257	0.067 U	0.286	0.067 U	0.067 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5									
SB-304(D)	SB-304-D-2.0	8/19/2002	2					0.345	0.134 U	0.0478 J	0.134 U	0.134 U
SB-304(D)	SB-304-D-2.0	8/19/2002	2									
SB-304(D)	SB-D-DUP-0819	8/19/2002	2					0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-304(D)	SB-D-DUP-0819	8/19/2002	2									
SB-304(D)	SB-304-D-5.0	8/19/2002	5					0.086	0.067 U	0.067 U	0.067 U	0.067 U
SB-304(D)	SB-304-D-5.0	8/19/2002	5									
SB-305(D)	SB-305-D-2.0	8/19/2002	2					0.0702	0.067 U	0.032	0.0134 U	0.0134 U
SB-305(D)	SB-305-D-2.0	8/19/2002	2									
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5					0.00887 J	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5									
SB-306(D)	SB-306-D-2.0	8/19/2002	2					0.494	0.134 U	0.0877 J	0.134 U	0.134 U
SB-306(D)	SB-306-D-2.0	8/19/2002	2									
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5					0.841	0.134 U	0.175	0.134 U	0.134 U
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5									
SB-307(D)	SB-307-D-2.0	8/19/2002	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-2.0	8/19/2002	2					0.272	0.067 U	0.0826	0.067 U	0.067 U
SB-309(D)	SB-309-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-5.0	8/19/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-310(D)	SB-310-D-2.0	8/19/2002	2					0.0115 J	0.0134 U	0.00393 J	0.0134 U	0.0134 U
SB-310(D)	SB-310-D-2.0	8/19/2002	2									
SB-310(D)	SB-310-D-5.0	8/19/2002	5					0.325	0.134 U	0.0572 J	0.134 U	0.134 U
SB-310(D)	SB-310-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5					0.0268 U	0.139	0.0166 J	0.265	0.405
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-313(D)	SB-313-D-5.0	8/20/2002	5									
SB-313(D)	SB-313-D-18.0	8/20/2002	18									
SB-314(D)	SB-314-D-2.0	8/20/2002	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-314(D)	SB-314-D-10.0	8/20/2002	10					0.414	0.134 U	1.34 U	0.005 J	0.0134 U

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-314(D)	SB-314-D-15.0	8/20/2002	15									
SB-314(D)	SB-314-D-15.0	8/20/2002	15									
SB-315(D)	SB-315-D-2.0	8/20/2002	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-5.0	8/20/2002	5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15									
SB-315(D)	SB-315-D-15.0	8/20/2002	15									
SB-316(D)	SB-316-D-2.0	8/20/2002	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-5.0	8/20/2002	5									
SB-316(D)	SB-D-DUP-3	8/20/2002	5					0.00889 J	0.0268 U	0.0268 U	0.0268 U	0.0268 U
SB-316(D)	SB-D-DUP-3	8/20/2002	5									
SB-316(D)	SB-316-D-10.0	8/20/2002	10					0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-316(D)	SB-316-D-10.0	8/20/2002	10									
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5									
SB-318(D)	SB-318-D-10.0	8/20/2002	10									
SB-318(D)	SB-318-D-15.0	8/20/2002	15									
SB-320(D)	SB-320(D)-2	9/10/2003	2									
SB-320(D)	SB-320(D)-5	9/10/2003	5									
SB-321(D)	SB-321(D)-2	9/9/2003	2									
SB-321(D)	SB-321(D)-5	9/9/2003	5									
SB-322(D)	SB-322(D)-2	9/10/2003	2									
SB-322(D)	SB-322(D)-5	9/10/2003	5									
SB-323(D)	SB-323(D)-7	9/10/2003	7					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-323(D)	SB-323(D)-7	9/10/2003	7									
SB-324(D)	SB-324(D)-2	9/10/2003	2									
SB-324(D)	SB-324(D)-5	9/10/2003	5									
SB-324(D)	SB-324(D)-10	9/10/2003	10									
SB-324(D)	SB-324(D)-15	9/10/2003	15									
SB-324(D)	SB-324(D)-DUP	9/10/2003	15									
SB-325(D)	SB-325(D)-2	9/10/2003	2									
SB-325(D)	SB-325(D)-DUP	9/10/2003	2									
SB-325(D)	SB-325(D)-5	9/10/2003	5									
SB-325(D)	SB-325(D)-10	9/10/2003	10									
SB-325(D)	SB-325(D)-15	9/10/2003	15									
SB-326(D)	SB-326(D)-2	9/9/2003	2									
SB-326(D)	SB-326(D)-5	9/9/2003	5									
SB-326(D)	SB-326(D)-10	9/9/2003	10									
SB-327(D)	SB-327(D)-2	9/10/2003	2									
SB-327(D)	SB-327(D)-5	9/10/2003	5									
SB-327(D)	SB-327(D)-10	9/10/2003	10									
SB-327(D)	SB-327(D)-15	9/10/2003	15									
SB-328(D)	SB-328(D)-2	9/10/2003	2									
SB-328(D)	SB-328(D)-5	9/10/2003	5									
SB-328(D)	SB-328(D)-10	9/10/2003	10									
SB-328(D)	SB-328(D)-15	9/10/2003	15									
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5									
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5									
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5					0.0134 U	0.0134 U	0.0134 U	0.00903 J	0.0171
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7									
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5					0.067 U J	0.067 U J	0.0216 J	0.067 U J	0.067 U J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5									
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5					0.134 U	0.134 U	0.134 U	0.0134	0.0582
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5									

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Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5									
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-410(F)	SB-410(F)-2'	3/31/2004	2									
SB-410(F)	SB-410(F)-4'	3/31/2004	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-410(F)	SB-410(F)-4'	3/31/2004	4									
SB-410(F)	SB-410(F)-9'	3/31/2004	9									
SB-600(N)	SB-600(N)-7	9/13/2002	7									
SB-601(N)	SB-601(N)-3	9/13/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-601(N)	SB-601(N)-3	9/13/2002	3									
SB-601(N)	SB-601(N)-7	9/13/2002	7					0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-601(N)	SB-601(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-3	9/13/2002	3									
SB-602(N)	SB-602(N)-7	9/13/2002	7					1 U	1 U	0.1 U	0.1 U	0.1 U
SB-602(N)	SB-602(N)-7	9/13/2002	7					0.565	0.181	1 U	1 U	1 U
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7					0.134	0.067 U	0.067 U	0.067 U	0.067 U
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-604(N)	SB-604(N)-3	9/13/2002	3									
SB-604(N)	SB-604(N)-7	9/13/2002	7					0.67 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-604(N)	SB-604(N)-7	9/13/2002	7									
SB-605(N)	SB-605(N)-3	9/13/2002	3					0.0195	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-605(N)	SB-605(N)-3	9/13/2002	3									
SB-605(N)	SB-605(N)-7	9/13/2002	7					0.529	0.134 U	0.134 U	0.134 U	0.134 U
SB-605(N)	SB-605(N)-7	9/13/2002	7									
SB-606(N)	SB-606(N)-3	9/13/2002	3									
SB-606(N)	SB-606(N)-7	9/13/2002	7									
SB-607(N)	SB-607(N)-11	9/13/2002	11									
SB-608(N)	SB-608(N)-3	9/13/2002	3					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-608(N)	SB-608(N)-3	9/13/2002	3									
SB-608(N)	SB-608(N)-6	9/13/2002	6									
SB-609(N)	SB-609(N)-3	9/13/2002	3									
SB-609(N)	SB-609(N)-7	9/13/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7					0.484	0.149	0.149	0.1 U	0.1 U
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5									
SB-614(N)	SB-614 (N)-7	9/12/2002	7									
SB-615(N)	SB-615 (N)-7	9/12/2002	7									
SB-616(N)	SB-616 (N)-7	9/12/2002	7									
SB-617(N)	SB-617 (N)-3	9/12/2002	3					0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5									
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5									
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1.65 U	10 U	1.65 U	5 U	1.65 U	1.65 U	1.65 U	1.65 U	1.65 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7									
SB-618(N)	SB-618 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7					0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-11	9/12/2002	11					0.351	0.0543	0.294	0.01 U	0.01 U
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-620(N)	SB-620 (N)-3	9/12/2002	3									
SB-620(N)	SB-620 (N)-7	9/12/2002	7					0.758	0.159	0.558	0.0123	0.01 U

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Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-621(N)	SB-621 (N)-7	9/12/2002	7									
SB-622(N)	SB-622 (N)-2	9/12/2002	2									
SB-622(N)	SB-622 (N)-7	9/12/2002	7									
SB-622(N)	SB-622 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-624(N)	SB-624 (N)-2	9/12/2002	2									
SB-624(N)	SB-624 (N)-7	9/12/2002	7	3.3 U	20 U	3.3 U	10 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-2	9/12/2002	2									
SB-625(N)	SB-625 (N)-7	9/12/2002	7					0.0203	0.0275	0.275	0.01 U	0.01 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-10	9/12/2002	10									
SB-626(N)	SB-626 (N)-7	9/12/2002	7					0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-627(N)	SB-627(N)-2	8/28/2003	2					0.067 U	0.067 U	0.067 U	0.0387 J	0.0577 J
SB-627(N)	SB-627(N)-2	8/28/2003	2									
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5					3.02 U	1.34 U	1.35	0.67 U	0.67 U
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5									
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5					0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5									
SB-700(P)	SB-700(P)-3	8/21/2002	3									
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5					0.0346	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5									
SB-701(P)	SB-701(P)-2	8/20/2002	2									
SB-701(P)	SB-701(P)-11	8/20/2002	11					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-701(P)	SB-701(P)-11	8/20/2002	11									
SB-701(P)	SB-701(P)-12	8/20/2002	12									
SB-702(P)	SB-702(P)-2	8/21/2002	2									
SB-702(P)	SB-702(P)-11	8/21/2002	11					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-702(P)	SB-702(P)-11	8/21/2002	11									
SB-703(P)	SB-703(P)-2	8/21/2002	2									
SB-703(P)	SB-703(P)-10	8/21/2002	10									
SB-704(P)	SB-704(P)-2	8/21/2002	2	6 U			6 U					
SB-704(P)	SB-704(P)-11	8/21/2002	11	2 U			2 U					
SB-705(P)	SB-705(P)-3	8/20/2002	3	6 U			6 U					
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	2 U			2 U					
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	6 U			6 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-705(P)	SB-705(P)-12	8/20/2002	12	2 U			2 U					
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5									
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10									
SB-708(P)	SB-708(P)-10	8/20/2002	10					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-709(P)	SB-709(P)-3	8/21/2002	3									
SB-709(P)	SB-709(P)-10	8/21/2002	10									
SB-709(P)	SB-709(P)-10	8/21/2002	10									
SB-710(P)	SB-710(P)-3	8/21/2002	3					0.0268 U	0.0268 U	0.0268 U	0.0268 U	0.0117 J
SB-710(P)	SB-710(P)-3	8/21/2002	3									
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5									
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5									
SB-711(P)	SB-711(P)-3	8/21/2002	3									
SB-711(P)	SB-711(P)-10	8/21/2002	10									

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-712(P)	SB-712(P)-2	8/21/2002	2									
SB-712(P)	SB-712(P)-2	8/21/2002	2									
SB-712(P)	SB-712(P)-10	8/21/2002	10					0.215	0.0359 J	0.62	0.326	0.151
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5					0.833	0.268 U	1.34 U	0.0427	0.0284
SB-714(P)	SB-714(P)-10	8/21/2002	10									
SB-716(P)	SB-716(P)-3	8/20/2002	3									
SB-716(P)	SB-716(P)-10	8/20/2002	10					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-716(P)	SB-716(P)-10	8/20/2002	10									
SB-717(P)	SB-717(P)-3	8/20/2002	3									
SB-717(P)	SB-717(P)-10	8/20/2002	10									
SB-719(P)	SB-719(P)-12	8/23/2002	12					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-720(P)	SB-720(P)-2	8/23/2002	2					0.0076 J	0.0134 U	0.0139	0.225	0.238
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5					0.604	0.067 U	0.382	0.067 U	0.067 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7									
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-					0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-									
SB-834(Q)	SB-834(Q)-2	9/5/2003	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-834(Q)	SB-834(Q)-2	9/5/2003	2									
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5									
SB-835(Q)	SB-835(Q)-2	9/5/2003	2					0.0134 U	0.0134 U	0.0134 U	0.0108 J	0.0169
SB-835(Q)	SB-835(Q)-2	9/5/2003	2									
SB-835(Q)	SB-835(Q)-7	9/5/2003	7					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-835(Q)	SB-835(Q)-7	9/5/2003	7									
SB-900(S)	SB-900(S)-4	8/26/2002	4					0.0134 U	0.0134 U	0.00544 J	0.00997 J	0.00982 J
SB-900(S)	SB-900(S)-4	8/26/2002	4									
SB-900(S)	SB-900(S)-12	8/26/2002	12					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-900(S)	SB-900(S)-12	8/26/2002	12									
SB-902(S)	SB-902 (S)-12	8/26/2002	12					0.134 U	0.067 U	0.027	0.067 U	0.0134 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12									
SB-903(S)	SB-903 (S)-10	8/26/2002	10					1.68 U	0.335 U	0.359	0.335 U	0.0134 U
SB-903(S)	SB-903 (S)-10	8/26/2002	10									
SB-904(S)	SB-904 (S)-12	8/26/2002	12					1.49	0.335 U	0.43	0.335 U	0.0134 U
SB-904(S)	SB-904 (S)-12	8/26/2002	12									
SB-905(S)	SB-905 (S)-12	8/26/2002	12					0.067 U	0.067 U	0.067 U	0.067 U	0.0134 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12									
SB-906(S)	SB-906 (S)-4	8/27/2002	4					0.067 U	0.067 U	0.067 U	0.0134 U	0.0134 U
SB-906(S)	SB-906 (S)-4	8/27/2002	4									
SB-906(S)	SB-906 (S)-12	8/27/2002	12					0.633	0.335 U	0.379	0.0208	0.00686 J
SB-906(S)	SB-906 (S)-12	8/27/2002	12									
SB-908(S)	SB-908 (S)-4	8/27/2002	4					1.34 U	0.67 U	1.34 U	0.254 J	0.148 J
SB-908(S)	SB-908 (S)-4	8/27/2002	4									
SB-908(S)	SB-908 (S)-8	8/27/2002	8					0.67 U	0.67 U	0.67 U	0.67 U	0.0809 J
SB-908(S)	SB-908 (S)-8	8/27/2002	8									
SB-908(S)	SB-908 (S)-10	8/27/2002	10					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10									
SB-909(S)	SB-909 (S)-4	8/27/2002	4					0.134 U	0.134 U	0.134 U	0.134 U	0.134 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4									
SB-912(S)	SB-912(S)-2	9/3/2003	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-912(S)	SB-912(S)-2	9/3/2003	2									
SB-912(S)	SB-912(S)-7	9/3/2003	7					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-912(S)	SB-912(S)-7	9/3/2003	7									
SB-913(S)	SB-913(S)-2	9/3/2003	2					0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
SB-913(S)	SB-913(S)-2	9/3/2003	2									
SB-913(S)	SB-913(S)-7	9/3/2003	7					0.335 U	0.335 U	0.335 U	0.335 U	0.335 U

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a) pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-913(S)	SB-913(S)-7	9/3/2003	7									
SB-914(S)	SB-914(S)-2	9/3/2003	2					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-914(S)	SB-914(S)-2	9/3/2003	2									
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5									
SB-915(S)	SB-915(s)-5.0	3/31/2004	5					0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TP-201(C)	TP201(C)6E	8/27/2002	-					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
TP-201(C)	TP201(C)6E	8/27/2002	-									
TP-202(C)	TP202(C)6W	8/27/2002	-					0.0134 U	0.0134 U	0.0134 U	0.0134 U	0.0134 U
TP-202(C)	TP202(C)6W	8/27/2002	-									

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-	0.0134 U	0.0111	0.0134 U					0.00424	0.0134 U
EX-2(S)	Ex-2/S-1	3/30/2004	-	0.00986 J	0.0184	0.00631 J					0.0114 J	0.0134 U
EX-3(S)	Ex-3/S-1	3/31/2004	-	0.0941	0.089	0.0592 J					0.106	0.0233 J
EX-4(S)	Ex-4/S-1	3/29/2004	-	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5									
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5									
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5									
SB-003(A)	SB-003(A)-5	9/4/2003	5	0.0124 J	0.0299	0.0135 J					0.016 J	0.0268 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5									
SB-005(A)	SB-005(A)-7	9/5/2003	7	0.0134 U	0.00558 J	0.0134 U					0.0049 J	0.0134 U
SB-005(A)	SB-005(A)-7	9/5/2003	7									
SB-006(A)	SB-006(A)-7'	3/31/2004	7	0.67 U	0.67 U	0.67 U					0.67 U	0.67 U
SB-006(A)	SB-006(A)-7'	3/31/2004	7									
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	0.268 U	0.268 U	0.268 U					0.0797 J	0.268 U
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5									
SB-008(A)	SB-008(A)-2	8/26/2003	2	3.14	1.78	1.67					3.05	0.661
SB-008(A)	SB-008(A)-2	8/26/2003	2									
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5									
SB-009(A)	SB-009(A)-2	8/27/2003	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-009(A)	SB-009(A)-2	8/27/2003	2									
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	0.268 U	0.268 U	0.268 U					0.0798 J	0.268 U
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5									
SB-010(A)	SB-010(A)-2	8/27/2003	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-010(A)	SB-010(A)-2	8/27/2003	2									
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5									
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5									
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5									
SB-015(A)	SB-015(A)-7	9/10/2003	7	0.134 U	0.134 U	0.134 U					0.134 U	0.134 U
SB-015(A)	SB-015(A)-7	9/10/2003	7									
SB-016(A)	SB-016(A)-7	9/4/2003	7	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5									
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5									
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	0.67 U	0.67 U	0.67 U					0.67 U	0.67 U
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5									
SB-020(A)	SB-020(A)-4'	3/31/2004	4	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-020(A)	SB-020(A)-4'	3/31/2004	4									
SB-020(A)	SB-020(A)-9'	3/31/2004	9	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-020(A)	SB-020(A)-9'	3/31/2004	9									
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	1.69 U	1.69 U	1.69 U					1.69 U	1.69 U
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5									
SB-027(A)	SB-027 (A)-11	9/14/2005	11	1.55 U	1.55 U	1.55 U					1.55 U	1.55 U
SB-027(A)	SB-027 (A)-11	9/14/2005	11									
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	0.0169 U J	0.0169 U J	0.0169 U J					0.0169 U J	0.0169 U J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5									
SB-100(C)	SB100(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-100(C)	SB100(C)3	8/22/2002	3									
SB-100(C)	SB100(C)20	8/22/2002	20	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-100(C)	SB100(C)20	8/22/2002	20									
SB-101(C)	SB101(C)3	8/22/2002	3									
SB-101(C)	SB101(C)18	8/22/2002	18									
SB-102(C)	SB102(C)1-3	8/22/2002	2									
SB-102(C)	SB102(C)18	8/22/2002	18									
SB-103(C)	SB103(C)3	8/22/2002	3									
SB-103(C)	SB103(C)18	8/22/2002	18									
SB-104(C)	SB104(C)4	8/22/2002	4									
SB-104(C)	SB104(C)20	8/22/2002	20									
SB-200(C)	SB200(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-200(C)	SB200(C)3	8/22/2002	3									
SB-200(C)	SB200(C)6	8/22/2002	6	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-200(C)	SB200(C)6	8/22/2002	6									
SB-201(C)	SB201(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-201(C)	SB201(C)3	8/22/2002	3									
SB-201(C)	SB201(C)6	8/22/2002	6	0.0188 J	0.0209 J	0.0268 U					0.0843	0.0268 U
SB-201(C)	SB201(C)6	8/22/2002	6									
SB-202(C)	SB202(C)2	8/22/2002	2	1.68 U	0.472 J	1.68 U					1.51 J	1.68 U
SB-202(C)	SB202(C)2	8/22/2002	2									
SB-202(C)	SB202(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-202(C)	SB202(C)3	8/22/2002	3									
SB-202(C)	SB202(C)7	8/22/2002	7	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-202(C)	SB202(C)7	8/22/2002	7									
SB-203(C)	SB203(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-203(C)	SB203(C)3	8/22/2002	3									
SB-203(C)	SB203(C)7	8/22/2002	7	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-203(C)	SB203(C)7	8/22/2002	7									
SB-204(C)	SB204(C)3	8/22/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-204(C)	SB204(C)3	8/22/2002	3									
SB-204(C)	SB204(C)8	8/22/2002	8	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-204(C)	SB204(C)8	8/22/2002	8									
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.0268 U	0.0134 U	0.0268 U					0.0134 U	0.0134 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5									
SB-206(C)	SB206(C)-6	8/27/2002	6	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-206(C)	SB206(C)-6	8/27/2002	6									
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5									
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5									
SB-209(C)	SB209(C)-3	8/27/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-209(C)	SB209(C)-3	8/27/2002	3									
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5									
SB-211(C)	SB211(C)-3	8/27/2002	3	0.00371 J	0.0213	0.0134 U					0.0132 J	0.00545 J
SB-211(C)	SB211(C)-3	8/27/2002	3									
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5									
SB-213(C)	SB213(C)-4	8/27/2002	4	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-213(C)	SB213(C)-4	8/27/2002	4									
SB-214(C)	SB214(C)-5	8/27/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-214(C)	SB214(C)-5	8/27/2002	5									
SB-215(C)	SB215(C)-5	8/27/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-215(C)	SB215(C)-5	8/27/2002	5									
SB-216(C)	SB216(C)-3	8/27/2002	3	0.0134 U	0.00412 J	0.0134 U					0.0106 J	0.0134 U
SB-216(C)	SB216(C)-3	8/27/2002	3									
SB-217(C)	SB217(C)-3	8/28/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-217(C)	SB217(C)-3	8/28/2002	3									
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.0134 U	0.0134 U	0.0134 U					0.00477 J	0.0134 U

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5									
SB-219(C)	SB219(C)-4	8/28/2002	4	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-219(C)	SB219(C)-4	8/28/2002	4									
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-220(C)	SB220 (C)-5	8/28/2002	5									
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5									
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5									
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.0268 U	0.0268 U	0.0268 U					0.0268 U	0.0268 U
SB-223(C)	SB223 (C)-6	8/29/2002	6									
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-224(C)	SB224 (C)-2	8/29/2002	2									
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-225(C)	SB225 (C)-3	8/29/2002	3									
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-226(C)	SB226 (C)-3	8/29/2002	3									
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-227(C)	SB227 (C)-8	8/29/2002	8									
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.0255 J	0.0226 J	0.0268 U					0.0189 J	0.0268 U
SB-228(C)	SB228 (C)-4	8/29/2002	4									
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-229(C)	SB229 (C)-8	8/29/2002	8									
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-230(C)	SB230 (C)-8	8/29/2002	8									
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-231(C)	SB231 (C)-2	8/29/2002	2									
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.0268 U	0.0268 U	0.0268 U					0.0268 U	0.0268 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8									
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3									
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8									
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6									
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.0268 U	0.0268 U	0.0268 U					0.0268 U	0.0268 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6									
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.0134 U	0.0134 U	0.0134 U					0.00634 J	0.0134 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6									
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.0268 U	0.0268 U	0.0268 U					0.0268 U	0.0268 U
SB-238(C)	SB 238 (C)-3	8/30/2002	3									
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-239(C)	SB-239(C)-4	9/3/2002	4									
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.0268 U	0.0268 U	0.0268 U					0.0268 U	0.0268 U
SB-240(C)	SB-240(C)-6	9/3/2002	6									
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-241(C)	SB-241(C)-5	9/3/2002	5									
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-242(C)	SB-242(C)-4	9/3/2002	4									
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-243(C)	SB-243(C)-4	9/3/2002	4									
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-244(C)	SB-244(C)-3	9/3/2002	3									
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-245(C)	SB-245(C)-5	9/3/2002	5									
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.0268 U	0.0268 U	0.0268 U					0.0268 U	0.0268 U
SB-246(C)	SB-246(C)-5	9/3/2002	5									
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-247(C)	SB-247(C)-6	9/3/2002	6									

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Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-250(C)	SB-250(C)-4	9/9/2002	4									
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.0134 U	0.00629 J	0.0134 U					0.00363 J	0.0134 U
SB-251(C)	SB-251(C)-4	9/9/2002	4									
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-252(C)	SB-252(C)-5	9/9/2002	5									
SB-253(C)	SB-253(C)-2	9/4/2003	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-253(C)	SB-253(C)-2	9/4/2003	2									
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5									
SB-254(C)	SB-254(C)-2	9/4/2003	2	0.249	0.158	0.067 U					0.199	0.0439 J
SB-254(C)	SB-254(C)-2	9/4/2003	2									
SB-254(C)	SB-254(C)-7	9/4/2003	7	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-254(C)	SB-254(C)-7	9/4/2003	7									
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	0.151 J	0.0893 J	0.151 J					0.434	0.168 U
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5									
SB-255(C)	SB-255(C)-7	9/4/2003	7	3.48	6.39	3.54					5.39	0.694
SB-255(C)	SB-255(C)-7	9/4/2003	7									
SB-256(C)	SB256 (c) 6	3/31/2004	6	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-256(C)	SB256 (c) 6	3/31/2004	6									
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5									
SB-304(D)	SB-304-D-2.0	8/19/2002	2	0.134 U	0.134 U	0.134 U					0.134 U	0.134 U
SB-304(D)	SB-304-D-2.0	8/19/2002	2									
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-304(D)	SB-D-DUP-0819	8/19/2002	2									
SB-304(D)	SB-304-D-5.0	8/19/2002	5	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-304(D)	SB-304-D-5.0	8/19/2002	5									
SB-305(D)	SB-305-D-2.0	8/19/2002	2	0.0134 U	0.0134 U	0.0134 U					0.00442 J	0.0134 U
SB-305(D)	SB-305-D-2.0	8/19/2002	2									
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5									
SB-306(D)	SB-306-D-2.0	8/19/2002	2	0.134 U	0.134 U	0.134 U					0.134 U	0.134 U
SB-306(D)	SB-306-D-2.0	8/19/2002	2									
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	0.134 U	0.134 U	0.134 U					0.0408 J	0.134 U
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5									
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-307(D)	SB-307-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-2.0	8/19/2002	2	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-309(D)	SB-309-D-2.0	8/19/2002	2									
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-309(D)	SB-309-D-5.0	8/19/2002	5									
SB-310(D)	SB-310-D-2.0	8/19/2002	2	0.0134 U	0.0134 U	0.0134 U					0.00369 J	0.0134 U
SB-310(D)	SB-310-D-2.0	8/19/2002	2									
SB-310(D)	SB-310-D-5.0	8/19/2002	5	0.134 U	0.134 U	0.134 U					0.134 U	0.134 U
SB-310(D)	SB-310-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.447	0.599	0.384					0.374	0.112
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-311(D)	SB-311-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-312(D)	SB-312-D-5.0	8/19/2002	5									
SB-313(D)	SB-313-D-5.0	8/20/2002	5									
SB-313(D)	SB-313-D-18.0	8/20/2002	18									
SB-314(D)	SB-314-D-2.0	8/20/2002	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-314(D)	SB-314-D-10.0	8/20/2002	10	0.0134 U	0.0134 U	0.0134 U					0.0249	0.0134 U

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Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-314(D)	SB-314-D-15.0	8/20/2002	15									
SB-314(D)	SB-314-D-15.0	8/20/2002	15									
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-2.0	8/20/2002	2									
SB-315(D)	SB-315-D-5.0	8/20/2002	5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15									
SB-315(D)	SB-315-D-15.0	8/20/2002	15									
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-2.0	8/20/2002	2									
SB-316(D)	SB-316-D-5.0	8/20/2002	5									
SB-316(D)	SB-D-DUP-3	8/20/2002	5	0.0268 U	0.0268 U	0.0268 U					0.0268 U	0.0268 U
SB-316(D)	SB-D-DUP-3	8/20/2002	5									
SB-316(D)	SB-316-D-10.0	8/20/2002	10	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-316(D)	SB-316-D-10.0	8/20/2002	10									
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5									
SB-318(D)	SB-318-D-10.0	8/20/2002	10									
SB-318(D)	SB-318-D-15.0	8/20/2002	15									
SB-320(D)	SB-320(D)-2	9/10/2003	2									
SB-320(D)	SB-320(D)-5	9/10/2003	5									
SB-321(D)	SB-321(D)-2	9/9/2003	2									
SB-321(D)	SB-321(D)-5	9/9/2003	5									
SB-322(D)	SB-322(D)-2	9/10/2003	2									
SB-322(D)	SB-322(D)-5	9/10/2003	5									
SB-323(D)	SB-323(D)-7	9/10/2003	7	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-323(D)	SB-323(D)-7	9/10/2003	7									
SB-324(D)	SB-324(D)-2	9/10/2003	2									
SB-324(D)	SB-324(D)-5	9/10/2003	5									
SB-324(D)	SB-324(D)-10	9/10/2003	10									
SB-324(D)	SB-324(D)-15	9/10/2003	15									
SB-324(D)	SB-324(D)-DUP	9/10/2003	15									
SB-325(D)	SB-325(D)-2	9/10/2003	2									
SB-325(D)	SB-325(D)-DUP	9/10/2003	2									
SB-325(D)	SB-325(D)-5	9/10/2003	5									
SB-325(D)	SB-325(D)-10	9/10/2003	10									
SB-325(D)	SB-325(D)-15	9/10/2003	15									
SB-326(D)	SB-326(D)-2	9/9/2003	2									
SB-326(D)	SB-326(D)-5	9/9/2003	5									
SB-326(D)	SB-326(D)-10	9/9/2003	10									
SB-327(D)	SB-327(D)-2	9/10/2003	2									
SB-327(D)	SB-327(D)-5	9/10/2003	5									
SB-327(D)	SB-327(D)-10	9/10/2003	10									
SB-327(D)	SB-327(D)-15	9/10/2003	15									
SB-328(D)	SB-328(D)-2	9/10/2003	2									
SB-328(D)	SB-328(D)-5	9/10/2003	5									
SB-328(D)	SB-328(D)-10	9/10/2003	10									
SB-328(D)	SB-328(D)-15	9/10/2003	15									
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5									
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5									
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5	0.0122 J	0.0286	0.00808 J					0.0186	0.00415 J
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7									
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	0.067 U J	0.067 U J	0.067 U J					0.067 U J	0.067 U J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5									
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.0267	0.098	0.036					0.065 J	0.015
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5									

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Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5									
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-410(F)	SB-410(F)-2'	3/31/2004	2									
SB-410(F)	SB-410(F)-4'	3/31/2004	4	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-410(F)	SB-410(F)-4'	3/31/2004	4									
SB-410(F)	SB-410(F)-9'	3/31/2004	9									
SB-600(N)	SB-600(N)-7	9/13/2002	7									
SB-601(N)	SB-601(N)-3	9/13/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-601(N)	SB-601(N)-3	9/13/2002	3									
SB-601(N)	SB-601(N)-7	9/13/2002	7	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-601(N)	SB-601(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-3	9/13/2002	3									
SB-602(N)	SB-602(N)-7	9/13/2002	7	0.1 U	0.1 U	1 U					1 U	0.1 U
SB-602(N)	SB-602(N)-7	9/13/2002	7	1 U	1 U	0.1 U					0.1 U	1 U
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-602(N)	SB-602(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-603(N)	SB-603(N)-7	9/13/2002	7									
SB-604(N)	SB-604(N)-3	9/13/2002	3									
SB-604(N)	SB-604(N)-7	9/13/2002	7	0.134 U	0.134 U	0.134 U					0.134 U	0.134 U
SB-604(N)	SB-604(N)-7	9/13/2002	7									
SB-605(N)	SB-605(N)-3	9/13/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-605(N)	SB-605(N)-3	9/13/2002	3									
SB-605(N)	SB-605(N)-7	9/13/2002	7	0.134 U	0.134 U	0.134 U					0.134 U	0.134 U
SB-605(N)	SB-605(N)-7	9/13/2002	7									
SB-606(N)	SB-606(N)-3	9/13/2002	3									
SB-606(N)	SB-606(N)-7	9/13/2002	7									
SB-607(N)	SB-607(N)-11	9/13/2002	11									
SB-608(N)	SB-608(N)-3	9/13/2002	3	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-608(N)	SB-608(N)-3	9/13/2002	3									
SB-608(N)	SB-608(N)-6	9/13/2002	6									
SB-609(N)	SB-609(N)-3	9/13/2002	3									
SB-609(N)	SB-609(N)-7	9/13/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7	0.1 U	0.1 U	0.1 U					0.1 U	0.1 U
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-612(N)	SB-612 (N)-7	9/12/2002	7									
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5									
SB-614(N)	SB-614 (N)-7	9/12/2002	7									
SB-615(N)	SB-615 (N)-7	9/12/2002	7									
SB-616(N)	SB-616 (N)-7	9/12/2002	7									
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.01 U	0.01 U	0.01 U					0.01 U	0.01 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-3	9/12/2002	3									
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5									
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5									
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1.65 U	1.65 U	1.65 U	5 U	1.65 U	1.65 U	10 U	1.65 U	1.65 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7									
SB-618(N)	SB-618 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.01 U	0.01 U	0.01 U					0.01 U	0.01 U
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-7	9/12/2002	7									
SB-619(N)	SB-619 (N)-11	9/12/2002	11	0.01 U	0.01 U	0.01 U					0.0115	0.01 U
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-619(N)	SB-619 (N)-11	9/12/2002	11									
SB-620(N)	SB-620 (N)-3	9/12/2002	3									
SB-620(N)	SB-620 (N)-7	9/12/2002	7	0.013	0.01 U	0.0109					0.0362	0.01 U

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Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-620(N)	SB-620 (N)-7	9/12/2002	7									
SB-621(N)	SB-621 (N)-7	9/12/2002	7									
SB-622(N)	SB-622 (N)-2	9/12/2002	2									
SB-622(N)	SB-622 (N)-7	9/12/2002	7									
SB-622(N)	SB-622 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-623(N)	SB-623 (N)-7	9/12/2002	7									
SB-624(N)	SB-624 (N)-2	9/12/2002	2									
SB-624(N)	SB-624 (N)-7	9/12/2002	7	3.3 U	3.3 U	3.3 U	10 U	3.3 U	3.3 U	20 U	3.3 U	3.3 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-2	9/12/2002	2									
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.01 U	0.01 U	0.01 U					0.0181	0.01 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-7	9/12/2002	7									
SB-625(N)	SB-625 (N)-10	9/12/2002	10									
SB-626(N)	SB-626 (N)-7	9/12/2002	7	0.01 U	0.01 U	0.01 U					0.01 U	0.01 U
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-626(N)	SB-626 (N)-7	9/12/2002	7									
SB-627(N)	SB-627(N)-2	8/28/2003	2	0.0759	0.119	0.0433 J					0.0629 J	0.0227 J
SB-627(N)	SB-627(N)-2	8/28/2003	2									
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	0.67 U	0.67 U	0.67 U					0.67 U	0.67 U
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5									
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	0.134 U	0.134 U	0.134 U					0.134 U	0.134 U
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5									
SB-700(P)	SB-700(P)-3	8/21/2002	3									
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5									
SB-701(P)	SB-701(P)-2	8/20/2002	2									
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-701(P)	SB-701(P)-11	8/20/2002	11									
SB-701(P)	SB-701(P)-12	8/20/2002	12									
SB-702(P)	SB-702(P)-2	8/21/2002	2									
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-702(P)	SB-702(P)-11	8/21/2002	11									
SB-703(P)	SB-703(P)-2	8/21/2002	2									
SB-703(P)	SB-703(P)-10	8/21/2002	10									
SB-704(P)	SB-704(P)-2	8/21/2002	2									
SB-704(P)	SB-704(P)-11	8/21/2002	11									
SB-705(P)	SB-705(P)-3	8/20/2002	3									
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5									
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-705(P)	SB-705(P)-12	8/20/2002	12									
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5									
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	0.0134 U	0.0134 U	0.0134 U					0.00531 J	0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10									
SB-708(P)	SB-708(P)-10	8/20/2002	10	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-709(P)	SB-709(P)-3	8/21/2002	3									
SB-709(P)	SB-709(P)-10	8/21/2002	10									
SB-709(P)	SB-709(P)-10	8/21/2002	10									
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.0536 U	0.021 J	0.0268 U					0.0368	0.0268 U
SB-710(P)	SB-710(P)-3	8/21/2002	3									
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5									
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5									
SB-711(P)	SB-711(P)-3	8/21/2002	3									
SB-711(P)	SB-711(P)-10	8/21/2002	10									

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-712(P)	SB-712(P)-2	8/21/2002	2									
SB-712(P)	SB-712(P)-2	8/21/2002	2									
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.324	0.124 J	0.268					0.698	0.0475 J
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5	0.0289	0.0203	0.0169					0.0639	0.00513 J
SB-714(P)	SB-714(P)-10	8/21/2002	10									
SB-716(P)	SB-716(P)-3	8/20/2002	3									
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-716(P)	SB-716(P)-10	8/20/2002	10									
SB-717(P)	SB-717(P)-3	8/20/2002	3									
SB-717(P)	SB-717(P)-10	8/20/2002	10									
SB-719(P)	SB-719(P)-12	8/23/2002	12	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-720(P)	SB-720(P)-2	8/23/2002	2	0.233	0.16	0.187					0.285	0.052
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7									
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.0272 J	0.0371 J	0.067 U					0.0238 J	0.067 U
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-									
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-834(Q)	SB-834(Q)-2	9/5/2003	2									
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5									
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	0.0205	0.0232	0.0162					0.0244	0.00498 J
SB-835(Q)	SB-835(Q)-2	9/5/2003	2									
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-835(Q)	SB-835(Q)-7	9/5/2003	7									
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.0134 U	0.0105 J	0.00397 J					0.0155	0.0134 U
SB-900(S)	SB-900(S)-4	8/26/2002	4									
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-900(S)	SB-900(S)-12	8/26/2002	12									
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.0134 U	0.0134 U	0.0134 U					0.067 U	0.0134 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12									
SB-903(S)	SB-903 (S)-10	8/26/2002	10	0.00753 J	0.0134 U	0.00481 J					0.335 U	0.0134 U
SB-903(S)	SB-903 (S)-10	8/26/2002	10									
SB-904(S)	SB-904 (S)-12	8/26/2002	12	0.067 U	0.0134 U	0.067 U					0.335 U	0.0134 U
SB-904(S)	SB-904 (S)-12	8/26/2002	12									
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.0134 U	0.00857 J	0.0134 U					0.067 U	0.0134 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12									
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.0134 U	0.0108 J	0.0134 U					0.00707 J	0.0134 U
SB-906(S)	SB-906 (S)-4	8/27/2002	4									
SB-906(S)	SB-906 (S)-12	8/27/2002	12	0.067 U	0.00582 J	0.067 U					0.066	0.0134 U
SB-906(S)	SB-906 (S)-12	8/27/2002	12									
SB-908(S)	SB-908 (S)-4	8/27/2002	4	0.0868 J	0.122 J	0.148 J					0.585	0.268 U
SB-908(S)	SB-908 (S)-4	8/27/2002	4									
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.268 U	0.268 U	0.268 U					0.302 J	0.268 U
SB-908(S)	SB-908 (S)-8	8/27/2002	8									
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10									
SB-909(S)	SB-909 (S)-4	8/27/2002	4	0.134 U	0.08 J	0.134 U					0.0389 J	0.134 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.0134 U	0.00519 J	0.0134 U					0.0134 U	0.0134 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4									
SB-912(S)	SB-912(S)-2	9/3/2003	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-912(S)	SB-912(S)-2	9/3/2003	2									
SB-912(S)	SB-912(S)-7	9/3/2003	7	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-912(S)	SB-912(S)-7	9/3/2003	7									
SB-913(S)	SB-913(S)-2	9/3/2003	2	0.67 U	0.67 U	0.67 U					0.67 U	0.67 U
SB-913(S)	SB-913(S)-2	9/3/2003	2									
SB-913(S)	SB-913(S)-7	9/3/2003	7	0.335 U	0.335 U	0.335 U					0.335 U	0.335 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl) ether	bis-(2-ethylhexyl) phthalate	Chrysene	Dibenzo(a,h) anthracene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-913(S)	SB-913(S)-7	9/3/2003	7									
SB-914(S)	SB-914(S)-2	9/3/2003	2	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-914(S)	SB-914(S)-2	9/3/2003	2									
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5									
SB-915(S)	SB-915(s)-5.0	3/31/2004	5	0.067 U	0.067 U	0.067 U					0.067 U	0.067 U
TP-201(C)	TP201(C)6E	8/27/2002	-	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
TP-201(C)	TP201(C)6E	8/27/2002	-									
TP-202(C)	TP202(C)6W	8/27/2002	-	0.0134 U	0.0134 U	0.0134 U					0.0134 U	0.0134 U
TP-202(C)	TP202(C)6W	8/27/2002	-									

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-						0.0134 U	0.0134 U			
EX-2(S)	Ex-2/S-1	3/30/2004	-						0.00865 J	0.0134 U			
EX-3(S)	Ex-3/S-1	3/31/2004	-						0.152	0.067 U			
EX-4(S)	Ex-4/S-1	3/29/2004	-						0.0134 U	0.0134 U			
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5						0.0134 U	0.0134 U			
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5										
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5						0.0134 U	0.0134 U			
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5										
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5						0.0134 U	0.0134 U			
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5										
SB-003(A)	SB-003(A)-5	9/4/2003	5						0.0244 J	0.0268 U			
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5						0.0134 U	0.0134 U			
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5										
SB-005(A)	SB-005(A)-7	9/5/2003	7						0.00753 J	0.0134 U			
SB-005(A)	SB-005(A)-7	9/5/2003	7										
SB-006(A)	SB-006(A)-7'	3/31/2004	7						0.273 J	6.7			
SB-006(A)	SB-006(A)-7'	3/31/2004	7										
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5						0.128 J	3.22			
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5										
SB-008(A)	SB-008(A)-2	8/26/2003	2						3.92	0.268 U			
SB-008(A)	SB-008(A)-2	8/26/2003	2										
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5						0.0134 U	0.0134 U			
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5										
SB-009(A)	SB-009(A)-2	8/27/2003	2						0.0134 U	0.0134 U			
SB-009(A)	SB-009(A)-2	8/27/2003	2										
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5						2.68 U	7.8			
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5										
SB-010(A)	SB-010(A)-2	8/27/2003	2						0.0134 U	0.0134 U			
SB-010(A)	SB-010(A)-2	8/27/2003	2										
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5						0.0134 U	0.0134 U			
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5										
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5						0.0134 U	0.0134 U			
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5										
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5						0.0134 U	0.0134 U			
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5										
SB-015(A)	SB-015(A)-7	9/10/2003	7						0.134 U	0.134 U			
SB-015(A)	SB-015(A)-7	9/10/2003	7										
SB-016(A)	SB-016(A)-7	9/4/2003	7						0.067 U	0.151			
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5						0.0134 U	0.0134 U			
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5										
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5						0.0134 U	0.0134 U			
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5										
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5						0.67 U	0.823			
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5										
SB-020(A)	SB-020(A)-4'	3/31/2004	4						0.0134 U	0.0134 U			
SB-020(A)	SB-020(A)-4'	3/31/2004	4										
SB-020(A)	SB-020(A)-9'	3/31/2004	9						0.0201 U	0.0134 U			
SB-020(A)	SB-020(A)-9'	3/31/2004	9										
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5						1.69 U	23.4			
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5										
SB-027(A)	SB-027 (A)-11	9/14/2005	11						2.33 U	25.4			
SB-027(A)	SB-027 (A)-11	9/14/2005	11										
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5						0.0169 U J	0.0169 U J			
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5										
SB-100(C)	SB100(C)3	8/22/2002	3						0.0134 U	0.0134 U			
SB-100(C)	SB100(C)3	8/22/2002	3										
SB-100(C)	SB100(C)20	8/22/2002	20						0.0134 U	0.0134 U			

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-100(C)	SB100(C)20	8/22/2002	20										
SB-101(C)	SB101(C)3	8/22/2002	3										
SB-101(C)	SB101(C)18	8/22/2002	18										
SB-102(C)	SB102(C)1-3	8/22/2002	2										
SB-102(C)	SB102(C)18	8/22/2002	18										
SB-103(C)	SB103(C)3	8/22/2002	3										
SB-103(C)	SB103(C)18	8/22/2002	18										
SB-104(C)	SB104(C)4	8/22/2002	4										
SB-104(C)	SB104(C)20	8/22/2002	20										
SB-200(C)	SB200(C)3	8/22/2002	3						0.0134 U	0.0134 U			
SB-200(C)	SB200(C)3	8/22/2002	3										
SB-200(C)	SB200(C)6	8/22/2002	6						0.0134 U	0.0134 U			
SB-200(C)	SB200(C)6	8/22/2002	6										
SB-201(C)	SB201(C)3	8/22/2002	3						0.0134 U	0.0134 U			
SB-201(C)	SB201(C)3	8/22/2002	3										
SB-201(C)	SB201(C)6	8/22/2002	6						0.0112 J	0.0268 U			
SB-201(C)	SB201(C)6	8/22/2002	6										
SB-202(C)	SB202(C)2	8/22/2002	2						1.68 U	1.68 U			
SB-202(C)	SB202(C)2	8/22/2002	2										
SB-202(C)	SB202(C)3	8/22/2002	3						0.0134 U	0.0134 U			
SB-202(C)	SB202(C)3	8/22/2002	3										
SB-202(C)	SB202(C)7	8/22/2002	7						0.0134 U	0.0134 U			
SB-202(C)	SB202(C)7	8/22/2002	7										
SB-203(C)	SB203(C)3	8/22/2002	3						0.0134 U	0.0134 U			
SB-203(C)	SB203(C)3	8/22/2002	3										
SB-203(C)	SB203(C)7	8/22/2002	7						0.0134 U	0.0134 U			
SB-203(C)	SB203(C)7	8/22/2002	7										
SB-204(C)	SB204(C)3	8/22/2002	3						0.0134 U	0.0134 U			
SB-204(C)	SB204(C)3	8/22/2002	3										
SB-204(C)	SB204(C)8	8/22/2002	8						0.0134 U	0.0134 U			
SB-204(C)	SB204(C)8	8/22/2002	8										
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5						0.0134 U	0.0134 U			
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5										
SB-206(C)	SB206(C)-6	8/27/2002	6						0.0134 U	0.0134 U			
SB-206(C)	SB206(C)-6	8/27/2002	6										
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5						0.0134 U	0.0134 U			
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5										
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5						0.0134 U	0.0134 U			
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5										
SB-209(C)	SB209(C)-3	8/27/2002	3						0.0134 U	0.0134 U			
SB-209(C)	SB209(C)-3	8/27/2002	3										
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5						0.0134 U	0.0134 U			
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5										
SB-211(C)	SB211(C)-3	8/27/2002	3						0.0134 U	0.0134 U			
SB-211(C)	SB211(C)-3	8/27/2002	3										
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5						0.0134 U	0.0134 U			
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5										
SB-213(C)	SB213(C)-4	8/27/2002	4						0.0134 U	0.0134 U			
SB-213(C)	SB213(C)-4	8/27/2002	4										
SB-214(C)	SB214(C)-5	8/27/2002	5						0.0134 U	0.0134 U			
SB-214(C)	SB214(C)-5	8/27/2002	5										
SB-215(C)	SB215(C)-5	8/27/2002	5						0.0134 U	0.0134 U			
SB-215(C)	SB215(C)-5	8/27/2002	5										
SB-216(C)	SB216(C)-3	8/27/2002	3						0.00404 J	0.0127 J			
SB-216(C)	SB216(C)-3	8/27/2002	3										
SB-217(C)	SB217(C)-3	8/28/2002	3						0.0134 U	0.0134 U			
SB-217(C)	SB217(C)-3	8/28/2002	3										
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5						0.0134 U	0.0134 U			

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5										
SB-219(C)	SB219(C)-4	8/28/2002	4						0.0134 U	0.0134 U			
SB-219(C)	SB219(C)-4	8/28/2002	4										
SB-220(C)	SB220 (C)-5	8/28/2002	5						0.0134 U	0.0134 U			
SB-220(C)	SB220 (C)-5	8/28/2002	5										
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5						0.0134 U	0.0134 U			
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5										
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5						0.0134 U	0.0134 U			
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5										
SB-223(C)	SB223 (C)-6	8/29/2002	6						0.0268 U	0.0268 U			
SB-223(C)	SB223 (C)-6	8/29/2002	6										
SB-224(C)	SB224 (C)-2	8/29/2002	2						0.0134 U	0.0134 U			
SB-224(C)	SB224 (C)-2	8/29/2002	2										
SB-225(C)	SB225 (C)-3	8/29/2002	3						0.0134 U	0.0134 U			
SB-225(C)	SB225 (C)-3	8/29/2002	3										
SB-226(C)	SB226 (C)-3	8/29/2002	3						0.0134 U	0.0134 U			
SB-226(C)	SB226 (C)-3	8/29/2002	3										
SB-227(C)	SB227 (C)-8	8/29/2002	8						0.0134 U	0.0134 U			
SB-227(C)	SB227 (C)-8	8/29/2002	8										
SB-228(C)	SB228 (C)-4	8/29/2002	4						0.014 J	0.0268 U			
SB-228(C)	SB228 (C)-4	8/29/2002	4										
SB-229(C)	SB229 (C)-8	8/29/2002	8						0.0134 U	0.0134 U			
SB-229(C)	SB229 (C)-8	8/29/2002	8										
SB-230(C)	SB230 (C)-8	8/29/2002	8						0.0134 U	0.0134 U			
SB-230(C)	SB230 (C)-8	8/29/2002	8										
SB-231(C)	SB231 (C)-2	8/29/2002	2						0.0134 U	0.0134 U			
SB-231(C)	SB231 (C)-2	8/29/2002	2										
SB-232(C)	SB 232 (C)-8	8/30/2002	8						0.0268 U	0.0268 U			
SB-232(C)	SB 232 (C)-8	8/30/2002	8										
SB-233(C)	SB 233 (C)-3	8/30/2002	3						0.0134 U	0.0134 U			
SB-233(C)	SB 233 (C)-3	8/30/2002	3										
SB-234(C)	SB 234 (C)-8	8/30/2002	8						0.0134 U	0.0134 U			
SB-234(C)	SB 234 (C)-8	8/30/2002	8										
SB-235(C)	SB 235 (C)-6	8/30/2002	6						0.0134 U	0.0134 U			
SB-235(C)	SB 235 (C)-6	8/30/2002	6										
SB-236(C)	SB 236 (C)-6	8/30/2002	6						0.0268 U	0.0268 U			
SB-236(C)	SB 236 (C)-6	8/30/2002	6										
SB-237(C)	SB 237 (C)-6	8/30/2002	6						0.0134 U	0.0394			
SB-237(C)	SB 237 (C)-6	8/30/2002	6										
SB-238(C)	SB 238 (C)-3	8/30/2002	3						0.0268 U	0.0268 U			
SB-238(C)	SB 238 (C)-3	8/30/2002	3										
SB-239(C)	SB-239(C)-4	9/3/2002	4						0.0134 U	0.0134 U			
SB-239(C)	SB-239(C)-4	9/3/2002	4										
SB-240(C)	SB-240(C)-6	9/3/2002	6						0.0268 U	0.0268 U			
SB-240(C)	SB-240(C)-6	9/3/2002	6										
SB-241(C)	SB-241(C)-5	9/3/2002	5						0.0134 U	0.0134 U			
SB-241(C)	SB-241(C)-5	9/3/2002	5										
SB-242(C)	SB-242(C)-4	9/3/2002	4						0.0134 U	0.0134 U			
SB-242(C)	SB-242(C)-4	9/3/2002	4										
SB-243(C)	SB-243(C)-4	9/3/2002	4						0.0134 U	0.0134 U			
SB-243(C)	SB-243(C)-4	9/3/2002	4										
SB-244(C)	SB-244(C)-3	9/3/2002	3						0.0134 U	0.0134 U			
SB-244(C)	SB-244(C)-3	9/3/2002	3										
SB-245(C)	SB-245(C)-5	9/3/2002	5						0.0134 U	0.0134 U			
SB-245(C)	SB-245(C)-5	9/3/2002	5										
SB-246(C)	SB-246(C)-5	9/3/2002	5						0.0268 U	0.0268 U			
SB-246(C)	SB-246(C)-5	9/3/2002	5										
SB-247(C)	SB-247(C)-6	9/3/2002	6						0.0134 U	0.0134 U			
SB-247(C)	SB-247(C)-6	9/3/2002	6										

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Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-250(C)	SB-250(C)-4	9/9/2002	4						0.0134 U	0.0134 U			
SB-250(C)	SB-250(C)-4	9/9/2002	4										
SB-251(C)	SB-251(C)-4	9/9/2002	4						0.0134 U	0.0134 U			
SB-251(C)	SB-251(C)-4	9/9/2002	4										
SB-252(C)	SB-252(C)-5	9/9/2002	5						0.0134 U	0.0134 U			
SB-252(C)	SB-252(C)-5	9/9/2002	5										
SB-253(C)	SB-253(C)-2	9/4/2003	2						0.0134 U	0.0134 U			
SB-253(C)	SB-253(C)-2	9/4/2003	2										
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5						0.0134 U	0.0134 U			
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5										
SB-254(C)	SB-254(C)-2	9/4/2003	2						0.215	0.0267 J			
SB-254(C)	SB-254(C)-2	9/4/2003	2										
SB-254(C)	SB-254(C)-7	9/4/2003	7						0.0134 U	0.0134 U			
SB-254(C)	SB-254(C)-7	9/4/2003	7										
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5						0.843	0.52			
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5										
SB-255(C)	SB-255(C)-7	9/4/2003	7						24.5	8.15			
SB-255(C)	SB-255(C)-7	9/4/2003	7										
SB-256(C)	SB256 (c) 6	3/31/2004	6						0.0134 U	0.0134 U			
SB-256(C)	SB256 (c) 6	3/31/2004	6										
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5						0.0277 J	0.734			
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5										
SB-304(D)	SB-304-D-2.0	8/19/2002	2						0.134 U	0.395			
SB-304(D)	SB-304-D-2.0	8/19/2002	2										
SB-304(D)	SB-D-DUP-0819	8/19/2002	2						0.067 U	0.067 U			
SB-304(D)	SB-D-DUP-0819	8/19/2002	2										
SB-304(D)	SB-304-D-5.0	8/19/2002	5						0.067 U	0.124			
SB-304(D)	SB-304-D-5.0	8/19/2002	5										
SB-305(D)	SB-305-D-2.0	8/19/2002	2						0.00652 J	0.136			
SB-305(D)	SB-305-D-2.0	8/19/2002	2										
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5						0.0134 U	0.0191			
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5										
SB-306(D)	SB-306-D-2.0	8/19/2002	2						0.0434 J	1.03			
SB-306(D)	SB-306-D-2.0	8/19/2002	2										
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5						0.0872 J	1.52			
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5										
SB-307(D)	SB-307-D-2.0	8/19/2002	2						0.0134 U	0.0134 U			
SB-307(D)	SB-307-D-2.0	8/19/2002	2										
SB-307(D)	SB-307-D-2.0	8/19/2002	2										
SB-309(D)	SB-309-D-2.0	8/19/2002	2						0.0353 J	0.552			
SB-309(D)	SB-309-D-2.0	8/19/2002	2										
SB-309(D)	SB-309-D-5.0	8/19/2002	5						0.0134 U	0.00644 J			
SB-309(D)	SB-309-D-5.0	8/19/2002	5										
SB-309(D)	SB-309-D-5.0	8/19/2002	5										
SB-310(D)	SB-310-D-2.0	8/19/2002	2						0.00439 J	0.0254			
SB-310(D)	SB-310-D-2.0	8/19/2002	2										
SB-310(D)	SB-310-D-5.0	8/19/2002	5						0.0401 J	0.666			
SB-310(D)	SB-310-D-5.0	8/19/2002	5										
SB-311(D)	SB-311-D-5.0	8/19/2002	5						0.507	0.0268 U			
SB-311(D)	SB-311-D-5.0	8/19/2002	5										
SB-311(D)	SB-311-D-5.0	8/19/2002	5										
SB-312(D)	SB-312-D-5.0	8/19/2002	5						0.0134 U	0.0134 U			
SB-312(D)	SB-312-D-5.0	8/19/2002	5										
SB-312(D)	SB-312-D-5.0	8/19/2002	5										
SB-313(D)	SB-313-D-5.0	8/20/2002	5										
SB-313(D)	SB-313-D-18.0	8/20/2002	18										
SB-314(D)	SB-314-D-2.0	8/20/2002	2						0.0134 U	0.0134 U			
SB-314(D)	SB-314-D-10.0	8/20/2002	10						0.134 U	1.66			

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Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15						0.0134 U	0.0134 U			
SB-314(D)	SB-314-D-15.0	8/20/2002	15										
SB-314(D)	SB-314-D-15.0	8/20/2002	15										
SB-315(D)	SB-315-D-2.0	8/20/2002	2						0.0134 U	0.0134 U			
SB-315(D)	SB-315-D-2.0	8/20/2002	2										
SB-315(D)	SB-315-D-2.0	8/20/2002	2										
SB-315(D)	SB-315-D-5.0	8/20/2002	5						0.0134 U	0.0134 U			
SB-315(D)	SB-315-D-15.0	8/20/2002	15										
SB-315(D)	SB-315-D-15.0	8/20/2002	15										
SB-316(D)	SB-316-D-2.0	8/20/2002	2						0.00948 J	0.0134 U			
SB-316(D)	SB-316-D-2.0	8/20/2002	2										
SB-316(D)	SB-316-D-2.0	8/20/2002	2										
SB-316(D)	SB-316-D-5.0	8/20/2002	5										
SB-316(D)	SB-D-DUP-3	8/20/2002	5						0.0104 J	0.0268 U			
SB-316(D)	SB-D-DUP-3	8/20/2002	5										
SB-316(D)	SB-316-D-10.0	8/20/2002	10						0.067 U	0.067 U			
SB-316(D)	SB-316-D-10.0	8/20/2002	10										
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5						0.0134 U	0.0134 U			
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5										
SB-318(D)	SB-318-D-10.0	8/20/2002	10										
SB-318(D)	SB-318-D-15.0	8/20/2002	15										
SB-320(D)	SB-320(D)-2	9/10/2003	2										
SB-320(D)	SB-320(D)-5	9/10/2003	5										
SB-321(D)	SB-321(D)-2	9/9/2003	2										
SB-321(D)	SB-321(D)-5	9/9/2003	5										
SB-322(D)	SB-322(D)-2	9/10/2003	2										
SB-322(D)	SB-322(D)-5	9/10/2003	5										
SB-323(D)	SB-323(D)-7	9/10/2003	7						0.0134 U	0.0134 U			
SB-323(D)	SB-323(D)-7	9/10/2003	7										
SB-324(D)	SB-324(D)-2	9/10/2003	2										
SB-324(D)	SB-324(D)-5	9/10/2003	5										
SB-324(D)	SB-324(D)-10	9/10/2003	10										
SB-324(D)	SB-324(D)-15	9/10/2003	15										
SB-324(D)	SB-324(D)-DUP	9/10/2003	15										
SB-325(D)	SB-325(D)-2	9/10/2003	2										
SB-325(D)	SB-325(D)-DUP	9/10/2003	2										
SB-325(D)	SB-325(D)-5	9/10/2003	5										
SB-325(D)	SB-325(D)-10	9/10/2003	10										
SB-325(D)	SB-325(D)-15	9/10/2003	15										
SB-326(D)	SB-326(D)-2	9/9/2003	2										
SB-326(D)	SB-326(D)-5	9/9/2003	5										
SB-326(D)	SB-326(D)-10	9/9/2003	10										
SB-327(D)	SB-327(D)-2	9/10/2003	2										
SB-327(D)	SB-327(D)-5	9/10/2003	5										
SB-327(D)	SB-327(D)-10	9/10/2003	10										
SB-327(D)	SB-327(D)-15	9/10/2003	15										
SB-328(D)	SB-328(D)-2	9/10/2003	2										
SB-328(D)	SB-328(D)-5	9/10/2003	5										
SB-328(D)	SB-328(D)-10	9/10/2003	10										
SB-328(D)	SB-328(D)-15	9/10/2003	15										
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5										
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5										
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5						0.0205	0.0134 U			
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7										
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5						0.0186 J	0.0263 J			
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5										
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5						0.0678 J	0.134 U			
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5										

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Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5										
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5						0.0134 U	0.0134 U			
SB-410(F)	SB-410(F)-2'	3/31/2004	2										
SB-410(F)	SB-410(F)-4'	3/31/2004	4						0.0134 U	0.0134 U			
SB-410(F)	SB-410(F)-4'	3/31/2004	4										
SB-410(F)	SB-410(F)-9'	3/31/2004	9										
SB-600(N)	SB-600(N)-7	9/13/2002	7										
SB-601(N)	SB-601(N)-3	9/13/2002	3						0.0134 U	0.0134 U			
SB-601(N)	SB-601(N)-3	9/13/2002	3										
SB-601(N)	SB-601(N)-7	9/13/2002	7						0.067 U	0.067 U			
SB-601(N)	SB-601(N)-7	9/13/2002	7										
SB-602(N)	SB-602(N)-3	9/13/2002	3										
SB-602(N)	SB-602(N)-7	9/13/2002	7						0.1 U	1 U			
SB-602(N)	SB-602(N)-7	9/13/2002	7						1 U	0.841			
SB-602(N)	SB-602(N)-7	9/13/2002	7										
SB-602(N)	SB-602(N)-7	9/13/2002	7										
SB-603(N)	SB-603(N)-7	9/13/2002	7						0.067 U	0.67 U			
SB-603(N)	SB-603(N)-7	9/13/2002	7										
SB-603(N)	SB-603(N)-7	9/13/2002	7										
SB-604(N)	SB-604(N)-3	9/13/2002	3										
SB-604(N)	SB-604(N)-7	9/13/2002	7						0.134 U	0.319			
SB-604(N)	SB-604(N)-7	9/13/2002	7										
SB-605(N)	SB-605(N)-3	9/13/2002	3						0.0134 U	0.0403			
SB-605(N)	SB-605(N)-3	9/13/2002	3										
SB-605(N)	SB-605(N)-7	9/13/2002	7						0.134 U	1.34 U			
SB-605(N)	SB-605(N)-7	9/13/2002	7										
SB-606(N)	SB-606(N)-3	9/13/2002	3										
SB-606(N)	SB-606(N)-7	9/13/2002	7										
SB-607(N)	SB-607(N)-11	9/13/2002	11										
SB-608(N)	SB-608(N)-3	9/13/2002	3						0.0134 U	0.0134 U			
SB-608(N)	SB-608(N)-3	9/13/2002	3										
SB-608(N)	SB-608(N)-6	9/13/2002	6										
SB-609(N)	SB-609(N)-3	9/13/2002	3										
SB-609(N)	SB-609(N)-7	9/13/2002	7										
SB-612(N)	SB-612 (N)-7	9/12/2002	7						0.1 U	0.722			
SB-612(N)	SB-612 (N)-7	9/12/2002	7										
SB-612(N)	SB-612 (N)-7	9/12/2002	7										
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5										
SB-614(N)	SB-614 (N)-7	9/12/2002	7										
SB-615(N)	SB-615 (N)-7	9/12/2002	7										
SB-616(N)	SB-616 (N)-7	9/12/2002	7										
SB-617(N)	SB-617 (N)-3	9/12/2002	3						0.01 U	0.01 U			
SB-617(N)	SB-617 (N)-3	9/12/2002	3										
SB-617(N)	SB-617 (N)-3	9/12/2002	3										
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5										
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5										
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1.65 U	1.65 U	1.65 U	5 U	1.65 U	1.65 U	2.55	1.65 U	5 U	5 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7										
SB-618(N)	SB-618 (N)-7	9/12/2002	7										
SB-619(N)	SB-619 (N)-7	9/12/2002	7						0.01 U	0.01 U			
SB-619(N)	SB-619 (N)-7	9/12/2002	7										
SB-619(N)	SB-619 (N)-7	9/12/2002	7										
SB-619(N)	SB-619 (N)-11	9/12/2002	11						0.0527	1.81			
SB-619(N)	SB-619 (N)-11	9/12/2002	11							0.443			
SB-619(N)	SB-619 (N)-11	9/12/2002	11										
SB-619(N)	SB-619 (N)-11	9/12/2002	11										
SB-620(N)	SB-620 (N)-3	9/12/2002	3										
SB-620(N)	SB-620 (N)-7	9/12/2002	7						0.126	1.3			

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Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-620(N)	SB-620 (N)-7	9/12/2002	7										
SB-620(N)	SB-620 (N)-7	9/12/2002	7										
SB-620(N)	SB-620 (N)-7	9/12/2002	7										
SB-621(N)	SB-621 (N)-7	9/12/2002	7										
SB-622(N)	SB-622 (N)-2	9/12/2002	2										
SB-622(N)	SB-622 (N)-7	9/12/2002	7										
SB-622(N)	SB-622 (N)-7	9/12/2002	7										
SB-623(N)	SB-623 (N)-7	9/12/2002	7										
SB-623(N)	SB-623 (N)-7	9/12/2002	7										
SB-624(N)	SB-624 (N)-2	9/12/2002	2										
SB-624(N)	SB-624 (N)-7	9/12/2002	7	3.3 U	3.3 U	3.3 U	10 U	3.3 U	3.3 U	5.58	3.3 U	10 U	10 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7										
SB-625(N)	SB-625 (N)-2	9/12/2002	2										
SB-625(N)	SB-625 (N)-7	9/12/2002	7						0.0145	0.0268			
SB-625(N)	SB-625 (N)-7	9/12/2002	7										
SB-625(N)	SB-625 (N)-7	9/12/2002	7										
SB-625(N)	SB-625 (N)-10	9/12/2002	10										
SB-626(N)	SB-626 (N)-7	9/12/2002	7						0.01 U	0.01 U			
SB-626(N)	SB-626 (N)-7	9/12/2002	7										
SB-626(N)	SB-626 (N)-7	9/12/2002	7										
SB-627(N)	SB-627(N)-2	8/28/2003	2						0.0526 J	0.067 U			
SB-627(N)	SB-627(N)-2	8/28/2003	2										
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5						0.67 U	7.06			
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5										
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5						0.134 U	0.0589 J			
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5										
SB-700(P)	SB-700(P)-3	8/21/2002	3										
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5						0.0134 U	0.0168			
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5										
SB-701(P)	SB-701(P)-2	8/20/2002	2										
SB-701(P)	SB-701(P)-11	8/20/2002	11						0.0134 U	0.0134 U			
SB-701(P)	SB-701(P)-11	8/20/2002	11										
SB-701(P)	SB-701(P)-12	8/20/2002	12										
SB-702(P)	SB-702(P)-2	8/21/2002	2										
SB-702(P)	SB-702(P)-11	8/21/2002	11						0.0134 U	0.0134 U			
SB-702(P)	SB-702(P)-11	8/21/2002	11										
SB-703(P)	SB-703(P)-2	8/21/2002	2										
SB-703(P)	SB-703(P)-10	8/21/2002	10										
SB-704(P)	SB-704(P)-2	8/21/2002	2										
SB-704(P)	SB-704(P)-11	8/21/2002	11										
SB-705(P)	SB-705(P)-3	8/20/2002	3										
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5										
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5						0.0134 U	0.0134 U			
SB-705(P)	SB-705(P)-12	8/20/2002	12										
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5										
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5						0.0134 U	0.0134 U			
SB-707(P)	SB-707(P)-10	8/21/2002	10						0.0134 U	0.0134 U			
SB-707(P)	SB-707(P)-10	8/21/2002	10										
SB-708(P)	SB-708(P)-10	8/20/2002	10						0.0134 U	0.0134 U			
SB-709(P)	SB-709(P)-3	8/21/2002	3										
SB-709(P)	SB-709(P)-10	8/21/2002	10										
SB-709(P)	SB-709(P)-10	8/21/2002	10										
SB-710(P)	SB-710(P)-3	8/21/2002	3						0.0106 J	0.0268 U			
SB-710(P)	SB-710(P)-3	8/21/2002	3										
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5										
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5										
SB-711(P)	SB-711(P)-3	8/21/2002	3										
SB-711(P)	SB-711(P)-10	8/21/2002	10										

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-712(P)	SB-712(P)-2	8/21/2002	2										
SB-712(P)	SB-712(P)-2	8/21/2002	2										
SB-712(P)	SB-712(P)-10	8/21/2002	10						1.02	0.318			
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5						0.0869 J	1.78			
SB-714(P)	SB-714(P)-10	8/21/2002	10										
SB-716(P)	SB-716(P)-3	8/20/2002	3										
SB-716(P)	SB-716(P)-10	8/20/2002	10						0.0134 U	0.0134 U			
SB-716(P)	SB-716(P)-10	8/20/2002	10										
SB-717(P)	SB-717(P)-3	8/20/2002	3										
SB-717(P)	SB-717(P)-10	8/20/2002	10										
SB-719(P)	SB-719(P)-12	8/23/2002	12						0.0134 U	0.0134 U			
SB-720(P)	SB-720(P)-2	8/23/2002	2						0.331	0.0134 U			
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5						0.0401 J	1.24			
SB-721(P)	SB-721(P)-7'	3/31/2004	7						0.0134 U	0.0134 U			
SB-721(P)	SB-721(P)-7'	3/31/2004	7										
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-						0.0286 J	0.067 U			
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-										
SB-834(Q)	SB-834(Q)-2	9/5/2003	2						0.0134 U	0.0134 U			
SB-834(Q)	SB-834(Q)-2	9/5/2003	2										
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5						0.0134 U	0.0134 U			
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5										
SB-835(Q)	SB-835(Q)-2	9/5/2003	2						0.0229	0.0134 U			
SB-835(Q)	SB-835(Q)-2	9/5/2003	2										
SB-835(Q)	SB-835(Q)-7	9/5/2003	7						0.0134 U	0.0134 U			
SB-835(Q)	SB-835(Q)-7	9/5/2003	7										
SB-900(S)	SB-900(S)-4	8/26/2002	4						0.0204	0.0134 U			
SB-900(S)	SB-900(S)-4	8/26/2002	4										
SB-900(S)	SB-900(S)-12	8/26/2002	12						0.0134 U	0.0134 U			
SB-900(S)	SB-900(S)-12	8/26/2002	12										
SB-902(S)	SB-902 (S)-12	8/26/2002	12						0.0134 U	0.198			
SB-902(S)	SB-902 (S)-12	8/26/2002	12										
SB-903(S)	SB-903 (S)-10	8/26/2002	10						0.103 J	2.03			
SB-903(S)	SB-903 (S)-10	8/26/2002	10										
SB-904(S)	SB-904 (S)-12	8/26/2002	12						0.335 U	2.49			
SB-904(S)	SB-904 (S)-12	8/26/2002	12										
SB-905(S)	SB-905 (S)-12	8/26/2002	12						0.067 U	0.067 U			
SB-905(S)	SB-905 (S)-12	8/26/2002	12										
SB-906(S)	SB-906 (S)-4	8/27/2002	4						0.0134 U	0.067 U			
SB-906(S)	SB-906 (S)-4	8/27/2002	4										
SB-906(S)	SB-906 (S)-12	8/27/2002	12						0.335 U	2.05			
SB-906(S)	SB-906 (S)-12	8/27/2002	12										
SB-908(S)	SB-908 (S)-4	8/27/2002	4						0.67 U	1.34 U			
SB-908(S)	SB-908 (S)-4	8/27/2002	4										
SB-908(S)	SB-908 (S)-8	8/27/2002	8						0.67 U	0.67 U			
SB-908(S)	SB-908 (S)-8	8/27/2002	8										
SB-908(S)	SB-908 (S)-10	8/27/2002	10						0.0134 U	0.0134 U			
SB-908(S)	SB-908 (S)-10	8/27/2002	10										
SB-909(S)	SB-909 (S)-4	8/27/2002	4						0.0494 J	0.134 U			
SB-910(S)	SB-910 (S)-4	8/27/2002	4						0.0134 U	0.0134 U			
SB-910(S)	SB-910 (S)-4	8/27/2002	4										
SB-912(S)	SB-912(S)-2	9/3/2003	2						0.0134 U	0.0134 U			
SB-912(S)	SB-912(S)-2	9/3/2003	2										
SB-912(S)	SB-912(S)-7	9/3/2003	7						0.0134 U	0.0134 U			
SB-912(S)	SB-912(S)-7	9/3/2003	7										
SB-913(S)	SB-913(S)-2	9/3/2003	2						0.67 U	0.67 U			
SB-913(S)	SB-913(S)-2	9/3/2003	2										
SB-913(S)	SB-913(S)-7	9/3/2003	7						0.335 U	0.335 U			

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-913(S)	SB-913(S)-7	9/3/2003	7										
SB-914(S)	SB-914(S)-2	9/3/2003	2						0.0134 U	0.0134 U			
SB-914(S)	SB-914(S)-2	9/3/2003	2										
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5						0.0134 U	0.0134 U			
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5										
SB-915(S)	SB-915(s)-5.0	3/31/2004	5						0.067 U	0.067 U			
TP-201(C)	TP201(C)6E	8/27/2002	-						0.0134 U	0.0134 U			
TP-201(C)	TP201(C)6E	8/27/2002	-										
TP-202(C)	TP202(C)6W	8/27/2002	-						0.0134 U	0.0134 U			
TP-202(C)	TP202(C)6W	8/27/2002	-										

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EX-1(S)	Ex-1/S-1	3/30/2004	-	0.0134 U		0.0134 U				0.0134 U		0.00563 J
EX-2(S)	Ex-2/S-1	3/30/2004	-	0.0083 J		0.0352				0.0134 U		0.0162
EX-3(S)	Ex-3/S-1	3/31/2004	-	0.0629 J		0.067 U				0.0862		0.194
EX-4(S)	Ex-4/S-1	3/29/2004	-	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5			0.0134 U						
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5			0.0134 U						
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5	0.0134 U		0.0287 J				0.0134 U		0.0134 U
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5			0.0134 U						
SB-003(A)	SB-003(A)-5	9/4/2003	5	0.0182 J		0.00983 J				0.0175 J		0.031
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5			0.0134 U						
SB-005(A)	SB-005(A)-7	9/5/2003	7	0.00376 J		0.0167 J				0.0134 U		0.00871 J
SB-005(A)	SB-005(A)-7	9/5/2003	7			0.0134 U						
SB-006(A)	SB-006(A)-7'	3/31/2004	7	0.67 U		38				12.5		1.09
SB-006(A)	SB-006(A)-7'	3/31/2004	7			61.2						
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5	0.268 U		53.4				5.25		0.388
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5			44.9						
SB-008(A)	SB-008(A)-2	8/26/2003	2	1.64		0.2 U				1.05		3.58
SB-008(A)	SB-008(A)-2	8/26/2003	2			0.268 U						
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5			0.0134 U						
SB-009(A)	SB-009(A)-2	8/27/2003	2	0.0134 U		0.208				0.0134 U		0.0134 U
SB-009(A)	SB-009(A)-2	8/27/2003	2			0.0134 U						
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5	0.268 U		11.3				16.4		0.969
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5			10.5						
SB-010(A)	SB-010(A)-2	8/27/2003	2	0.0134 U		0.262				0.0134 U		0.0134 U
SB-010(A)	SB-010(A)-2	8/27/2003	2			0.0134 U						
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5	0.0134 U		0.0438 J				0.0134 U		0.0134 U
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5			0.0134 U						
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5			0.0134 U						
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-013(A)	SB-013(A)-7.5	9/3/2003	7.5			0.0134 U						
SB-015(A)	SB-015(A)-7	9/10/2003	7	0.134 U		7.06				0.134 U		0.134 U
SB-015(A)	SB-015(A)-7	9/10/2003	7			15.7						
SB-016(A)	SB-016(A)-7	9/4/2003	7	0.067 U		0.552				0.346		0.067 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-017(A)	SB-017(A)-7.5	9/8/2003	7.5			0.00659 J						
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5			0.0134 U						
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5	0.67 U		85.3				2.33		0.336 J
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5			35.6						
SB-020(A)	SB-020(A)-4'	3/31/2004	4	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-020(A)	SB-020(A)-4'	3/31/2004	4			0.0134 U						
SB-020(A)	SB-020(A)-9'	3/31/2004	9	0.0134 U		0.2 U				0.0343		0.00823 J
SB-020(A)	SB-020(A)-9'	3/31/2004	9			0.00541 J						
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5	1.69 U		45.4 J				54.7		6.03
SB-021(A)	SB-021 (A)-11.5	9/14/2005	11.5			58.4						
SB-027(A)	SB-027 (A)-11	9/14/2005	11	1.55 U		41.9 J				60.1		5.93
SB-027(A)	SB-027 (A)-11	9/14/2005	11			64.9						
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5	0.0169 U J		0.122 U J				0.0169 U J		0.0169 U J
SB-029(A)	SB-029 (A)-12.5	9/14/2005	12.5			0.0169 U J						
SB-100(C)	SB100(C)3	8/22/2002	3	0.0134 U		0.001 U				0.00879 J		0.00391 J
SB-100(C)	SB100(C)3	8/22/2002	3			0.00837 J						
SB-100(C)	SB100(C)20	8/22/2002	20	0.0134 U		0.0179 BJ				0.0134 U		0.0134 U

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-100(C)	SB100(C)20	8/22/2002	20			0.0134 U						
SB-101(C)	SB101(C)3	8/22/2002	3			0.001 U B						
SB-101(C)	SB101(C)18	8/22/2002	18			0.001 U B						
SB-102(C)	SB102(C)1-3	8/22/2002	2			0.001 U B						
SB-102(C)	SB102(C)18	8/22/2002	18			0.001 U B						
SB-103(C)	SB103(C)3	8/22/2002	3			0.001 U B						
SB-103(C)	SB103(C)18	8/22/2002	18			0.001 U B						
SB-104(C)	SB104(C)4	8/22/2002	4			0.001 U B						
SB-104(C)	SB104(C)20	8/22/2002	20			0.001 U						
SB-200(C)	SB200(C)3	8/22/2002	3	0.0134 U		0.001 U B				0.0134 U		0.0134 U
SB-200(C)	SB200(C)3	8/22/2002	3			0.0134 U						
SB-200(C)	SB200(C)6	8/22/2002	6	0.0134 U		0.001 U B				0.0134 U		0.0134 U
SB-200(C)	SB200(C)6	8/22/2002	6			0.0134 U						
SB-201(C)	SB201(C)3	8/22/2002	3	0.0134 U		0.001 U B				0.0134 U		0.0134 U
SB-201(C)	SB201(C)3	8/22/2002	3			0.0134 U						
SB-201(C)	SB201(C)6	8/22/2002	6	0.0268 U		0.001 U				0.0128 J		0.0934
SB-201(C)	SB201(C)6	8/22/2002	6			0.0268 U						
SB-202(C)	SB202(C)2	8/22/2002	2	1.68 U		0.00664 J,B				1.68 U		2.88
SB-202(C)	SB202(C)2	8/22/2002	2			1.68 U						
SB-202(C)	SB202(C)3	8/22/2002	3	0.0134 U		0.001 U B				0.0134 U		0.0134 U
SB-202(C)	SB202(C)3	8/22/2002	3			0.0134 U						
SB-202(C)	SB202(C)7	8/22/2002	7	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-202(C)	SB202(C)7	8/22/2002	7			0.000354 J						
SB-203(C)	SB203(C)3	8/22/2002	3	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-203(C)	SB203(C)3	8/22/2002	3			0.001 U						
SB-203(C)	SB203(C)7	8/22/2002	7	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-203(C)	SB203(C)7	8/22/2002	7			0.0134 U						
SB-204(C)	SB204(C)3	8/22/2002	3	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-204(C)	SB204(C)3	8/22/2002	3			0.0134 U						
SB-204(C)	SB204(C)8	8/22/2002	8	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-204(C)	SB204(C)8	8/22/2002	8			0.0134 U						
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.0134 U		0.001 U B				0.0116 J		0.00787 J
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5			0.0134 U						
SB-206(C)	SB206(C)-6	8/27/2002	6	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-206(C)	SB206(C)-6	8/27/2002	6			0.0134 U						
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5			0.0134 U						
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5			0.0134 U						
SB-209(C)	SB209(C)-3	8/27/2002	3	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-209(C)	SB209(C)-3	8/27/2002	3			0.0134 U						
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5			0.0134 U						
SB-211(C)	SB211(C)-3	8/27/2002	3	0.00711 J		0.001 U				0.0134 U		0.00446 J
SB-211(C)	SB211(C)-3	8/27/2002	3			0.0134 U						
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5			0.0134 U						
SB-213(C)	SB213(C)-4	8/27/2002	4	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-213(C)	SB213(C)-4	8/27/2002	4			0.0134 U						
SB-214(C)	SB214(C)-5	8/27/2002	5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-214(C)	SB214(C)-5	8/27/2002	5			0.0134 U						
SB-215(C)	SB215(C)-5	8/27/2002	5	0.0134 U		0.001 U				0.0134 U		0.00562 J
SB-215(C)	SB215(C)-5	8/27/2002	5			0.0134 U						
SB-216(C)	SB216(C)-3	8/27/2002	3	0.0134 U		0.001 U B				0.0412		0.0351
SB-216(C)	SB216(C)-3	8/27/2002	3			0.0134 U						
SB-217(C)	SB217(C)-3	8/28/2002	3	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-217(C)	SB217(C)-3	8/28/2002	3			0.0134 U						
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.0134 U		0.001 U				0.0134 U		0.0108 J

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5			0.0134 U						
SB-219(C)	SB219(C)-4	8/28/2002	4	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-219(C)	SB219(C)-4	8/28/2002	4			0.001 U						
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-220(C)	SB220 (C)-5	8/28/2002	5			0.0134 U						
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5			0.0134 U						
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5			0.0134 U						
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.0268 U		0.001 U				0.0268 U		0.0268 U
SB-223(C)	SB223 (C)-6	8/29/2002	6			0.0268 U						
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-224(C)	SB224 (C)-2	8/29/2002	2			0.0134 U						
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-225(C)	SB225 (C)-3	8/29/2002	3			0.0134 U						
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-226(C)	SB226 (C)-3	8/29/2002	3			0.0134 U						
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-227(C)	SB227 (C)-8	8/29/2002	8			0.0134 U						
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.00816 J		0.001 U				0.0268 U		0.0233 J
SB-228(C)	SB228 (C)-4	8/29/2002	4			0.0268 U						
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-229(C)	SB229 (C)-8	8/29/2002	8			0.0134 U						
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-230(C)	SB230 (C)-8	8/29/2002	8			0.0134 U						
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-231(C)	SB231 (C)-2	8/29/2002	2			0.0134 U						
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.0268 U		0.001 U				0.0268 U		0.0268 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8			0.0268 U						
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.0134 U		0.001 U B				0.0134 U		0.0134 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3			0.0134 U						
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8			0.0134 U						
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.0134 U		0.001 U B				0.0134 U		0.0134 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6			0.0134 U						
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.0268 U		0.001 U				0.0268 U		0.0107 J
SB-236(C)	SB 236 (C)-6	8/30/2002	6			0.0268 U						
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.0134 U		0.001 U				0.0625		0.0119 J
SB-237(C)	SB 237 (C)-6	8/30/2002	6			0.0134 U						
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.0268 U		0.001 U B				0.0268 U		0.0268 U
SB-238(C)	SB 238 (C)-3	8/30/2002	3			0.0268 U						
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-239(C)	SB-239(C)-4	9/3/2002	4			0.0134 U						
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.0268 U		0.001 U				0.0268 U		0.0268 U
SB-240(C)	SB-240(C)-6	9/3/2002	6			0.0268 U						
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-241(C)	SB-241(C)-5	9/3/2002	5			0.0134 U						
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-242(C)	SB-242(C)-4	9/3/2002	4			0.0134 U						
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-243(C)	SB-243(C)-4	9/3/2002	4			0.0134 U						
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-244(C)	SB-244(C)-3	9/3/2002	3			0.0134 U						
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-245(C)	SB-245(C)-5	9/3/2002	5			0.0134 U						
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.0268 U		0.001 U				0.0268 U		0.0268 U
SB-246(C)	SB-246(C)-5	9/3/2002	5			0.0268 U						
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-247(C)	SB-247(C)-6	9/3/2002	6			0.0134 U						

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.0134 U		0.00126 B				0.0134 U		0.0134 U
SB-250(C)	SB-250(C)-4	9/9/2002	4			0.0134 U						
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.0134 U		0.00129 B				0.0134 U		0.0134 U
SB-251(C)	SB-251(C)-4	9/9/2002	4			0.0134 U						
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.0134 U		0.001 U B				0.0134 U		0.0134 U
SB-252(C)	SB-252(C)-5	9/9/2002	5			0.0134 U						
SB-253(C)	SB-253(C)-2	9/4/2003	2	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-253(C)	SB-253(C)-2	9/4/2003	2			0.0134 U						
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5			0.0134 U						
SB-254(C)	SB-254(C)-2	9/4/2003	2	0.1		0.0255 J				0.172		0.263
SB-254(C)	SB-254(C)-2	9/4/2003	2			0.067 U						
SB-254(C)	SB-254(C)-7	9/4/2003	7	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-254(C)	SB-254(C)-7	9/4/2003	7			0.0134 U						
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5	0.0623 J		0.0621 J				0.996		0.776
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5			0.0147 J						
SB-255(C)	SB-255(C)-7	9/4/2003	7	4.23		4.23				35.8		24.4
SB-255(C)	SB-255(C)-7	9/4/2003	7			10.2						
SB-256(C)	SB256 (c) 6	3/31/2004	6	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-256(C)	SB256 (c) 6	3/31/2004	6			0.0134 U						
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5	0.067 U		1.63				2.38		0.0918
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5			0.578						
SB-304(D)	SB-304-D-2.0	8/19/2002	2	0.134 U		1.08				0.633		0.1 J
SB-304(D)	SB-304-D-2.0	8/19/2002	2			1.06						
SB-304(D)	SB-D-DUP-0819	8/19/2002	2	0.067 U		0.211				0.0507 J		0.0695
SB-304(D)	SB-D-DUP-0819	8/19/2002	2			0.211						
SB-304(D)	SB-304-D-5.0	8/19/2002	5	0.067 U		1.38				0.197		0.0329 J
SB-304(D)	SB-304-D-5.0	8/19/2002	5			0.448						
SB-305(D)	SB-305-D-2.0	8/19/2002	2	0.0134 U		0.56				0.312		0.0245
SB-305(D)	SB-305-D-2.0	8/19/2002	2			0.25						
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5	0.0134 U		0.529				0.0146		0.0134 U
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5			0.154						
SB-306(D)	SB-306-D-2.0	8/19/2002	2	0.134 U		1.34				1.26		0.124 J
SB-306(D)	SB-306-D-2.0	8/19/2002	2			1.35						
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5	0.134 U		0.319 J				2.49		0.192
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5			0.67 U						
SB-307(D)	SB-307-D-2.0	8/19/2002	2	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2			0.2 U						
SB-307(D)	SB-307-D-2.0	8/19/2002	2			0.0134 U						
SB-309(D)	SB-309-D-2.0	8/19/2002	2	0.067 U		0.0655 J				1.16		0.0801
SB-309(D)	SB-309-D-2.0	8/19/2002	2			0.134 U						
SB-309(D)	SB-309-D-5.0	8/19/2002	5	0.0134 U		0.000521 U				0.0202		0.00413 J
SB-309(D)	SB-309-D-5.0	8/19/2002	5			0.2 U						
SB-309(D)	SB-309-D-5.0	8/19/2002	5			0.0134 U						
SB-310(D)	SB-310-D-2.0	8/19/2002	2	0.0134 U		0.535				0.0582		0.00763 J
SB-310(D)	SB-310-D-2.0	8/19/2002	2			0.14						
SB-310(D)	SB-310-D-5.0	8/19/2002	5	0.134 U		2.68				0.965		0.0712 J
SB-310(D)	SB-310-D-5.0	8/19/2002	5			1.57						
SB-311(D)	SB-311-D-5.0	8/19/2002	5	0.45		0.000345 U				0.0657		0.671
SB-311(D)	SB-311-D-5.0	8/19/2002	5			0.0172 J						
SB-311(D)	SB-311-D-5.0	8/19/2002	5			0.0246 J						
SB-312(D)	SB-312-D-5.0	8/19/2002	5	0.0134 U		0.00106 U				0.0134 U		0.0134 U
SB-312(D)	SB-312-D-5.0	8/19/2002	5			0.0924 J						
SB-312(D)	SB-312-D-5.0	8/19/2002	5			0.0134 U						
SB-313(D)	SB-313-D-5.0	8/20/2002	5			0.705						
SB-313(D)	SB-313-D-18.0	8/20/2002	18			0.486						
SB-314(D)	SB-314-D-2.0	8/20/2002	2	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-314(D)	SB-314-D-10.0	8/20/2002	10	0.0134 U		2.09				4.13		0.428

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-314(D)	SB-314-D-15.0	8/20/2002	15	0.0134 U		0.0198				0.0134 U		0.0134 U
SB-314(D)	SB-314-D-15.0	8/20/2002	15			0.106 J						
SB-314(D)	SB-314-D-15.0	8/20/2002	15			0.0509						
SB-315(D)	SB-315-D-2.0	8/20/2002	2	0.0134 U		0.00124 U				0.0134 U		0.0134 U
SB-315(D)	SB-315-D-2.0	8/20/2002	2			0.2 U						
SB-315(D)	SB-315-D-2.0	8/20/2002	2			0.0134 U						
SB-315(D)	SB-315-D-5.0	8/20/2002	5	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-315(D)	SB-315-D-15.0	8/20/2002	15			0.0101						
SB-315(D)	SB-315-D-15.0	8/20/2002	15			0.0417 J						
SB-316(D)	SB-316-D-2.0	8/20/2002	2	0.0134 U		0.00225 U				0.00986 J		0.0136
SB-316(D)	SB-316-D-2.0	8/20/2002	2			0.2 U						
SB-316(D)	SB-316-D-2.0	8/20/2002	2			0.0134 U						
SB-316(D)	SB-316-D-5.0	8/20/2002	5			3.21						
SB-316(D)	SB-D-DUP-3	8/20/2002	5	0.0268 U		1.64				0.0115 J		0.0254 J
SB-316(D)	SB-D-DUP-3	8/20/2002	5			0.515						
SB-316(D)	SB-316-D-10.0	8/20/2002	10	0.067 U		5.96				0.067 U		0.067 U
SB-316(D)	SB-316-D-10.0	8/20/2002	10			0.981						
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5	0.0134 U		4.58				0.0134 U		0.0134 U
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5			0.272						
SB-318(D)	SB-318-D-10.0	8/20/2002	10			8.34						
SB-318(D)	SB-318-D-15.0	8/20/2002	15			6.57						
SB-320(D)	SB-320(D)-2	9/10/2003	2			0.0204						
SB-320(D)	SB-320(D)-5	9/10/2003	5			0.2 U						
SB-321(D)	SB-321(D)-2	9/9/2003	2			0.2 U						
SB-321(D)	SB-321(D)-5	9/9/2003	5			0.285						
SB-322(D)	SB-322(D)-2	9/10/2003	2			0.2 U						
SB-322(D)	SB-322(D)-5	9/10/2003	5			0.0273						
SB-323(D)	SB-323(D)-7	9/10/2003	7	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-323(D)	SB-323(D)-7	9/10/2003	7			0.2 U						
SB-324(D)	SB-324(D)-2	9/10/2003	2			0.218						
SB-324(D)	SB-324(D)-5	9/10/2003	5			0.0299						
SB-324(D)	SB-324(D)-10	9/10/2003	10			0.791						
SB-324(D)	SB-324(D)-15	9/10/2003	15			0.413						
SB-324(D)	SB-324(D)-DUP	9/10/2003	15			2.59						
SB-325(D)	SB-325(D)-2	9/10/2003	2			0.2 U						
SB-325(D)	SB-325(D)-DUP	9/10/2003	2			0.2 U						
SB-325(D)	SB-325(D)-5	9/10/2003	5			0.2 U						
SB-325(D)	SB-325(D)-10	9/10/2003	10			0.0141						
SB-325(D)	SB-325(D)-15	9/10/2003	15			0.2 U						
SB-326(D)	SB-326(D)-2	9/9/2003	2			0.0344						
SB-326(D)	SB-326(D)-5	9/9/2003	5			1.24						
SB-326(D)	SB-326(D)-10	9/9/2003	10			1.32						
SB-327(D)	SB-327(D)-2	9/10/2003	2			0.0329 J						
SB-327(D)	SB-327(D)-5	9/10/2003	5			0.2 U						
SB-327(D)	SB-327(D)-10	9/10/2003	10			2.85						
SB-327(D)	SB-327(D)-15	9/10/2003	15			4.19						
SB-328(D)	SB-328(D)-2	9/10/2003	2			0.031 J						
SB-328(D)	SB-328(D)-5	9/10/2003	5			0.0234 J						
SB-328(D)	SB-328(D)-10	9/10/2003	10			9.58						
SB-328(D)	SB-328(D)-15	9/10/2003	15			0.11						
SB-402(F)	SB-402(F)-2.5	8/23/2002	2.5			0.00732						
SB-405(F)	SB-405(F)-7.5	8/22/2002	7.5			6.49						
SB-406(F)	SB-406(F)-2.5	8/22/2002	2.5	0.0186		0.00892 J				0.0105 J		0.0241
SB-407(F)	SB407/S-2(6-8)	8/22/2002	7			1.46						
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5	0.067 U J		1.01 J				0.0492 J		0.0215 J
SB-407(F)	SB-407(F)-7.5	8/22/2002	7.5			0.588 J						
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5	0.0672		0.001 U				0.134 U		0.084
SB-408(F)	SB-408(F)-2.5	8/22/2002	2.5			0.134 U						

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SVOCs IN SOIL

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Astoria Area-Wide Petroleum Site
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Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-408(F)	SB408/S-2(6-7)	8/22/2002	6.5			1.37						
SB-408(F)	SB-408(F)-7.5	8/22/2002	7.5	0.0134 U		0.0276				0.0134 U		0.00613 J
SB-410(F)	SB-410(F)-2'	3/31/2004	2			0.023 J						
SB-410(F)	SB-410(F)-4'	3/31/2004	4	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-410(F)	SB-410(F)-4'	3/31/2004	4			0.0134 U						
SB-410(F)	SB-410(F)-9'	3/31/2004	9			0.2 U						
SB-600(N)	SB-600(N)-7	9/13/2002	7			69						
SB-601(N)	SB-601(N)-3	9/13/2002	3	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-601(N)	SB-601(N)-3	9/13/2002	3			0.0134 U						
SB-601(N)	SB-601(N)-7	9/13/2002	7	0.067 U		94.4				0.067 U		0.067 U
SB-601(N)	SB-601(N)-7	9/13/2002	7			36.3						
SB-602(N)	SB-602(N)-3	9/13/2002	3			0.502						
SB-602(N)	SB-602(N)-7	9/13/2002	7	1 U		141				1.64		0.145
SB-602(N)	SB-602(N)-7	9/13/2002	7	0.1 U		11.3				2.03		1 U
SB-602(N)	SB-602(N)-7	9/13/2002	7			71.1						
SB-602(N)	SB-602(N)-7	9/13/2002	7			91.8						
SB-603(N)	SB-603(N)-7	9/13/2002	7	0.067 U		40.3				0.321		0.067 U
SB-603(N)	SB-603(N)-7	9/13/2002	7			33.3						
SB-603(N)	SB-603(N)-7	9/13/2002	7			79.7						
SB-604(N)	SB-604(N)-3	9/13/2002	3			0.05 U						
SB-604(N)	SB-604(N)-7	9/13/2002	7	0.134 U		58.3				0.383		0.134 U
SB-604(N)	SB-604(N)-7	9/13/2002	7			20.8						
SB-605(N)	SB-605(N)-3	9/13/2002	3	0.0134 U		5.22				0.0718		0.0134 U
SB-605(N)	SB-605(N)-3	9/13/2002	3			0.348						
SB-605(N)	SB-605(N)-7	9/13/2002	7	0.134 U		132				1.49		0.145
SB-605(N)	SB-605(N)-7	9/13/2002	7			38.7						
SB-606(N)	SB-606(N)-3	9/13/2002	3			0.05 U						
SB-606(N)	SB-606(N)-7	9/13/2002	7			0.05 U						
SB-607(N)	SB-607(N)-11	9/13/2002	11			0.0947						
SB-608(N)	SB-608(N)-3	9/13/2002	3	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-608(N)	SB-608(N)-3	9/13/2002	3			0.0134 U						
SB-608(N)	SB-608(N)-6	9/13/2002	6			0.2 U						
SB-609(N)	SB-609(N)-3	9/13/2002	3			0.2 U						
SB-609(N)	SB-609(N)-7	9/13/2002	7			0.2 U						
SB-612(N)	SB-612 (N)-7	9/12/2002	7	0.1 U		38.3				2.43		0.164
SB-612(N)	SB-612 (N)-7	9/12/2002	7			94.1						
SB-612(N)	SB-612 (N)-7	9/12/2002	7			38.5						
SB-613(N)	SB-613 (N)-5.5	9/12/2002	5.5			34.1						
SB-614(N)	SB-614 (N)-7	9/12/2002	7			30.6						
SB-615(N)	SB-615 (N)-7	9/12/2002	7			25.3						
SB-616(N)	SB-616 (N)-7	9/12/2002	7			81.3						
SB-617(N)	SB-617 (N)-3	9/12/2002	3	0.01 U		0.01 U				0.01 U		0.01 U
SB-617(N)	SB-617 (N)-3	9/12/2002	3			0.05 U						
SB-617(N)	SB-617 (N)-3	9/12/2002	3			0.2 U						
SB-617(N)	SB-617 (N)-5.5	9/12/2002	5.5			0.113						
SB-618(N)	SB-618 (N)-1.5	9/12/2002	1.5			0.226						
SB-618(N)	SB-618 (N)-7	9/12/2002	7	1.65 U	1.65 U	40.2	1.65 U	1.65 U	5 U	6.04	1.65 U	1.65 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7			42.8						
SB-618(N)	SB-618 (N)-7	9/12/2002	7			36.1						
SB-619(N)	SB-619 (N)-7	9/12/2002	7	0.01 U		0.01 U				0.01 U		0.01 U
SB-619(N)	SB-619 (N)-7	9/12/2002	7			0.2 U						
SB-619(N)	SB-619 (N)-7	9/12/2002	7			0.05 U						
SB-619(N)	SB-619 (N)-11	9/12/2002	11	0.01 U		21.3				3.95		0.133
SB-619(N)	SB-619 (N)-11	9/12/2002	11			16.6				2.84		
SB-619(N)	SB-619 (N)-11	9/12/2002	11			80.4						
SB-619(N)	SB-619 (N)-11	9/12/2002	11			1.43						
SB-620(N)	SB-620 (N)-3	9/12/2002	3			0.0517						
SB-620(N)	SB-620 (N)-7	9/12/2002	7	0.01 U		9.28				5.92		0.453

TABLE D-5

SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-620(N)	SB-620 (N)-7	9/12/2002	7			12.3				8.84		
SB-620(N)	SB-620 (N)-7	9/12/2002	7			56.1						
SB-620(N)	SB-620 (N)-7	9/12/2002	7			30.6						
SB-621(N)	SB-621 (N)-7	9/12/2002	7			0.05 U						
SB-622(N)	SB-622 (N)-2	9/12/2002	2			0.05 U						
SB-622(N)	SB-622 (N)-7	9/12/2002	7			0.001 U						
SB-622(N)	SB-622 (N)-7	9/12/2002	7			0.05 U						
SB-623(N)	SB-623 (N)-7	9/12/2002	7			18.3						
SB-623(N)	SB-623 (N)-7	9/12/2002	7			26						
SB-624(N)	SB-624 (N)-2	9/12/2002	2			0.05 U						
SB-624(N)	SB-624 (N)-7	9/12/2002	7	3.3 U	3.3 U	9.65	3.3 U	3.3 U	10 U	8.52	3.3 U	3.3 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7			6.07						
SB-625(N)	SB-625 (N)-2	9/12/2002	2			0.05 U						
SB-625(N)	SB-625 (N)-7	9/12/2002	7	0.01 U		0.0377				0.0333		0.01 U
SB-625(N)	SB-625 (N)-7	9/12/2002	7			0.05 U						
SB-625(N)	SB-625 (N)-7	9/12/2002	7			0.2 U						
SB-625(N)	SB-625 (N)-10	9/12/2002	10			0.898						
SB-626(N)	SB-626 (N)-7	9/12/2002	7	0.01 U		0.01 U				0.0391		0.01 U
SB-626(N)	SB-626 (N)-7	9/12/2002	7			65.9						
SB-626(N)	SB-626 (N)-7	9/12/2002	7			96.2						
SB-627(N)	SB-627(N)-2	8/28/2003	2	0.0743		0.0335 J				0.0385 J		0.074
SB-627(N)	SB-627(N)-2	8/28/2003	2			0.0291 J						
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5	0.67 U		25.5				13		0.671
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5			25.5						
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5	0.134 U		38.9				0.0714 J		0.134 U
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5			36.6						
SB-700(P)	SB-700(P)-3	8/21/2002	3			0.001 U						
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.0134 U		1.81				0.0133 J		0.0134 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5			1.94						
SB-701(P)	SB-701(P)-2	8/20/2002	2			0.001 U						
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-701(P)	SB-701(P)-11	8/20/2002	11			0.0134 U						
SB-701(P)	SB-701(P)-12	8/20/2002	12			0.0465						
SB-702(P)	SB-702(P)-2	8/21/2002	2			0.001 U						
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.0134 U		0.00183				0.0134 U		0.0134 U
SB-702(P)	SB-702(P)-11	8/21/2002	11			0.0134 U						
SB-703(P)	SB-703(P)-2	8/21/2002	2			0.00104						
SB-703(P)	SB-703(P)-10	8/21/2002	10			0.000874 J						
SB-704(P)	SB-704(P)-2	8/21/2002	2			0.001 U			6 U		6 U	
SB-704(P)	SB-704(P)-11	8/21/2002	11			0.001 U			2 U		2 U	
SB-705(P)	SB-705(P)-3	8/20/2002	3						6 U		6 U	
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5						2 U		2 U	
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	0.0134 U		0.0134 U			6 U	0.0134 U	6 U	0.0134 U
SB-705(P)	SB-705(P)-12	8/20/2002	12						2 U		2 U	
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5			0.000541 J						
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-707(P)	SB-707(P)-10	8/21/2002	10			0.0134 U						
SB-708(P)	SB-708(P)-10	8/20/2002	10	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-709(P)	SB-709(P)-3	8/21/2002	3			0.000698 U B						
SB-709(P)	SB-709(P)-10	8/21/2002	10			0.001 U						
SB-709(P)	SB-709(P)-10	8/21/2002	10			U B						
SB-710(P)	SB-710(P)-3	8/21/2002	3	0.00864 J		0.000591 J				0.0268 U		0.0163 J
SB-710(P)	SB-710(P)-3	8/21/2002	3			0.0268 U						
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5			0.00099						
SB-710(P)	SB-710(P)-5.5	8/21/2002	5.5			0.00217						
SB-711(P)	SB-711(P)-3	8/21/2002	3			0.00041 U JB						
SB-711(P)	SB-711(P)-10	8/21/2002	10			0.000623 U JB						

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SVOCs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-712(P)	SB-712(P)-2	8/21/2002	2			0.00345						
SB-712(P)	SB-712(P)-2	8/21/2002	2			0.00354						
SB-712(P)	SB-712(P)-10	8/21/2002	10	0.116 J		0.134 U				0.9		0.753
SB-714(P)	SB-714(P)-7.5	8/21/2002	7.5	0.0133 J		39.7				4.77		0.567
SB-714(P)	SB-714(P)-10	8/21/2002	10			37						
SB-716(P)	SB-716(P)-3	8/20/2002	3			0.00052 J						
SB-716(P)	SB-716(P)-10	8/20/2002	10	0.0134 U		0.000576 J				0.0134 U		0.0134 U
SB-716(P)	SB-716(P)-10	8/20/2002	10			0.0134 U						
SB-717(P)	SB-717(P)-3	8/20/2002	3			0.000488 J						
SB-717(P)	SB-717(P)-10	8/20/2002	10			0.000501 J						
SB-719(P)	SB-719(P)-12	8/23/2002	12	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-720(P)	SB-720(P)-2	8/23/2002	2	0.143		0.0134 U				0.0928		0.335
SB-720(P)	SB-720(P)-11.5	8/23/2002	11.5	0.067 U		24.1				4.35		0.181
SB-721(P)	SB-721(P)-7'	3/31/2004	7	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-721(P)	SB-721(P)-7'	3/31/2004	7			0.0134 U						
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-	0.0252 J		0.07 J				0.067 U		0.0225 J
SB-820(Q)	SB-820 (Q)-0C	8/29/2002	-			0.067 U						
SB-834(Q)	SB-834(Q)-2	9/5/2003	2	0.0134 U		0.0808 J				0.0134 U		0.0134 U
SB-834(Q)	SB-834(Q)-2	9/5/2003	2			0.0134 U						
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5	0.0134 U		0.127 J				0.0134 U		0.0134 U
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5			0.0134 U						
SB-835(Q)	SB-835(Q)-2	9/5/2003	2	0.0149		0.2 U				0.0117 J		0.0244
SB-835(Q)	SB-835(Q)-2	9/5/2003	2			0.0134 U						
SB-835(Q)	SB-835(Q)-7	9/5/2003	7	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-835(Q)	SB-835(Q)-7	9/5/2003	7			0.0134 U						
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.00763 J		0.00071 J				0.0239		0.0301
SB-900(S)	SB-900(S)-4	8/26/2002	4			0.00822 J						
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.0134 U		0.0886 J				0.0134 U		0.0134 U
SB-900(S)	SB-900(S)-12	8/26/2002	12			1.34 U						
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.0134 U		0.001 U				0.169		0.067 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12			0.335 U						
SB-903(S)	SB-903 (S)-10	8/26/2002	10	0.0134 U		1 U				2.66		0.202 J
SB-903(S)	SB-903 (S)-10	8/26/2002	10			3.35 U						
SB-904(S)	SB-904 (S)-12	8/26/2002	12	0.0134 U		15.1				3.32		0.193 J
SB-904(S)	SB-904 (S)-12	8/26/2002	12			4.06						
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.00438 J		0.00884				0.0304 J		0.067 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12			0.067 U						
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.00516 J		0.001 U				0.035		0.0121 J
SB-906(S)	SB-906 (S)-4	8/27/2002	4			0.067 U						
SB-906(S)	SB-906 (S)-12	8/27/2002	12	0.00544 J		0.146 J				3		0.216
SB-906(S)	SB-906 (S)-12	8/27/2002	12			3.35 U						
SB-908(S)	SB-908 (S)-4	8/27/2002	4	0.268 U		0.2 U				0.799		0.462
SB-908(S)	SB-908 (S)-4	8/27/2002	4			3.35 U						
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.268 U		0.001 U				0.306 J		0.264 J
SB-908(S)	SB-908 (S)-8	8/27/2002	8			0.67 U						
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.0134 U		0.0134 U				0.0134 U		0.0134 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10			0.001 U						
SB-909(S)	SB-909 (S)-4	8/27/2002	4	0.134 U		0.134 U				0.0495 J		0.0412 J
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.0134 U		0.001 U				0.0134 U		0.0134 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4			0.0134 U						
SB-912(S)	SB-912(S)-2	9/3/2003	2	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-912(S)	SB-912(S)-2	9/3/2003	2			0.0134 U						
SB-912(S)	SB-912(S)-7	9/3/2003	7	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-912(S)	SB-912(S)-7	9/3/2003	7			0.0134 U						
SB-913(S)	SB-913(S)-2	9/3/2003	2	0.67 U		0.2 U				0.67 U		0.67 U
SB-913(S)	SB-913(S)-2	9/3/2003	2			0.67 U						
SB-913(S)	SB-913(S)-7	9/3/2003	7	0.335 U		0.2 U				0.335 U		0.335 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene	n-Nitrosodi phenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-913(S)	SB-913(S)-7	9/3/2003	7			0.335 U						
SB-914(S)	SB-914(S)-2	9/3/2003	2	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-914(S)	SB-914(S)-2	9/3/2003	2			0.0134 U						
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5	0.0134 U		0.2 U				0.0134 U		0.0134 U
SB-914(S)	SB-914(S)-7.5	9/3/2003	7.5			0.0134 U						
SB-915(S)	SB-915(s)-5.0	3/31/2004	5	0.067 U		0.067 U				0.067 U		0.067 U
TP-201(C)	TP201(C)6E	8/27/2002	-	0.0134 U		0.000672 J				0.0134 U		0.0134 U
TP-201(C)	TP201(C)6E	8/27/2002	-			0.0134 U						
TP-202(C)	TP202(C)6W	8/27/2002	-	0.0134 U		0.000461 J				0.0134 U		0.0134 U
TP-202(C)	TP202(C)6W	8/27/2002	-			0.0134 U						

TABLE D-6

FORMALDEHYDE

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample date	Depth	Formaldehyde
			feet	mg/kg
SB-704(P)	SB-704(P)-11	8/21/2002	11	2 U
SB-705(P)	SB-705(P)-3	8/20/2002	3	2 U
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	2.8
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	2 U
SB-705(P)	SB-705(P)-12	8/20/2002	12	2 U

TABLE D-7

METALS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5						8.43
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5						2.51
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5						2.72
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5						6.56
SB-005(A)	SB-005(A)-7	9/5/2003	7						3.24
SB-006(A)	SB-006(A)-7'	3/31/2004	7						2.34
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5						4.51
SB-008(A)	SB-008(A)-2	8/26/2003	2						7.09
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5						4.24
SB-009(A)	SB-009(A)-2	8/27/2003	2						4.66
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5						3.27
SB-010(A)	SB-010(A)-2	8/27/2003	2						2.76
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5						2.86
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5						3.31
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5						2.62
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5						7.44
SB-020(A)	SB-020(A)-4'	3/31/2004	4						4.59
SB-020(A)	SB-020(A)-9'	3/31/2004	9						2.48
SB-100(C)	SB100(C)3	8/22/2002	3	1.42	55.1	0.312 U	12.3		4.69
SB-100(C)	SB100(C)20	8/22/2002	20	3.84	149	0.37 U	18.9		15.3
SB-200(C)	SB200(C)3	8/22/2002	3	2.03	37.7	0.407 U	7.26		3.69
SB-200(C)	SB200(C)6	8/22/2002	6	1.88	32.4	0.403 U	10.8		4.03
SB-201(C)	SB201(C)3	8/22/2002	3	1.66	40.7	0.385 U	8.79		5.54
SB-201(C)	SB201(C)6	8/22/2002	6	6.88	37	0.427 U	14.8		18.5
SB-202(C)	SB202(C)2	8/22/2002	2	24.2	30.1	0.413 U	8.48		23.1
SB-202(C)	SB202(C)3	8/22/2002	3	1.84	31.8	0.397 U	8.94		3.39
SB-202(C)	SB202(C)7	8/22/2002	7	2.07	36.2	0.376 U	6.98		3.2
SB-203(C)	SB203(C)3	8/22/2002	3	6.99	69.9	0.388 U	8.06		5.18
SB-203(C)	SB203(C)7	8/22/2002	7	5.52	43.1	0.357 U	9.53		4.97
SB-204(C)	SB204(C)3	8/22/2002	3	5.33	44.4	0.388 U	6.63		3.76
SB-204(C)	SB204(C)8	8/22/2002	8	1.53	32.9	0.376 U	6.25		3.27
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	2.04	34.3	0.5 U	12.2		1.33
SB-206(C)	SB206(C)-6	8/27/2002	6	1.95	52.6	0.5 U	8.61		1.94
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	2.49	76.1	0.442 U	10.8		3.22
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	1.92	45.5	0.5 U	10.2		2.49
SB-209(C)	SB209(C)-3	8/27/2002	3	1.59	41.4	0.5 U	8.7		6.68
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	1.79	36.5	0.5 U	8.91		1.85
SB-211(C)	SB211(C)-3	8/27/2002	3	1.78	52.4	0.435 U	9.56		3.35

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	1.24	53.7	0.5 U	8.48		1.84
SB-213(C)	SB213(C)-4	8/27/2002	4	1.65	56.7	0.455 U	11.5		2.67
SB-214(C)	SB214(C)-5	8/27/2002	5	1.59	38.6	0.403 U	7.74		2.78
SB-215(C)	SB215(C)-5	8/27/2002	5	1.87	37.3	0.391 U	10.2		2.47
SB-216(C)	SB216(C)-3	8/27/2002	3	1.58	40	0.5 U	9.36		2.26
SB-217(C)	SB217(C)-3	8/28/2002	3	2.52	46.5	0.5 U	7.67		1.49
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	2.43	45.7	0.5 U	9.06		2.62
SB-219(C)	SB219(C)-4	8/28/2002	4	1.09	36.4	0.5 U	8.94		0.981
SB-220(C)	SB220 (C)-5	8/28/2002	5	1.18	31.8	0.5 U	6.06		8.5
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	1.43	43	0.431 U	7.81		2.66
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	1.38	35	0.4 U	9.73		3.25
SB-223(C)	SB223 (C)-6	8/29/2002	6	1.18	31.8	0.5 U	5.5		2.21
SB-224(C)	SB224 (C)-2	8/29/2002	2	1.32	24.6	0.45 U	5.25		2.14
SB-225(C)	SB225 (C)-3	8/29/2002	3	6.67	36.2	0.427 U	5.66		2.54
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.991	24.8	0.362 U	4.08		1.54
SB-227(C)	SB227 (C)-8	8/29/2002	8	1.84	34.9	0.403 U	6.42		2.76
SB-228(C)	SB228 (C)-4	8/29/2002	4	1.51	51.9	0.424 U	92.2		178
SB-229(C)	SB229 (C)-8	8/29/2002	8	1.55	27.8	0.417 U	10.1		2.61 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	1.71	33	0.26 U	6.43		2.54
SB-231(C)	SB231 (C)-2	8/29/2002	2	3.93	49.4	0.455 U	7.23		4.49
SB-239(C)	SB-239(C)-4	9/3/2002	4	1.77	40.9	0.329 U	10.3		3.42
SB-240(C)	SB-240(C)-6	9/3/2002	6	3.75	52.4	0.373 U	11.9		5.42
SB-241(C)	SB-241(C)-5	9/3/2002	5	1.69	40.9	0.403 U	12.4		4.24
SB-242(C)	SB-242(C)-4	9/3/2002	4	1.33	43.5	0.413 U	9.87		3.9
SB-243(C)	SB-243(C)-4	9/3/2002	4	1.81	40.5	0.668	8.61		5.26
SB-244(C)	SB-244(C)-3	9/3/2002	3	2.86	42.9	0.4 U	10.1		3.33
SB-245(C)	SB-245(C)-5	9/3/2002	5	1.52	33.7	0.336 U	7.56		2.33
SB-246(C)	SB-246(C)-5	9/3/2002	5	1.75	34.7	0.427 U	15.6		3.51
SB-247(C)	SB-247(C)-6	9/3/2002	6	1.41	34.4	0.336 U	7.4		2.69
SB-250(C)	SB-250(C)-4	9/9/2002	4	1.72	49.6	0.362 U	10		7.47
SB-251(C)	SB-251(C)-4	9/9/2002	4	2.12	44.9	0.329 U	6.78		4.16
SB-252(C)	SB-252(C)-5	9/9/2002	5	1.31	30.6	0.292 U	5.61		2.5
SB-253(C)	SB-253(C)-2	9/4/2003	2						2.55
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5						3.73
SB-254(C)	SB-254(C)-2	9/4/2003	2						34.1
SB-254(C)	SB-254(C)-7	9/4/2003	7						31.5
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5						38.8
SB-255(C)	SB-255(C)-7	9/4/2003	7						107
SB256(C)	SB256 (c) 6	3/31/2004	6	2.19	37.5	0.403 U	6.81		2.68
SB257(C)	SB257 (c) 8	3/31/2004	8				3.48	10 U	

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Locator ID	Sample ID	Sample Date	Depth	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB258(C)	SB258 (c) 8.5	3/31/2004	8.5				16.3	10 U	
SB259(C)	SB259 (c) 8.5	3/31/2004	8.5				12.9	10 U	
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5						18.9
SB-304(D)	SB-304-D-2.0	8/19/2002	2						20.9
SB-304(D)	SB-D-DUP-0819	8/19/2002	2						25.1
SB-304(D)	SB-304-D-5.0	8/19/2002	5						8.16
SB-305(D)	SB-305-D-2.0	8/19/2002	2						6.53
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5						3.38
SB-306(D)	SB-306-D-2.0	8/19/2002	2						3.51
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5						1.54 U
SB-307(D)	SB-307-D-2.0	8/19/2002	2						0.784 U
SB-309(D)	SB-309-D-2.0	8/19/2002	2						5.22
SB-309(D)	SB-309-D-5.0	8/19/2002	5						0.773 U
SB-310(D)	SB-310-D-2.0	8/19/2002	2						0.829 U
SB-310(D)	SB-310-D-5.0	8/19/2002	5						144
SB-311(D)	SB-311-D-5.0	8/19/2002	5						32.5
SB-312(D)	SB-312-D-5.0	8/19/2002	5						2.42
SB-313(D)	SB-313-D-5.0	8/20/2002	5						23.7
SB-313(D)	SB-313-D-18.0	8/20/2002	18						13.2
SB-314(D)	SB-314-D-15.0	8/20/2002	15						4.36
SB-315(D)	SB-315-D-2.0	8/20/2002	2						7.17
SB-315(D)	SB-315-D-15.0	8/20/2002	15						3.72
SB-316(D)	SB-316-D-2.0	8/20/2002	2						7.5
SB-316(D)	SB-316-D-5.0	8/20/2002	5						7.96
SB-316(D)	SB-D-DUP-3	8/20/2002	5						9.2
SB-316(D)	SB-316-D-10.0	8/20/2002	10						13.9
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5						5.96
SB-318(D)	SB-318-D-10.0	8/20/2002	10						4.89
SB-318(D)	SB-318-D-15.0	8/20/2002	15						7.76
SB-410(F)	SB-410(F)-4'	3/31/2004	4						1.66
SB-410(F)	SB-410(F)-9'	3/31/2004	9						5.42
SB-601(N)	SB-601(N)-3	9/13/2002	3						4.32
SB-601(N)	SB-601(N)-7	9/13/2002	7						10.7
SB-602(N)	SB-602(N)-7	9/13/2002	7						3.13
SB-603(N)	SB-603(N)-7	9/13/2002	7						3.58
SB-604(N)	SB-604(N)-7	9/13/2002	7						27.4
SB-605(N)	SB-605(N)-3	9/13/2002	3						3.84

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-605(N)	SB-605(N)-7	9/13/2002	7						3.47
SB-608(N)	SB-608(N)-3	9/13/2002	3						3.25
SB-608(N)	SB-608(N)-6	9/13/2002	6						11.2
SB-615(N)	SB-615 (N)-7	9/12/2002	7						4.76
SB-618(N)	SB-618 (N)-7	9/12/2002	7						7.6
SB-620(N)	SB-620 (N)-7	9/12/2002	7						3.76
SB-623(N)	SB-623 (N)-7	9/12/2002	7						4.91
SB-624(N)	SB-624 (N)-7	9/12/2002	7						3.75
SB-626(N)	SB-626 (N)-7	9/12/2002	7						6.45
SB-627(N)	SB-627(N)-2	8/28/2003	2						31.4
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5						2.49
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5						27.7
SB-700(P)	SB-700(P)-3	8/21/2002	3	2.33	46	0.5 U	7.75		53.2
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	1.25	48.5	0.5 U	10.6		9.04
SB-701(P)	SB-701(P)-2	8/20/2002	2	1.23	29.9	0.5 U	3.97		2.15
SB-701(P)	SB-701(P)-11	8/20/2002	11	2.07	50.7	0.5 U	13.1		3.46
SB-701(P)	SB-701(P)-12	8/20/2002	12	1.34	36	0.5 U	10.2		2.41
SB-702(P)	SB-702(P)-2	8/21/2002	2	8.46	161	0.5 U	21.9		36.7
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.811	29.6	0.5 U	5.11		2.08
SB-703(P)	SB-703(P)-2	8/21/2002	2	3.35	77.3	0.5 U	14.6		33.9
SB-703(P)	SB-703(P)-10	8/21/2002	10	1.87	40.1	0.5 U	7.96		2.24
SB-704(P)	SB-704(P)-2	8/21/2002	2	2.69	80.9	0.5 U	12.1		19.6
SB-704(P)	SB-704(P)-11	8/21/2002	11	1.16	31.9	0.5 U	10.2		2.12
SB-705(P)	SB-705(P)-3	8/20/2002	3	1.36	38.6	0.5 U	7.96		2.24
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	5.77	98.3	0.5 U	28.3		9.35
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	1.47	38.4	0.5 U	10.3		2.55
SB-705(P)	SB-705(P)-12	8/20/2002	12	1.89	33.4	0.5 U	7.73		2.29
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5	1.49	32.5	0.5 U	8		2.49
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	4.18	84	0.5 U	16.1		5.61
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	1.88	50.1	0.5 U	8.61		3.85
SB-706(P)	SB-706(P)-12	8/21/2002	12	2.28	38.2	0.5 U	8.72		2.13
SB-707(P)	SB-707(P)-2	8/21/2002	2	2.93	46.2	0.5 U	10.4		9.9
SB-707(P)	SB-707(P)-10	8/21/2002	10	12.8	40.8	0.5 U	7.01		2.03
SB-708(P)	SB-708(P)-3	8/20/2002	3	1.59	46.6	0.5 U	11		4.19
SB-708(P)	SB-708(P)-10	8/20/2002	10	1.33	31.3	0.5 U	6.71		2.6
SB-714(P)	SB-714(P)-10	8/21/2002	10						4.57
SB-721(P)	SB-721(P)-3'	3/31/2004	3						13
SB-721(P)	SB-721(P)-7'	3/31/2004	7						5.36

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-834(Q)	SB-834(Q)-2	9/5/2003	2						3.21
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5						3.63
SB-835(Q)	SB-835(Q)-2	9/5/2003	2						17.9
SB-835(Q)	SB-835(Q)-7	9/5/2003	7						2.49
SB-900(S)	SB-900(S)-4	8/26/2002	4			0.5 U	11.7 J		45.1
SB-900(S)	SB-900(S)-12	8/26/2002	12			0.379 U	9.62 J		7.91 J
SB-901(S)	SB-901 (S)-8	8/26/2002	8			0.5 U	7.01 J		2.82 J
SB-901(S)	SB-901 (S)-10	8/26/2002	10			0.5 U	13.9 J		4.84 J
SB-902(S)	SB-902 (S)-8	8/26/2002	8			0.5 U	7.52 J		3.98
SB-902(S)	SB-902 (S)-12	8/26/2002	12			0.5 U	9.89 J		4.46
SB-903(S)	SB-903 (S)-8	8/26/2002	8			0.455 U	6.09 J		5.94
SB-903(S)	SB-903 (S)-10	8/26/2002	10			0.424 U	9.24 J		2.74
SB-904(S)	SB-904 (S)-4	8/26/2002	4			0.5 U	9.64 J		15.6
SB-904(S)	SB-904 (S)-12	8/26/2002	12			0.5 U	11.6 J		2.93
SB-905(S)	SB-905 (S)-4	8/26/2002	4			0.5 U	8.11 J		13.9
SB-905(S)	SB-905 (S)-12	8/26/2002	12			0.427 U	7.47 J		2.75
SB-906(S)	SB-906 (S)-4	8/27/2002	4			0.424 U	12.4 J		200
SB-906(S)	SB-906 (S)-12	8/27/2002	12			0.446 U	11.5 J		3.22
SB-908(S)	SB-908 (S)-4	8/27/2002	4			0.397 U	8.94 J		2.82 J
SB-908(S)	SB-908 (S)-8	8/27/2002	8			0.427 U	7.37 J		2.57 J
SB-908(S)	SB-908 (S)-10	8/27/2002	10			0.37 U	9.77 J		2.23 J
SB-909(S)	SB-909 (S)-4	8/27/2002	4			0.352 U	9.65		53.1 J
SB-909(S)	SB-909 (S)-10	8/27/2002	10			0.4 U	13.1 J		37.7 J
SB-910(S)	SB-910 (S)-4	8/27/2002	4			0.5 U	7.92 J		12
SB-910(S)	SB-910 (S)-10	8/27/2002	10			0.442 U	7.31		2.79 J
SB-911(S)	SB-911 (S)-8	8/27/2002	8			0.407 U	7.36 J		3.55 J
SB-911(S)	SB-911 (S)-10	8/27/2002	10			0.5 U	11.3 J		3.99 J
TP-201(C)	TP201(C)6E	8/27/2002	-	1.48	48	0.5 U	6.48		1.81
TP-202(C)	TP202(C)6W	8/27/2002	-	1.53	46.4	0.5 U	10.9		3.41

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Mercury	Selenium	Silver
			feet	mg/kg	mg/kg	mg/kg
SB-001(A)	SB-001(A)-7.5	8/27/2003	7.5			
SB-002(A)	SB-002(A)-2.5	8/27/2003	2.5			
SB-002(A)	SB-002(A)-7.5	8/27/2003	7.5			
SB-005(A)	SB-005(A)-2.5	9/5/2003	2.5			
SB-005(A)	SB-005(A)-7	9/5/2003	7			
SB-006(A)	SB-006(A)-7'	3/31/2004	7			
SB-007(A)	SB-007(A)-7.5	8/26/2003	7.5			
SB-008(A)	SB-008(A)-2	8/26/2003	2			
SB-008(A)	SB-008(A)-7.5	8/26/2003	7.5			
SB-009(A)	SB-009(A)-2	8/27/2003	2			
SB-009(A)	SB-009(A)-7.5	8/27/2003	7.5			
SB-010(A)	SB-010(A)-2	8/27/2003	2			
SB-010(A)	SB-010(A)-7.5	8/27/2003	7.5			
SB-011(A)	SB-011(A)-7.5	9/3/2003	7.5			
SB-019(A)	SB-019(A)-2.5	8/27/2003	2.5			
SB-019(A)	SB-019(A)-7.5	8/27/2003	7.5			
SB-020(A)	SB-020(A)-4'	3/31/2004	4			
SB-020(A)	SB-020(A)-9'	3/31/2004	9			
SB-100(C)	SB100(C)3	8/22/2002	3	0.551	0.549	0.312 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.0862 U	1	0.37 U
SB-200(C)	SB200(C)3	8/22/2002	3	0.1 U	0.407 U	0.407 U
SB-200(C)	SB200(C)6	8/22/2002	6	0.0862 U	0.403 U	0.403 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.1 U	0.385 U	0.385 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.1 U	0.427 U	0.427 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.0862 U	0.413 U	0.413 U
SB-202(C)	SB202(C)3	8/22/2002	3	0.1 U	0.397 U	0.397 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.1 U	0.376 U	0.376 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.0893 U	0.388 U	0.388 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.1 U	0.357 U	0.357 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.0893 U	0.388 U	0.388 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.1 U	0.376 U	0.376 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.1 U	0.564	0.5 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.1 U	0.798	0.5 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.1 U	0.641	0.442 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.1 U	0.592	0.5 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.0893 U	0.5 U	0.5 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.1 U	0.539	0.5 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.0862 U	0.435 U	0.435 U

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METALS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Mercury	Selenium	Silver
			feet	mg/kg	mg/kg	mg/kg
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.1 U	0.5 U	0.5 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.0862 U	0.455 U	0.455 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.0862 U	0.403 U	0.403 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.1 U	0.391 U	0.391 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.0862 U	0.5 U	0.5 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.1 U	0.5 U	0.5 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.0862 U	0.5 U	0.5 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.0893 U	0.5 U	0.5 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.1 U	0.5 U	0.5 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.1 U	0.431 U	0.431 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.1 U	0.4 U	0.4 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.0862 U	0.5 U	0.5 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.1 U	0.45 U	0.45 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.1 U	0.427 U	0.427 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.1 U	0.362 U	0.362 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.1 U	0.403 U	0.403 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.1 U	0.424 U	0.424 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.1 U	0.417 U	0.417 U
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.1 U	0.26 U	0.26 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.1 U	0.455 U	0.455 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.0893 U	0.329 U	0.329 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.1 U	0.373 U	0.373 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.1 U	0.403 U	0.403 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.1 U	0.413 U	0.413 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.1 U	0.42	0.391 U
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.1 U	0.453	0.4 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.1 U	0.336 U	0.336 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.0893 U	0.427 U	0.427 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.1 U	0.336 U	0.336 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.1 U	0.362 U	0.362 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.0893 U	0.329 U	0.329 U
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.1 U	0.292 U	0.292 U
SB-253(C)	SB-253(C)-2	9/4/2003	2			
SB-253(C)	SB-253(C)-7.5	9/4/2003	7.5			
SB-254(C)	SB-254(C)-2	9/4/2003	2			
SB-254(C)	SB-254(C)-7	9/4/2003	7			
SB-255(C)	SB-255(C)-2.5	9/4/2003	2.5			
SB-255(C)	SB-255(C)-7	9/4/2003	7			
SB256(C)	SB256 (c) 6	3/31/2004	6	0.0714 U	0.403 U	0.403 U
SB257(C)	SB257 (c) 8	3/31/2004	8			

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Mercury	Selenium	Silver
			feet	mg/kg	mg/kg	mg/kg
SB258(C)	SB258 (c) 8.5	3/31/2004	8.5			
SB259(C)	SB259 (c) 8.5	3/31/2004	8.5			
SB-301(D)	SB-301-D-3.5	8/20/2002	3.5			
SB-304(D)	SB-304-D-2.0	8/19/2002	2			
SB-304(D)	SB-D-DUP-0819	8/19/2002	2			
SB-304(D)	SB-304-D-5.0	8/19/2002	5			
SB-305(D)	SB-305-D-2.0	8/19/2002	2			
SB-305(D)	SB-305-D-4.5	8/19/2002	4.5			
SB-306(D)	SB-306-D-2.0	8/19/2002	2			
SB-306(D)	SB-306-D-4.5	8/19/2002	4.5			
SB-307(D)	SB-307-D-2.0	8/19/2002	2			
SB-309(D)	SB-309-D-2.0	8/19/2002	2			
SB-309(D)	SB-309-D-5.0	8/19/2002	5			
SB-310(D)	SB-310-D-2.0	8/19/2002	2			
SB-310(D)	SB-310-D-5.0	8/19/2002	5			
SB-311(D)	SB-311-D-5.0	8/19/2002	5			
SB-312(D)	SB-312-D-5.0	8/19/2002	5			
SB-313(D)	SB-313-D-5.0	8/20/2002	5			
SB-313(D)	SB-313-D-18.0	8/20/2002	18			
SB-314(D)	SB-314-D-15.0	8/20/2002	15			
SB-315(D)	SB-315-D-2.0	8/20/2002	2			
SB-315(D)	SB-315-D-15.0	8/20/2002	15			
SB-316(D)	SB-316-D-2.0	8/20/2002	2			
SB-316(D)	SB-316-D-5.0	8/20/2002	5			
SB-316(D)	SB-D-DUP-3	8/20/2002	5			
SB-316(D)	SB-316-D-10.0	8/20/2002	10			
SB-316(D)	SB-316-D-14.5	8/20/2002	14.5			
SB-318(D)	SB-318-D-10.0	8/20/2002	10			
SB-318(D)	SB-318-D-15.0	8/20/2002	15			
SB-410(F)	SB-410(F)-4'	3/31/2004	4			
SB-410(F)	SB-410(F)-9'	3/31/2004	9			
SB-601(N)	SB-601(N)-3	9/13/2002	3			
SB-601(N)	SB-601(N)-7	9/13/2002	7			
SB-602(N)	SB-602(N)-7	9/13/2002	7			
SB-603(N)	SB-603(N)-7	9/13/2002	7			
SB-604(N)	SB-604(N)-7	9/13/2002	7			
SB-605(N)	SB-605(N)-3	9/13/2002	3			

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METALS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Mercury	Selenium	Silver
			feet	mg/kg	mg/kg	mg/kg
SB-605(N)	SB-605(N)-7	9/13/2002	7			
SB-608(N)	SB-608(N)-3	9/13/2002	3			
SB-608(N)	SB-608(N)-6	9/13/2002	6			
SB-615(N)	SB-615 (N)-7	9/12/2002	7			
SB-618(N)	SB-618 (N)-7	9/12/2002	7			
SB-620(N)	SB-620 (N)-7	9/12/2002	7			
SB-623(N)	SB-623 (N)-7	9/12/2002	7			
SB-624(N)	SB-624 (N)-7	9/12/2002	7			
SB-626(N)	SB-626 (N)-7	9/12/2002	7			
SB-627(N)	SB-627(N)-2	8/28/2003	2			
SB-629(N)	SB-629(N)-7.5	8/28/2003	7.5			
SB-632(N)	SB-632(N)-7.5	9/8/2003	7.5			
SB-700(P)	SB-700(P)-3	8/21/2002	3	0.0893 U	0.5 U	0.5 U
SB-700(P)	SB-700(P)-10.5	8/21/2002	10.5	0.0862 U	0.524	0.5 U
SB-701(P)	SB-701(P)-2	8/20/2002	2	0.0893 U	0.5 U	0.5 U
SB-701(P)	SB-701(P)-11	8/20/2002	11	0.1 U	0.5 U	0.5 U
SB-701(P)	SB-701(P)-12	8/20/2002	12	0.0893 U	0.5 U	0.5 U
SB-702(P)	SB-702(P)-2	8/21/2002	2	0.142	1.9	0.5 U
SB-702(P)	SB-702(P)-11	8/21/2002	11	0.134	0.5 U	0.5 U
SB-703(P)	SB-703(P)-2	8/21/2002	2	0.0893 U	0.62	0.5 U
SB-703(P)	SB-703(P)-10	8/21/2002	10	0.1 U	0.519	0.5 U
SB-704(P)	SB-704(P)-2	8/21/2002	2	0.1 U	0.519	0.5 U
SB-704(P)	SB-704(P)-11	8/21/2002	11	0.0862 U	0.501	0.5 U
SB-705(P)	SB-705(P)-3	8/20/2002	3	0.0862 U	0.5 U	0.5 U
SB-705(P)	SB-705(P)-5.5	8/20/2002	5.5	0.1 U	0.569	0.5 U
SB-705(P)	SB-705(P)-9.5	8/20/2002	9.5	0.1 U	0.5 U	0.5 U
SB-705(P)	SB-705(P)-12	8/20/2002	12	0.1 U	0.5 U	0.5 U
SB-706(P)	SB-706(P)-2.5	8/21/2002	2.5	0.1 U	0.5 U	0.5 U
SB-706(P)	SB-706(P)-5.5	8/21/2002	5.5	0.0862 U	0.512	0.5 U
SB-706(P)	SB-706(P)-9.5	8/21/2002	9.5	0.1 U	0.637	0.5 U
SB-706(P)	SB-706(P)-12	8/21/2002	12	0.0893 U	0.5 U	0.5 U
SB-707(P)	SB-707(P)-2	8/21/2002	2	0.1 U	0.5 U	0.5 U
SB-707(P)	SB-707(P)-10	8/21/2002	10	0.0862 U	24.5	0.5 U
SB-708(P)	SB-708(P)-3	8/20/2002	3	0.1 U	0.5 U	0.5 U
SB-708(P)	SB-708(P)-10	8/20/2002	10	0.0893 U	0.5 U	0.5 U
SB-714(P)	SB-714(P)-10	8/21/2002	10			
SB-721(P)	SB-721(P)-3'	3/31/2004	3			
SB-721(P)	SB-721(P)-7'	3/31/2004	7			

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METALS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Mercury	Selenium	Silver
			feet	mg/kg	mg/kg	mg/kg
SB-834(Q)	SB-834(Q)-2	9/5/2003	2			
SB-834(Q)	SB-834(Q)-7.5	9/5/2003	7.5			
SB-835(Q)	SB-835(Q)-2	9/5/2003	2			
SB-835(Q)	SB-835(Q)-7	9/5/2003	7			
SB-900(S)	SB-900(S)-4	8/26/2002	4			
SB-900(S)	SB-900(S)-12	8/26/2002	12			
SB-901(S)	SB-901 (S)-8	8/26/2002	8			
SB-901(S)	SB-901 (S)-10	8/26/2002	10			
SB-902(S)	SB-902 (S)-8	8/26/2002	8			
SB-902(S)	SB-902 (S)-12	8/26/2002	12			
SB-903(S)	SB-903 (S)-8	8/26/2002	8			
SB-903(S)	SB-903 (S)-10	8/26/2002	10			
SB-904(S)	SB-904 (S)-4	8/26/2002	4			
SB-904(S)	SB-904 (S)-12	8/26/2002	12			
SB-905(S)	SB-905 (S)-4	8/26/2002	4			
SB-905(S)	SB-905 (S)-12	8/26/2002	12			
SB-906(S)	SB-906 (S)-4	8/27/2002	4			
SB-906(S)	SB-906 (S)-12	8/27/2002	12			
SB-908(S)	SB-908 (S)-4	8/27/2002	4			
SB-908(S)	SB-908 (S)-8	8/27/2002	8			
SB-908(S)	SB-908 (S)-10	8/27/2002	10			
SB-909(S)	SB-909 (S)-4	8/27/2002	4			
SB-909(S)	SB-909 (S)-10	8/27/2002	10			
SB-910(S)	SB-910 (S)-4	8/27/2002	4			
SB-910(S)	SB-910 (S)-10	8/27/2002	10			
SB-911(S)	SB-911 (S)-8	8/27/2002	8			
SB-911(S)	SB-911 (S)-10	8/27/2002	10			
TP-201(C)	TP201(C)6E	8/27/2002	-	0.1 U	0.611	0.5 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.0862 U	0.5 U	0.5 U

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TCLP METALS IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Cadmium	Chromium	Lead
			feet	mg/L	mg/L	mg/L
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.1 U	0.1 U	
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.1 U	0.1 U	
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.1 U	0.1 U	
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.1 U	0.1 U	
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.1 U	0.1 U	
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.1 U	0.1 U	
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.1 U	0.1 U	
SB-618(N)	SB-618 (N)-7	9/12/2002	7	0.25 U	0.25 U	0.25 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.25 U	0.25 U	

TABLE D-9

PCBs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Aroclor 1258	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-100(C)	SB100(C)3	8/22/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-100(C)	SB100(C)20	8/22/2002	20	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-200(C)	SB200(C)3	8/22/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-200(C)	SB200(C)6	8/22/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-201(C)	SB201(C)3	8/22/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-201(C)	SB201(C)6	8/22/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-202(C)	SB202(C)2	8/22/2002	2	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-202(C)	SB202(C)3	8/22/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-202(C)	SB202(C)7	8/22/2002	7	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-203(C)	SB203(C)3	8/22/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-203(C)	SB203(C)7	8/22/2002	7	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-204(C)	SB204(C)3	8/22/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-204(C)	SB204(C)8	8/22/2002	8	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-205(C)	SB205(C)-4.5	8/27/2002	4.5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-206(C)	SB206(C)-6	8/27/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-207(C)	SB207(C)-4.5	8/27/2002	4.5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-208(C)	SB208(C)-3.5	8/27/2002	3.5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-209(C)	SB209(C)-3	8/27/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-210(C)	SB210(C)-3.5	8/27/2002	3.5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-211(C)	SB211(C)-3	8/27/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-212(C)	SB212(C)-2.5	8/27/2002	2.5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-213(C)	SB213(C)-4	8/27/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-214(C)	SB214(C)-5	8/27/2002	5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-215(C)	SB215(C)-5	8/27/2002	5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-216(C)	SB216(C)-3	8/27/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-217(C)	SB217(C)-3	8/28/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-218(C)	SB218(C)-2.5	8/28/2002	2.5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-219(C)	SB219(C)-4	8/28/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-220(C)	SB220 (C)-5	8/28/2002	5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-221(C)	SB221 (C)-4.5	8/28/2002	4.5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-222(C)	SB222 (C)-4.5	8/28/2002	4.5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-223(C)	SB223 (C)-6	8/29/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-224(C)	SB224 (C)-2	8/29/2002	2	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-225(C)	SB225 (C)-3	8/29/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-226(C)	SB226 (C)-3	8/29/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-227(C)	SB227 (C)-8	8/29/2002	8	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-228(C)	SB228 (C)-4	8/29/2002	4	0.67 U	0.67 U	1.34 U	0.67 U	0.67 U	1.69	0.67 U
SB-229(C)	SB229 (C)-8	8/29/2002	8	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U

TABLE D-9

PCBs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Aroclor 1258	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-230(C)	SB230 (C)-8	8/29/2002	8	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-231(C)	SB231 (C)-2	8/29/2002	2	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-232(C)	SB 232 (C)-8	8/30/2002	8	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-233(C)	SB 233 (C)-3	8/30/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-234(C)	SB 234 (C)-8	8/30/2002	8	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-235(C)	SB 235 (C)-6	8/30/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-236(C)	SB 236 (C)-6	8/30/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-237(C)	SB 237 (C)-6	8/30/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-238(C)	SB 238 (C)-3	8/30/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-239(C)	SB-239(C)-4	9/3/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-240(C)	SB-240(C)-6	9/3/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-241(C)	SB-241(C)-5	9/3/2002	5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-242(C)	SB-242(C)-4	9/3/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-243(C)	SB-243(C)-4	9/3/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-244(C)	SB-244(C)-3	9/3/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-245(C)	SB-245(C)-5	9/3/2002	5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-246(C)	SB-246(C)-5	9/3/2002	5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-247(C)	SB-247(C)-6	9/3/2002	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-250(C)	SB-250(C)-4	9/9/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-251(C)	SB-251(C)-4	9/9/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-252(C)	SB-252(C)-5	9/9/2002	5	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-256(C)	SB256 (c) 6	3/31/2004	6	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-618(N)	SB-618 (N)-7	9/12/2002	7	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-622(N)	SB-622 (N)-7	9/12/2002	7	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-624(N)	SB-624 (N)-7	9/12/2002	7	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-708(P)	SB-708(P)-3	8/20/2002	3	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-708(P)	SB-708(P)-10	8/20/2002	10	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-713(P)	SB-713(P)-2	8/21/2002	2	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-713(P)	SB-713(P)-10	8/21/2002	10	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-900(S)	SB-900(S)-4	8/26/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-900(S)	SB-900(S)-12	8/26/2002	12	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-902(S)	SB-902 (S)-12	8/26/2002	12	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-903(S)	SB-903 (S)-10	8/26/2002	10	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-904(S)	SB-904 (S)-12	8/26/2002	12	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-905(S)	SB-905 (S)-12	8/26/2002	12	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-906(S)	SB-906 (S)-4	8/27/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U

TABLE D-9

PCBs IN SOIL

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Aroclor 1258	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
			feet	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SB-906(S)	SB-906 (S)-12	8/27/2002	12	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-908(S)	SB-908 (S)-4	8/27/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-908(S)	SB-908 (S)-8	8/27/2002	8	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-908(S)	SB-908 (S)-10	8/27/2002	10	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-909(S)	SB-909 (S)-4	8/27/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
SB-910(S)	SB-910 (S)-4	8/27/2002	4	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
TP-201(C)	TP201(C)6E	8/27/2002	-	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U
TP-202(C)	TP202(C)6W	8/27/2002	-	0.067 U	0.067 U	0.134 U	0.067 U	0.067 U	0.067 U	0.067 U

TABLE D-10

PETROLEUM HYDROCARBONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	250 U	143		500 U
MW-1(F)	MW-1(F)	10/22/2003	250 U	94		500 U
MW-1(F)	MW-1 (F)	1/15/2004	171 J	408		500 U
MW-1(F)	MW-1(F)	4/15/2004	163 J	141 JB		500 U
MW-1(F)	MW-1 (F)	7/20/2004	250 U B	197		500 U
MW-2(M)	MW-2(M)	6/19/2003	2900	9440		500 U
MW-2(M)	MW-2 (M)	10/15/2003	3260	4510		1670
MW-2(M)	MW-2 (M)	1/12/2004	1340	628		500 U
MW-2(M)	MW-2(M)	4/14/2004	4170	6470		295 J
MW-2(M)	MW-2 (M)	7/22/2004	3580	5010		294 J
MW-6(M)	MW-6(M)	6/19/2003	250 U	457		500 U
MW-6(M)	MW-6(M)	10/22/2003	179 J	80 U		500 U
MW-6(M)	MW-6 (M)	1/12/2004	250 U	80 U		500 U
MW-6(M)	MW-6 (M)	4/13/2004	250 U	80 U B		500 U
MW-6(M)	MW-6 (M)	7/19/2004	250 U B	80 U		500 U
MW-7(M)	BM-7(M)	6/19/2003	250 U	80 U		500 U
MW-7(M)	MW-7(M)	6/19/2003	250 U	80 U		500 U
MW-7(M)	MW-7(M)	10/13/2003	307	80 U		500 U
MW-7(M)	MW-7 (M)	1/12/2004	756	80 U		500 U
MW-7(M)	MW-7 (M)	4/12/2004	401	14.9		500 U
MW-7(M)	MW-7 (M)	7/19/2004	610	80 U		196 J
MW-10(M)	MW-10(M)	6/19/2003	1430	2400		500 U
MW-10(M)	MW-10 (M)	10/15/2003	1790	3360		302 J
MW-10(M)	MW-10 (M)	1/13/2004	1590	2570		500 U
MW-10(M)	MW-10 (M)	4/13/2004	2670	2440		379 J
MW-10(M)	MW-10 (M)	7/19/2004	2260	2240		410 J
MW-11(M)	MW-11(M)	6/19/2003	250 U	179		500 U
MW-11(M)	MW-11 (M)	10/15/2003	250 U	652		500 U
MW-11(M)	MW-11 (M)	1/13/2004	500	219		500 U
MW-11(M)	MW-11 (M)	4/13/2004	222 J	106		500 U
MW-11(M)	MW-11 (M)	7/21/2004	250 U	80 U		500 U
MW-12(A)	MW-12(A)	10/22/2003	250 U	60.1 J		500 U
MW-12(A)	MW-12 (A)	1/15/2004	250 U	80 U		500 U
MW-12(A)	MW-12(A)	4/16/2004	250 U	80 U B		500 U
MW-12(A)	MW-12 (A)	7/22/2004	250 U	80 U		500 U
MW-13(A)	MW-13(A)	10/22/2003	250 U	10100		500 U
MW-13(A)	MW-13 (A)	1/15/2004	1310	15300		658
MW-13(A)	MW-13(A)	4/16/2004	1930	13400		500 U
MW-13(A)	MW-13 (A)	7/22/2004	1040	9140		500 U
MW-14(A)	MW-14(A)	10/21/2003	250 U	71.8 J		500 U
MW-14(A)	MW-14 (A)	1/15/2004	250 U	80 U		500 U
MW-14(A)	MW-14(A)	4/16/2004	250 U	80 U B		500 U
MW-14(A)	MW-14 (A)	7/23/2004	250 U	80 U		500 U
MW-15(A)	MW-15(A)	10/20/2003	250 U	2550		500 U
MW-16(A)	MW-16(A)	10/20/2003	250 U	457		425 J
MW-16(A)	MW-16(A)	1/19/2004	250 U	141		500 U
MW-16(A)	MW-16(A)	4/15/2004	859	315		500 U
MW-16(A)	MW-16 (A)	7/22/2004	551	458		500 U
MW-17(A)	MW-17 (A)	10/17/2003	250 U	740		500 U

TABLE D-10

PETROLEUM HYDROCARBONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
MW-17(A)	BM-17(A)	1/19/2004	250 U	1050		500 U
MW-17(A)	MW-17(A)	1/19/2004	250 U	778		500 U
MW-17(A)	MW-17(A)	4/15/2004	490	516		500 U
MW-17(A)	MW-17 (A)	7/22/2004	137 J	124		500 U
MW-17(A)	BM-17 (A)	7/22/2004	110 J			500 U
MW-17(A)	BM-17 (A)	7/22/2004		131		
MW-18(A)	MW-18(A)	10/21/2003	936	1280		2180
MW-18(A)	MW-18(A)	1/19/2004	807	830		500 U
MW-18(A)	MW-18(A)	4/15/2004	241 J	148 JB		500 U
MW-18(A)	MW-18 (A)	7/21/2004	229 J	266		500 U
MW-19(A)	BM-19(A)	10/20/2003	176 J	80 U		500 U
MW-19(A)	MW-19(A)	10/20/2003	180 J	80 U		500 U
MW-19(A)	MW-19 (A)	1/13/2004	250 U	80 U		500 U
MW-19(A)	MW-19(A)	4/15/2004	250 U	80 U B		500 U
MW-19(A)	BM-19 (A)	7/20/2004	250 U B	80 U		500 U
MW-19(A)	MW-19 (A)	7/20/2004	250 U B	80 U		500 U
MW-20(A)	MW-20(A)	10/20/2003	1370	1400		710
MW-20(A)	MW-20 (A)	1/13/2004	927	979		918
MW-20(A)	MW-20(A)	4/15/2004	918	263		640
MW-20(A)	MW-20 (A)	7/20/2004	1900	821		951
MW-21(A)	MW-21(A)	10/20/2003	1460	753		500 U
MW-21(A)	BM-21 (A)	1/13/2004	644	186		500 U
MW-21(A)	MW-21 (A)	1/13/2004	799	309		500 U
MW-21(A)	MW-21(A)	4/16/2004	4860	243		734
MW-21(A)	MW-21 (A)	7/20/2004	1670	847		500 U
MW-22(A)	MW-22 (A)	10/16/2003	250 U	140		500 U
MW-22(A)	MW-22(A)	1/19/2004	250 U	80 U		500 U
MW-22(A)	MW-22(A)	4/15/2004	250 U	80 U B		500 U
MW-22(A)	MW-22 (A)	7/20/2004	250 U B	80 U		500 U
MW-23(A)	MW-23(A)	10/20/2003	250 U	80 U		500 U
MW-23(A)	MW-23 (A)	1/15/2004	250 U	61.7 J		500 U
MW-23(A)	BM-23(A)	4/15/2004	250 U	198		500 U
MW-23(A)	MW-23(A)	4/15/2004	194 J	207		500 U
MW-23(A)	MW-23 (A)	7/20/2004	250 U B	80 U		500 U
MW-24(A)	MW-24(A)	10/21/2003	250 U	376		500 U
MW-24(A)	MW-24 (A)	1/15/2004	250 U	4050		500 U
MW-24(A)	MW-24(A)	4/14/2004	735	813		500 U
MW-24(A)	MW-24 (A)	7/22/2004	359	915		500 U
MW-26(A)	MW-26 (A)	10/17/2003	250 U	8050		500 U
MW-26(A)	MW-26 (A)	1/15/2004	250 U	24800		500 U
MW-26(A)	MW-26(A)	4/14/2004	3460	18500		500 U
MW-26(A)	MW-26 (A)	7/22/2004	3960	26000		500 U
MW-27(A)	MW-27(A)	10/21/2003	250 U	99		500 U
MW-27(A)	MW-27 (A)	1/14/2004	250 U	173		500 U
MW-27(A)	MW-27 (A)	4/14/2004	250 U	80 U B		500 U
MW-27(A)	MW-27 (A)	7/22/2004	250 U	80 U		500 U
MW-28(A)	MW-28 (A)	10/17/2003	2130	2060		500 U
MW-28(A)	MW-28(A)	1/19/2004	250 U	13800		500 U
MW-28(A)	MW-28(A)	4/14/2004	851	8910		500 U
MW-28(A)	MW-28 (A)	7/23/2004	1390	2240		678

TABLE D-10

PETROLEUM HYDROCARBONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
MW-29(A)	MW-29(A)	10/21/2003	4120	60200		500 U
MW-29(A)	MW-29(A)	1/19/2004	250 U	62000		310 J
MW-29(A)	MW-29(A)	4/16/2004	3660	34200		500 U
MW-29(A)	MW-29 (A)	7/22/2004	3170	39800		500 U
MW-30(A)	MW-30 (A)	10/16/2003	250 U	14700		500 U
MW-30(A)	MW-30 (A)	1/16/2004	250 U	9570		500 U
MW-30(A)	MW-30 (A)	4/13/2004	250 U	8090		500 U
MW-30(A)	MW-30 (A)	7/20/2004	3730	12600		500 U
MW-31(A)	BM-31 (A)	10/16/2003	250 U	7390		500 U
MW-31(A)	MW-31 (A)	10/16/2003	250 U	7200		500 U
MW-31(A)	MW-31 (A)	1/12/2004	1100	5220		500 U
MW-31(A)	BM-31 (A)	4/13/2004	1370	4770		500 U
MW-31(A)	MW-31 (A)	4/13/2004	1420	3230		500 U
MW-31(A)	MW-31 (A)	7/20/2004	2210	6140		500 U
MW-32(A)	MW-32(A)	10/14/2003	250 U	80 U		500 U
MW-32(A)	MW-32 (A)	1/12/2004	250 U	80 U		500 U
MW-32(A)	MW-32 (A)	4/13/2004	250 U	80 U		500 U
MW-32(A)	MW-32 (A)	7/19/2004	250 U	80 U		500 U
MW-33(A)	MW-33(A)	10/14/2003	250 U	70 J		500 U
MW-33(A)	MW-33 (A)	1/12/2004	250 U	276		500 U
MW-33(A)	MW-33 (A)	4/13/2004	250 U	434		500 U
MW-33(A)	MW-33 (A)	7/19/2004	511 JB	116		198 J
MW-34(A)	MW-34(A)	10/14/2003	250 U	80 U		500 U
MW-34(A)	MW-34 (A)	1/13/2004	250 U	80 U		500 U
MW-34(A)	MW-34 (A)	4/14/2004	250 U	80 U B		500 U
MW-34(A)	MW-34 (A)	7/20/2004	250 U	80 U		500 U
MW-35(A)	MW-35 (A)	10/16/2003	250 U	80 U		500 U
MW-35(A)	MW-35 (A)	1/16/2004	250 U	80 U		500 U
MW-35(A)	MW-35 (A)	4/13/2004	250 U	80 U B		500 U
MW-35(A)	MW-35 (A)	7/20/2004	250 U B	80 U		500 U
MW-36(A)	MW-36(A)	10/21/2003	250 U	80 U		500 U
MW-36(A)	MW-36 (A)	1/14/2004	250 U	80 U		500 U
MW-36(A)	MW-36 (A)	4/14/2004	250 U	80 U B		500 U
MW-36(A)	MW-36 (A)	7/22/2004	250 U	80 U		500 U
MW-37(A)	MW-37 (A)	10/17/2003	174 J	1350		500 U
MW-38(A)	MW-38(A)	10/21/2003	250 U	80 U		500 U
MW-38(A)	MW-38 (A)	1/14/2004	250 U	80 U		500 U
MW-38(A)	MW-38 (A)	4/14/2004	250 U	80 U B		500 U
MW-38(A)	MW-38 (A)	7/22/2004	250 U	80 U		500 U
MW-39(A)	MW-39 (A)	10/16/2003	1250	518		500 U
MW-39(A)	MW-39 (A)	1/16/2004	806	291		500 U
MW-39(A)	MW-39 (A)	4/14/2004	1170	381		500 U
MW-39(A)	MW-39 (A)	7/21/2004	883	421		500 U
MW-40(A)	MW-40 (A)	10/17/2003	3660	8270		500 U
MW-40(A)	MW-40(A)	1/20/2004	9380	31400		598
MW-40(A)	MW-40(A)	4/16/2004	8360	41600		689
MW-41(A)	MW-41(A)	10/14/2003	4700	7700		319 J

TABLE D-10

PETROLEUM HYDROCARBONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
MW-42(A)	MW-42 (A)	10/15/2003	5740	18900		2500 U
MW-43(A)	MW-43(A)	10/13/2003	1000	80 U		500 U
MW-43(A)	MW-43 (A)	1/12/2004	633	80 U		500 U
MW-43(A)	MW-43 (A)	4/13/2004	1050	80 U B		500 U
MW-43(A)	MW-43 (A)	7/21/2004	1980	80 U		191 J
MW-44(A)	MW-44 (A)	10/17/2003	5780	67700		500 U
MW-45(A)	MW-45 (A)	10/16/2003	250 U	80 U		500 U
MW-45(A)	MW-45 (A)	1/16/2004	250 U	80 U		500 U
MW-45(A)	MW-45 (A)	4/14/2004	250 U	80 U B		500 U
MW-45(A)	MW-45 (A)	7/21/2004	250 U	80 U		500 U
MW-46(A)	MW-46(A)	10/14/2003	250 U	80 U		500 U
MW-46(A)	MW-46(A)	1/14/2004	250 U	80 U		500 U
MW-46(A)	MW-46 (A)	4/12/2004	179 J	28.3		500 U
MW-46(A)	MW-46 (A)	7/21/2004	250 U B	80 U		500 U
MW-47(A)	MW-47(A)	10/13/2003	250 U	80 U		500 U
MW-47(A)	MW-47 (A)	1/14/2004	250 U	54.3		500 U
MW-47(A)	MW-47 (A)	4/12/2004	207 J	6.85		500 U
MW-47(A)	MW-47 (A)	7/21/2004	250 U B	80 U		500 U
MW-48(A)	MW-48(A)	10/14/2003	250 U	80 U		500 U
MW-48(A)	MW-48 (A)	1/14/2004	250 U	80 U		500 U
MW-48(A)	MW-48 (A)	4/12/2004	250 U	22.7		500 U
MW-48(A)	MW-48 (A)	7/21/2004	250 U B	80 U		500 U
R-1(M)	R-1(M)	10/22/2003	250 U	80 U		500 U
TW-100(C)	SB100(C)W	8/22/2002	250 U	80 U		500 U
TW-103(C)	SB103(C)W	8/22/2002	250 U	80 U		500 U
TW-104(C)	SB104(C)W	8/22/2002	250 U	80 U		500 U
TW-200(C)	SB200(C)W	8/22/2002	250 U	80 U		500 U
TW-201(C)	SB201(C)W	8/22/2002	250 U	80 U		500 U
TW-202(C)	SB202(C)W	8/22/2002	250 U	80 U		500 U
TW-203(C)	SB203(C)W	8/22/2002	471	158		500 U
TW-204(C)	SB204(C)W	8/22/2002	250 U	80 U		500 U
TW-204(C)	SB204(C)W2	8/22/2002	250 U	80 U		500 U
TW-400(F)	TW-400(F)	8/22/2002	250 U	80 U		500 U
TW-401(F)	TW-401(F)	8/23/2002	250 U	80 U		500 U
TW-402(F)	TW-402(F)	8/23/2002	250 U	80 U		500 U
TW-405(F)	TW-405(F)	8/22/2002	250 U	675		500 U
TW-406(F)	TW-406(F)	8/22/2002	250 U	5380		500 U
TW-407(F)	TW-407(F)	8/22/2002	250 U	1660		500 U
TW-408(F)	TW-408(F)	8/22/2002	367	182		500 U
TW-409(F)	TW-409(F)	8/22/2002	250 U	80 U		500 U
TW-600(N)	TW-600(N)	9/13/2002	Not Present	Present		Not Present
TW-601(N)	TW-601(N)	9/13/2002	Not Present	Present		Not Present
TW-602(N)	BT-602(N)	9/13/2002	Not Present	Not Present		Not Present
TW-602(N)	TW-602(N)	9/13/2002	Not Present	Not Present		Not Present
TW-603(N)	TW-603(N)	9/13/2002	Not Present	Not Present		Not Present
TW-608(N)	TW-608 (N)	9/13/2002	Not Present	Not Present		Not Present
TW-612(N)	TW-612(N)	9/12/2002	4700	9340		500 U
TW-616(N)	TW-616(N)	9/12/2002	250 U	80 U		500 U

TABLE D-10

PETROLEUM HYDROCARBONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Diesel Range Organics	Gasoline Range Organics	Lubeoil	Residual Range Organics
			ug/L	ug/L	ug/L	ug/L
TW-619(N)	TW-619(N)	9/12/2002	250 U	1560		500 U
TW-623(N)	TW-623(N)	9/12/2002	250 U	2280		500 U
TW-624(N)	TW-624(N)	9/12/2002	Not Present	Not Present		Not Present
TW-625(N)	BT-625(N)	9/12/2002	250 U	80 U		500 U
TW-625(N)	TW-625(N)	9/12/2002	250 U	80 U		500 U
TW-800(Q)	TW-800(Q)-10.5	8/27/2002	250 U	80 U		500 U
TW-801(Q)	TW801(Q)-10	8/26/2002	250 U	80 U		500 U
TW-803(Q)	TW-803(Q)-9	8/26/2002	250 U	80 U		500 U
TW-805(Q)	TW-805(Q)-10	8/26/2002	250 U	119		500 U
TW-806(Q)	TW-806 (Q)-11	8/28/2002	250 U	401	500 U	
TW-810(Q)	TW-810 (Q)-8	8/28/2002	303	80 U	500 U	
TW-814(Q)	TW814(Q)9	8/27/2002	286 U	80 U		571 U
TW-816(Q)	TW-816(Q)-12	8/27/2002	250 U	80 U		500 U
TW-818(Q)	TW-818 (Q)-11	8/28/2002	250 U	80 U	500 U	
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002	309	410	500 U	
TW-819(Q)	TW-819 (Q)-9.5C	8/28/2002	340	718	500 U	
TW-820(Q)	TW-820 (Q)-10	8/29/2002	250 U	439	500 U	
TW-822(Q)	TW-822 (Q)-9	8/29/2002	335	2740 J	500 U	
TW-824(Q)	TW-824(Q)-9	8/28/2002	250 U	80 U		500 U
TW-825(Q)	TW-825(Q)-8.5	8/27/2002	294 U	80 U		588 U
TW-826(Q)	TW-826(Q)-9	8/27/2002	312 U	80 U		625 U
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002	250 U	80 U	500 U	
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002	429	80 U	500 U	
TW-833(Q)	TW-833 (Q)-10.5	8/28/2002	480	80 U	500 U	
TW-833(Q)	TW-833 (Q)-11C	8/28/2002	250 U		500 U	
TW-900(S)	SB-900(TW)	8/26/2002	250 U			500 U
TW-903(S)	SB-903(TW)	8/26/2002	6660			1000 U
TW-904(S)	SB-904(TW)	8/26/2002	758			500 U
TW-905(S)	SB-905(TW)	8/26/2002	1440			500 U
TW-906(S)	SB-906(TW)	8/27/2002	2630			500 U
TW-908(S)	SB-908(TW)	8/27/2002	688			624
TW-909(S)	SB-909(TW)	8/27/2002	250 U			500 U
TW-910(S)	SB-910(TW)	8/26/2002	3520			500 U
TW-911(S)	SB-911(TW)	8/27/2002	9040			500 U

TABLE D-11

RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-1(F)	MW-1-082302	8/23/2002					0.5 U	0.5 U			
MW-1(F)	MW-1(F)	10/22/2003	1.64	0.5 U	0.5 U	0.42 J	0.41 J	3.65	0.17 J	2 U	0.26 J
MW-1(F)	MW-1 (F)	1/15/2004	0.09 J	0.5 U	0.5 U	0.5 U	2.79	1.99	2.1	2 U	1.13
MW-1(F)	MW-1(F)	4/15/2004	0.36 J	0.5 U	0.5 U	0.5 U	0.2 U	0.66	0.19 J	2 U	0.26 J
MW-1(F)	MW-1 (F)	7/20/2004	0.37 J	0.5 U	0.5 U	0.5 U	0.23	2.48	0.18 J	2 U	0.4 J
MW-2(M)	MW-2(M)	6/19/2003	100	2.5 U	2.5 U	14.6	48.4	756	70.2	10 U	270
MW-2(M)	MW-2 (M)	10/15/2003	2.23	0.5 U	0.5 U	0.5 U	125	92.6	42.9	2 U	159
MW-2(M)	MW-2 (M)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	10.6	2.52	10.2	2 U	47.8
MW-2(M)	MW-2(M)	4/14/2004	87.6	2.5 U	2.5 U	3.55	28.8	625	54.7	10 U	212
MW-2(M)	MW-2 (M)	7/22/2004	16.3	2.5 U	2.5 U	2.7	15.5	196	50.6	10 U	206
MW-6(M)	MW-6(M)	6/19/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-6(M)	MW-6(M)	10/22/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.41 J	2 U	2 U	0.5 U
MW-6(M)	MW-6 (M)	1/12/2004	0.92	0.5 U	0.5 U	0.2	0.5 U	0.5 U	0.27	2 U	0.49
MW-6(M)	MW-6 (M)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-6(M)	MW-6 (M)	7/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-7(M)	BM-7(M)	6/19/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-7(M)	MW-7(M)	6/19/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-7(M)	MW-7(M)	10/13/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-7(M)	MW-7 (M)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-7(M)	MW-7 (M)	4/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-7(M)	MW-7 (M)	7/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	0.12 J	2 U	0.17 J
MW-10(M)	MW-10(M)	6/19/2003	26.1	0.5 U	0.5 U	7.58	21	25	27.8	2 U	26.8
MW-10(M)	MW-10 (M)	10/15/2003	6.3	1 U	1 U	1.34	319	182	18.5	4 U	48.6
MW-10(M)	MW-10 (M)	1/13/2004	4.05	0.5 U	0.5 U	4.55	50.3	24.9	27.5	2 U	28.9
MW-10(M)	MW-10 (M)	4/13/2004	3.71	0.5 U	0.5 U	3.15	52.4	32.1	23.1	2 U	21.7
MW-10(M)	MW-10 (M)	7/19/2004	4.16	0.5 U	0.5 U	4.76	34.4	7.38	28.9	2 U	37.1
MW-11(M)	MW-11(M)	6/19/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-11(M)	MW-11 (M)	10/15/2003	1 U B	0.5 U	0.5 U	0.31 J	11.6	0.38 J	4.37	2 U	7.48
MW-11(M)	MW-11 (M)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	8.86	0.11	3.15	2 U	1.3
MW-11(M)	MW-11 (M)	4/13/2004	0.19 J	0.5 U	0.5 U	0.5 U	0.35	0.53	0.43 J	2 U	3.19
MW-11(M)	MW-11 (M)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.44	0.5 U	2 U	2 U	0.5 U
MW-12(A)	MW-12(A)	10/22/2003	0.15 J	0.5 U	0.5 U	0.5 U	0.19 J	1.35	2 U	2 U	0.5 U
MW-12(A)	MW-12 (A)	1/15/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-12(A)	MW-12(A)	4/16/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-12(A)	MW-12 (A)	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U

TABLE D-11

RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-13(A)	MW-13(A)	10/22/2003	17.4	2.5 U	2.5 U	42.8	259	915	94.7	10 U	228
MW-13(A)	MW-13 (A)	1/15/2004	393	10 U	6.8	10 U	750	2270	225	40 U	676
MW-13(A)	MW-13(A)	4/16/2004	31	10 U	10 U	41.8	564	2190	233	40 U	657
MW-13(A)	MW-13 (A)	7/22/2004	8.6 J	10 U	10 U	45.4	256	1290	137	40 U	355
MW-14(A)	MW-14(A)	10/21/2003	0.53 J	0.5 U	0.5 U	0.17 J	0.77	2.36	0.11 J	2 U	0.2 J
MW-14(A)	MW-14 (A)	1/15/2004	0.09 J	0.5 U	0.5 U	0.5 U	0.65	3.28	0.28 J	2 U	0.66
MW-14(A)	MW-14(A)	4/16/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-14(A)	MW-14 (A)	7/23/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-15(A)	MW-15(A)	10/20/2003	7.37	0.5 U	0.26 J	6.87	127	27	42.4	0.93 J	90.3
MW-16(A)	MW-16(A)	10/20/2003	2.09	0.5 U	0.5 U	0.93	11.4	1.86	7.81	2 U	12.3
MW-16(A)	MW-16(A)	1/19/2004	1 U	0.5 U	0.5 U	0.5 U	2.32	0.36 J	3.79	2 U	5.44
MW-16(A)	MW-16(A)	4/15/2004	1 U	0.5 U	0.5 U	0.5 U	11.7	1.1	28.8	0.38 J	29.9
MW-16(A)	MW-16 (A)	7/22/2004	0.48 J	0.5 U	0.5 U	0.5 U	7.26	1.39	13.3	2 U	25.1
MW-17 (A)	BM-17 (A)	7/22/2004	0.16 J	0.5 U	0.5 U	0.5 U	1.18	0.58	1.75 J	2 U	3.95
MW-17(A)	MW-17 (A)	10/17/2003	3.19	0.5 U	0.5 U	0.54	9.19	14.7	2.9	2 U	7.97
MW-17(A)	BM-17(A)	1/19/2004	0.62 J	0.5 U	0.5 U	2.21	2.5	50.3	6.44	2 U	16.4
MW-17(A)	MW-17(A)	1/19/2004	0.72 J	0.5 U	0.5 U	2.64	2.52	51.7	6.55	2 U	17.4
MW-17(A)	MW-17(A)	4/15/2004	0.44 J	0.5 U	0.5 U	1.73	2.69	29.3	7.78	2 U	23
MW-17(A)	MW-17 (A)	7/22/2004	0.44 J	0.5 U	0.5 U	0.5 U	1.22	0.86	1.85 J	2 U	4.37
MW-18(A)	MW-18(A)	10/21/2003	0.72 J	1 U	1 U	1.56	273	2.18	25.8	0.98 J	45
MW-18(A)	MW-18(A)	1/19/2004	0.29 J	0.5 U	0.5 U	1.15	138	5.45	13.8	2 U	26.9
MW-18(A)	MW-18(A)	4/15/2004	0.17 J	0.5 U	0.5 U	0.5 U	3.2	0.26 J	2.09	0.2 J	1.6
MW-18(A)	MW-18 (A)	7/21/2004	0.09 J	0.5 U	0.5 U	0.34 J	44.1	1.92	9.41	2 U	19
MW-19(A)	BM-19(A)	10/20/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.23 J	0.5 U
MW-19(A)	MW-19(A)	10/20/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.23 J	0.5 U
MW-19(A)	MW-19 (A)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-19(A)	MW-19(A)	4/15/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-19(A)	BM-19 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.46	2.13	0.11 J	0.11 J	0.21 J
MW-19(A)	MW-19 (A)	7/20/2004	0.13 J	0.5 U	0.5 U	0.5 U	0.31	1.58	2 U	2 U	0.2 J
MW-20(A)	MW-20(A)	10/20/2003	15.9	0.5 U	0.5 U	2.06	16.9	20.2	1.88 J	2 U	3.62
MW-20(A)	MW-20 (A)	1/13/2004	56.2	0.5 U	0.5 U	7.32	3.64	12.5	6.54	2 U	8.92
MW-20(A)	MW-20(A)	4/15/2004	5.97	0.5 U	0.5 U	0.59	1.77	0.11	1.16	2 U	2.02
MW-20(A)	MW-20 (A)	7/20/2004	19.6	0.5 U	0.5 U	1.89	2.98	14.8	4.03	2 U	3

TABLE D-11

RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21(A)	10/20/2003	0.2 J	0.5 U	0.5 U	0.24 J	0.5 U	3.1	2.5	2 U	7.31
MW-21(A)	BM-21 (A)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.25	1.2	2.36	2 U	6.9
MW-21(A)	MW-21 (A)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.31	1.45	2.53	2 U	7.59
MW-21(A)	MW-21(A)	4/16/2004	1.37	0.5 U	0.5 U	0.5 U	0.7	2.51	2.59	2 U	3.97
MW-21(A)	MW-21 (A)	7/20/2004	0.22 J	0.5 U	0.5 U	0.5 U	0.26	3.01	3.9	2 U	13.3
MW-22(A)	MW-22 (A)	10/16/2003	1 U B	0.5 U	0.5 U	0.5 U	19.4	52.9	2.78	2 U	7
MW-22(A)	MW-22(A)	1/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	2 U	2 U	0.5 U
MW-22(A)	MW-22(A)	4/15/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.19	2 U	2 U	0.5 U
MW-22(A)	MW-22 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.26	1.25	2 U	2 U	0.18 J
MW-23(A)	MW-23(A)	10/20/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.15 J
MW-23(A)	MW-23 (A)	1/15/2004	0.1	0.5 U	0.5 U	0.5 U	0.5 U	0.52	2 U	2 U	0.17
MW-23(A)	BM-23(A)	4/15/2004	1.89	0.5 U	0.5 U	0.57	2.75	12.1	2.64	2 U	5.04
MW-23(A)	MW-23(A)	4/15/2004	2.7	0.5 U	0.5 U	0.84	3.04	14.8	3.27	2 U	6.02
MW-23(A)	MW-23 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-24(A)	MW-24(A)	10/21/2003	2.05	0.5 U	0.5 U	1.35	0.62	7.69	0.94 J	2 U	2.01
MW-24(A)	MW-24 (A)	1/15/2004	232	5 U	5 U	33.9	2.7	60.1	4.8	20 U	9.7
MW-24(A)	MW-24(A)	4/14/2004	55	0.5 U	0.5 U	3.87	0.16	28.4	4.54	2 U	11.1
MW-24(A)	MW-24 (A)	7/22/2004	48.3	0.5 U	0.5 U	1.4	0.55	29.5	3.2	2 U	6.53
MW-26(A)	MW-26 (A)	10/17/2003	600	2.5 U	2.5 U	135	3.05	373	32	10 U	83.3
MW-26(A)	MW-26 (A)	1/15/2004	3120	10 U	10 U	682	3	1280	104	40 U	280
MW-26(A)	MW-26(A)	4/14/2004	2580	10 U	10 U	565	4 U	852	96	40 U	251
MW-26(A)	MW-26 (A)	7/22/2004	3300	10 U	10 U	665	4 U	886	102	40 U	278
MW-27(A)	MW-27(A)	10/21/2003	1 U	0.5 U	0.5 U	0.5 U	0.98	0.12 J	2 U	2 U	0.5 U
MW-27(A)	MW-27 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-27(A)	MW-27 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-27(A)	MW-27 (A)	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.37 J	2 U	2 U	0.5 U
MW-28(A)	MW-28 (A)	10/17/2003	566	5 U	5 U	138	208	334	24.4	20 U	85.6
MW-28(A)	MW-28(A)	1/19/2004	942	5 U	5 U	204	702	902	30.1	20 U	92.4
MW-28(A)	MW-28(A)	4/14/2004	250	5 U	5 U	51.2	179	247	16.2 J	20 U	37.4
MW-28(A)	MW-28 (A)	7/23/2004	130	2.5 U	2.5 U	28.4	72.2	141	6.55 J	10 U	18.2
MW-29(A)	MW-29(A)	10/21/2003	1980	25 U	25 U	446	482	2480	86 J	100 U	234
MW-29(A)	MW-29(A)	1/19/2004	2630	25 U	25 U	568	330	2640	82 J	100 U	241
MW-29(A)	MW-29(A)	4/16/2004	1770	25 U	25 U	396	148	1840	69.5 J	100 U	188
MW-29(A)	MW-29 (A)	7/22/2004	2260	25 U	25 U	521	380	1750	98.5 J	100 U	270

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-30(A)	MW-30 (A)	10/16/2003	20 U B	10 U	10 U	34.8	262	2080	88.8	40 U	238
MW-30(A)	MW-30 (A)	1/16/2004	33.6	10 U	10 U	14.2	341	1910	79	40 U	232
MW-30(A)	MW-30 (A)	4/13/2004	75.7	5 U	5 U	85.5	533	1850	70.2	20 U	170
MW-30(A)	MW-30 (A)	7/20/2004	3.4 J	10 U	10 U	60.6	407	2070	83.2	40 U	218
MW-31(A)	BM-31 (A)	10/16/2003	10 U B	5 U	5 U	3.9 J	1260	728	56.5	20 U	156
MW-31(A)	MW-31 (A)	10/16/2003	10 U B	5 U	5 U	3.9	1170	706	54.4	20 U	152
MW-31(A)	MW-31 (A)	1/12/2004	10 U	5 U	5 U	2.2	1390	798	44.2	20 U	121
MW-31(A)	BM-31 (A)	4/13/2004	0.9 J	2.5 U	2.5 U	2.7	538	432	33	10 U	73
MW-31(A)	MW-31 (A)	4/13/2004	0.85	2.5 U	2.5 U	2.65	574	533	35.2	10 U	80.2
MW-31(A)	MW-31 (A)	7/20/2004	1.1 J	5 U	5 U	4.8 J	1020	911	44.8	20 U	119
MW-32(A)	MW-32(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-32(A)	MW-32 (A)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-32(A)	MW-32 (A)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-32(A)	MW-32 (A)	7/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-33(A)	MW-33(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	3.49	0.5 U	0.35 J	2 U	0.63
MW-33(A)	MW-33 (A)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	15	0.55	3.71	2 U	8.13
MW-33(A)	MW-33 (A)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	12.1	1.82	4.07	2 U	8.46
MW-33(A)	MW-33 (A)	7/19/2004	1 U	0.5 U	0.5 U	0.5 U	3.47	0.5 U	0.89 J	2 U	1.61
MW-34(A)	MW-34(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.29 J	2 U	2 U	0.5 U
MW-34(A)	MW-34 (A)	1/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.25	2 U	2 U	0.5 U
MW-34(A)	MW-34 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.21	2 U	2 U	0.5 U
MW-34(A)	MW-34 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-35(A)	MW-35 (A)	10/16/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	1.12	2 U	2 U	0.17 J
MW-35(A)	MW-35 (A)	1/16/2004	0.13 J	0.5 U	0.5 U	0.5 U	0.5 U	0.42 J	2 U	2 U	0.18 J
MW-35(A)	MW-35 (A)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-35(A)	MW-35 (A)	7/20/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-36(A)	MW-36(A)	10/21/2003	0.15 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-36(A)	MW-36 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-36(A)	MW-36 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.92	2 U	2 U	0.5 U
MW-36(A)	MW-36 (A)	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.54	2 U	2 U	0.14 J
MW-37(A)	MW-37 (A)	10/17/2003	12.2	0.5 U	0.5 U	2.96	0.16 J	17	6.72	2 U	10.4
MW-38(A)	MW-38(A)	10/21/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-38(A)	MW-38 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.15
MW-38(A)	MW-38 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.73	0.2 J	2 U	0.51
MW-39(A)	MW-39 (A)	10/16/2003	19.7	0.5 U	0.5 U	3.02	3.98	10.9	3.42	2 U	5.33
MW-39(A)	MW-39 (A)	1/16/2004	14.4	0.5 U	0.5 U	2.7	3.37	10.8	3.34	2 U	4.57
MW-39(A)	MW-39 (A)	4/14/2004	6.04	0.5 U	0.5 U	1.12	3.4	9.92	3.36	2 U	6.58
MW-39(A)	MW-39 (A)	7/21/2004	7.49	0.5 U	0.5 U	1.9	1.7	6.32	2.77	2 U	4.4
MW-39(A)	Trip Blank	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-39(A)	Trip Blank	7/22/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-40(A)	MW-40 (A)	10/17/2003	40.6	2.5 U	2.5 U	8.7	81.2	650	44.8	10 U	86.4
MW-40(A)	MW-40(A)	1/20/2004	3170	10 U	10 U	527	7.8 J	2230	98	40 U	334
MW-40(A)	MW-40(A)	4/16/2004	3170	25 U	25 U	620	83.5	2510	98.5 J	100 U	325
MW-41(A)	MW-41(A)	10/14/2003	15.4	5 U	5 U	5 U	355	1260	38.1	20 U	88.9
MW-42(A)	MW-42 (A)	10/15/2003	44.8	10 U	10 U	11.2	3020	1850	63.4	40 U	226
MW-43(A)	MW-43(A)	10/13/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-43(A)	MW-43 (A)	1/12/2004	1 U	0.5 U	0.5 U	0.5 U	10.9	3.56	2 U	2 U	0.5 U
MW-43(A)	MW-43 (A)	4/13/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.48 J	2 U	2 U	3.76
MW-43(A)	MW-43 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-44(A)	MW-44 (A)	10/17/2003	3470	25 U	25 U	898	898	2890	94 J	100 U	388
MW-45(A)	MW-45 (A)	10/16/2003	1 U B	0.5 U	0.5 U	0.5 U	0.16 J	0.32 J	2 U	2 U	0.21 J
MW-45(A)	MW-45 (A)	1/16/2004	0.11 J	0.5 U	0.5 U	0.5 U	0.5 U	0.23 J	2 U	2 U	0.5 U
MW-45(A)	MW-45 (A)	4/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.11 J	2 U	2 U	0.5 U
MW-45(A)	MW-45 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.11 J	2 U	2 U	0.5 U
MW-46(A)	MW-46(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-46(A)	MW-46(A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-46(A)	MW-46 (A)	4/12/2004	0.32 J	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-46(A)	MW-46 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-47(A)	MW-47(A)	10/13/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-47(A)	MW-47 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.21	0.13	2 U	2 U	0.5 U
MW-47(A)	MW-47 (A)	4/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-47(A)	MW-47 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
MW-48(A)	MW-48(A)	10/14/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-48(A)	MW-48 (A)	1/14/2004	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
MW-48(A)	MW-48 (A)	4/12/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U

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Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-48(A)	MW-48 (A)	7/21/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
R-1(M)	R-1(M)	10/22/2003	1 U B	0.5 U	0.5 U	0.5 U	0.23 J	0.63	2 U	2 U	0.5 U
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-103(C)	SB103(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-104(C)	SB104(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-203(C)	SB203(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.4 J	0.4 U	0.88
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-304(D)	SB-304-D-9.0	8/19/2002					174	39.1			
TW-304(D)	SB-304-D-9.0 DU	8/19/2002					151	30.8			
TW-305(D)	SB-305-D-9.0	8/19/2002	3040	10 U	10 U	958	489	1760	128	40 U	416
TW-306(D)	SB-306-D-9.0	8/19/2002					372	222			
TW-307(D)	SB-307-D-9.0	8/19/2002					934	47.1			
TW-309(D)	SB-309-D-9.0	8/19/2002	0.34 J	0.5 U	0.5 U	0.58	19.2	0.93	3.75	2 U	5.72
TW-311(D)	SB-311-D-10.0	8/19/2002					24.2	4.13			
TW-312(D)	SB-312-D-10.0	8/19/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.17 J	2 U	0.32 J
TW-313(D)	TW-313-D-22.0	8/20/2002					255	1280			
TW-314(D)	TW-314-D-22.0	8/20/2002					68.3	90.9			
TW-318(D)	TW-318-D-22.0	8/20/2002	0.66 J	0.5 U	0.5 U	0.5 U	0.71	0.95	2 U	2 U	0.14 J
TW-319(D)	SB-319-D-14.0	8/19/2002					0.5 U	0.337 U			
TW-400(F)	TW-400(F)	8/22/2002					0.5 U	0.5 U			
TW-401(F)	TW-401(F)	8/23/2002					0.5 U	0.5 U			
TW-402(F)	TW-402(F)	8/23/2002					0.5 U	0.5 U			
TW-405(F)	TW-405(F)	8/22/2002					4.23	22.2			
TW-406(F)	TW-406(F)	8/22/2002					14.2	249			
TW-407(F)	TW-407(F)	8/22/2002					11.6	9.05			
TW-408(F)	TW-408(F)	8/22/2002					0.853	3.98			
TW-409(F)	TW-409(F)	8/22/2002					0.5 U	0.5 U			
TW-600(N)	TW-600(N)	9/13/2002	7.35	2.5 U	2.5 U	2.5 U	2.5 U	799	34	10 U	89.2
TW-601(N)	TW-601(N)	9/13/2002	192	1 U	1 U	1 U	1 U	119	29.1	4 U	49.3
TW-602(N)	BT-602(N)	9/13/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
TW-602(N)	TW-602(N)	9/13/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
TW-603(N)	TW-603(N)	9/13/2002	1.72	0.5 U	0.5 U	0.5 U	0.5 U	1.13	2 U	2 U	1.19

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			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
TW-612(N)	TW-612(N)	9/12/2002	50 U	25 U	25 U	25 U	2610	312	100 U	100 U	98
TW-612(N)	TW-612(N)	9/12/2002					3060	533			
TW-616(N)	TW-616(N)	9/12/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
TW-616(N)	TW-616(N)	9/12/2002					0.5 U	0.5 U			
TW-619(N)	TW-619(N)	9/12/2002	9.5	2.5 U	2.5 U	2.5 U	3.4	80.6	12	10 U	17.6
TW-619(N)	TW-619(N)	9/12/2002					8.18	99.5			
TW-623(N)	TW-623(N)	9/12/2002	22.2	0.5 U	0.5 U	20.8	0.5 U	16.1	9.57	2 U	23.2
TW-623(N)	TW-623(N)	9/12/2002					6.04	25.4			
TW-624(N)	TW-624(N)	9/12/2002	31.5	0.4 U	0.4 U	50.5	0.4 U	34.8	24.3	0.4 U	60.7
TW-625(N)	BT-625(N)	9/12/2002					0.5 U	0.5 U			
TW-625(N)	TW-625(N)	9/12/2002					0.5 U	0.5 U			
TW-700(P)	TW-700(P)	8/21/2002	803	2 U	2 U	272	2 U	358	70.8	2 U	131
TW-701(P)	TW-701(P)	8/20/2002	204	4 U	4 U	5 U	40.3	933	41.2	4 U	81.9
TW-702(P)	TW-702(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-703(P)	TW-703(P)	8/21/2002	53.8	0.8 U	0.8 U	33.5	3.3	172	42.3	0.8 U	58
TW-704(P)	TW-704(P)	8/21/2002	1.22	0.4 U	0.4 U	6.07	0.16 J	1.46	17.8	0.4 U	23.8
TW-706(P)	TW-706(P)	8/21/2002	113	2 U	2 U	40.8	106	195	14.2	2 U	26.6
TW-707(P)	TW-707(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	1.41	2.87	0.5 U	0.4 U	0.5 U
TW-708(P)	BT-708(P)	8/20/2002	10 U	5 U	5 U	5 U	1230	154	32.5	20 U	88.5
TW-708(P)	TW-708(P)	8/20/2002	10 U	5 U	5 U	5 U	976	80.9	27.8	20 U	73.2
TW-709(P)	TW-709(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-710(P)	TW-710(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-711(P)	BT-711(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-711(P)	TW-711(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-712(P)	TW-712(P)	8/21/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-714(P)	TW-714(P)	8/21/2002	914	10 U	10 U	115	83.8	2110	73.2	40 U	277
TW-716(P)	TW-716(P)	8/20/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-717(P)	TW-717(P)	8/20/2002	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.4 U	0.5 U	0.4 U	0.14 J
TW-718(P)	TW-718(P)	8/21/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
TW-719(P)	BT-719(P)	8/23/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	2 U	0.41 J
TW-719(P)	TW-719(P)	8/23/2002	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.35 J
TW-720(P)	TW-720(P)	8/23/2002	1810	10 U	10 U	119	28	1530	56.2	40 U	188
TW-800(Q)	TW-800(Q)-10.5	8/27/2002					0.5 U	0.5 U			
TW-801(Q)	TW801(Q)-10	8/26/2002					0.5 U	0.5 U			
TW-803(Q)	TW-803(Q)-9	8/26/2002					0.5 U	0.5 U			
TW-805(Q)	TW-805(Q)-10	8/26/2002					1.98	2.26			
TW-806(Q)	TW-806 (Q)-11	8/28/2002					20.3	0.5 U			
TW-810(Q)	TW-810 (Q)-8	8/28/2002					0.5 U	0.5 U			
TW-814(Q)	TW814(Q)9	8/27/2002					0.5 U	0.5 U			

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Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-816(Q)	TW-816(Q)-12	8/27/2002					0.5 U	0.5 U			
TW-818(Q)	TW-818 (Q)-11	8/28/2002					0.5 U	0.5 U			
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002					8	7.78			
TW-819(Q)	TW-819 (Q)-9.5(	8/28/2002					13.7	11			
TW-820(Q)	TW-820 (Q)-10	8/29/2002					11	30.2			
TW-822(Q)	TW-822 (Q)-9	8/29/2002					31.3 J	111 J			
TW-824(Q)	TW-824(Q)-9	8/28/2002					2.4	0.5 U			
TW-825(Q)	TW-825(Q)-8.5	8/27/2002					0.5 U	0.5 U			
TW-826(Q)	TW-826(Q)-9	8/27/2002					0.5 U	0.5 U			
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002					0.506	0.5 U			
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002					0.5 U	0.5 U			
TW-833(Q)	TW-833 (Q)-10.5	8/28/2002					0.5 U	0.5 U			
TW-900(S)	SB-900(TW)	8/26/2002					2.72	0.977			
TW-901(S)	SB-901(TW)	8/26/2002	468	2.5 U	2.5 U	147	5.92	7.82	16.3	10 U	32.4
TW-901(S)	SB-901(TW)	8/26/2002					2.5 U	7			
TW-902(S)	SB-902(TW)	8/26/2002					0.5 U	1.51			
TW-903(S)	SB-903(TW)	8/26/2002	79.8	0.5 U	0.5 U	17.4	0.5 U	12.8	4.76	2 U	7.85
TW-903(S)	SB-903(TW)	8/26/2002					0.5 U	14			
TW-904(S)	SB-904(TW)	8/26/2002	1.6	0.5 U	0.5 U	0.35 J	0.5 U	0.5 U	0.17 J	2 U	0.27 J
TW-904(S)	SB-904(TW)	8/26/2002					0.5 U	0.26 J			
TW-905(S)	SB-905(TW)	8/26/2002	35.6 J	0.5 U	0.5 U	7.17 J	0.5 U	18.9 J	1.83 J	2 U	1.86 J
TW-905(S)	SB-905(TW)	8/26/2002					2.5 U	46.4			
TW-906(S)	SB-906(TW)	8/27/2002	15.6	0.5 U	0.5 U	3.89	0.5 U	0.15 J	1.16 J	2 U	2.04
TW-906(S)	SB-906(TW)	8/27/2002					0.5 U	0.5 U			
TW-908(S)	SB-908(TW)	8/27/2002	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	0.14 J	0.5 U
TW-908(S)	SB-908(TW)	8/27/2002					0.5 U	0.5 U			
TW-909(S)	SB-909(TW)	8/27/2002					0.5 U	0.5 U			
TW-910(S)	SB-910(TW)	8/26/2002					0.5 U	0.803			
TW-911(S)	SB-911(TW)	8/27/2002	0.27 J	0.5 U	0.5 U	0.5 U	0.718	13	1.1 J	2 U	0.8
TW-911(S)	SB-911(TW)	8/27/2002					0.34 J	5.41			

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Locator ID	Sample ID	Sample Date	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002		0.5 U		1 U
MW-1(F)	MW-1-082302	8/23/2002		0.5 U		1 U
MW-1(F)	MW-1(F)	10/22/2003		7.08		16.3
MW-1(F)	MW-1 (F)	1/15/2004		0.5 U		1 U
MW-1(F)	MW-1(F)	4/15/2004		0.5 U		0.92 J
MW-1(F)	MW-1 (F)	7/20/2004		0.32 J		2
MW-2(M)	MW-2(M)	6/19/2003		15.5		369
MW-2(M)	MW-2 (M)	10/15/2003		8.5		21.3
MW-2(M)	MW-2 (M)	1/12/2004		0.51 J+,B		0.86
MW-2(M)	MW-2(M)	4/14/2004		13.4		342
MW-2(M)	MW-2 (M)	7/22/2004		7.35		29.4
MW-6(M)	MW-6(M)	6/19/2003		0.5 U		1 U
MW-6(M)	MW-6(M)	10/22/2003		0.5 U B		1 U
MW-6(M)	MW-6 (M)	1/12/2004		0.5 U		1 U
MW-6(M)	MW-6 (M)	4/13/2004		0.5 U		1 U
MW-6(M)	MW-6 (M)	7/19/2004		0.5 U		1 U
MW-7(M)	BM-7(M)	6/19/2003		0.5 U		1 U
MW-7(M)	MW-7(M)	6/19/2003		0.5 U		1 U
MW-7(M)	MW-7(M)	10/13/2003		0.5 U		1 U
MW-7(M)	MW-7 (M)	1/12/2004		0.5 U		1 U
MW-7(M)	MW-7 (M)	4/12/2004		0.5 U		1 U
MW-7(M)	MW-7 (M)	7/19/2004		0.5 U		1 U
MW-10(M)	MW-10(M)	6/19/2003		5.55		49
MW-10(M)	MW-10 (M)	10/15/2003		19.3		49.6
MW-10(M)	MW-10 (M)	1/13/2004		15.3		46.9
MW-10(M)	MW-10 (M)	4/13/2004		10.5		55
MW-10(M)	MW-10 (M)	7/19/2004		6.09		31.2
MW-11(M)	MW-11(M)	6/19/2003		0.5 U		1 U
MW-11(M)	MW-11 (M)	10/15/2003		0.96 JB		8.39
MW-11(M)	MW-11 (M)	1/13/2004		0.5 U B		1 U
MW-11(M)	MW-11 (M)	4/13/2004		0.5 U B		1 U
MW-11(M)	MW-11 (M)	7/21/2004		0.5 U		1 U
MW-12(A)	MW-12(A)	10/22/2003		2.77		3.77
MW-12(A)	MW-12 (A)	1/15/2004		0.5 U		1 U
MW-12(A)	MW-12(A)	4/16/2004		0.5 U		1 U
MW-12(A)	MW-12 (A)	7/22/2004		0.5 U		1 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-13(A)	MW-13(A)	10/22/2003		26.6		94.6
MW-13(A)	MW-13 (A)	1/15/2004		82.4		578
MW-13(A)	MW-13(A)	4/16/2004		58		110
MW-13(A)	MW-13 (A)	7/22/2004		30		50.4
MW-14(A)	MW-14(A)	10/21/2003		5.91		6.82
MW-14(A)	MW-14 (A)	1/15/2004		0.5 U		0.47 J
MW-14(A)	MW-14(A)	4/16/2004		0.5 U		1 U
MW-14(A)	MW-14 (A)	7/23/2004		0.5 U		1 U
MW-15(A)	MW-15(A)	10/20/2003		13.5		40.7
MW-16(A)	MW-16(A)	10/20/2003		1.43 J,B		9.74
MW-16(A)	MW-16(A)	1/19/2004		0.5 U B		1 U
MW-16(A)	MW-16(A)	4/15/2004		0.71 JB		0.34 J
MW-16(A)	MW-16 (A)	7/22/2004		2.15		2.83
MW-17 (A)	BM-17 (A)	7/22/2004		1.09		1.12
MW-17(A)	MW-17 (A)	10/17/2003		25.5		35.3
MW-17(A)	BM-17(A)	1/19/2004		1.04 JB		18.9
MW-17(A)	MW-17(A)	1/19/2004		1.05 JB		20.1
MW-17(A)	MW-17(A)	4/15/2004		0.67 JB		8.65
MW-17(A)	MW-17 (A)	7/22/2004		1.46		1.83
MW-18(A)	MW-18(A)	10/21/2003		21.1		22.4
MW-18(A)	MW-18(A)	1/19/2004		13.9		18.9
MW-18(A)	MW-18(A)	4/15/2004		0.68 JB		0.82 J
MW-18(A)	MW-18 (A)	7/21/2004		3.18		1.68
MW-19(A)	BM-19(A)	10/20/2003		0.5 U		1 U
MW-19(A)	MW-19(A)	10/20/2003		0.5 U		1 U
MW-19(A)	MW-19 (A)	1/13/2004		0.5 U		1 U
MW-19(A)	MW-19(A)	4/15/2004		0.5 U		1 U
MW-19(A)	BM-19 (A)	7/20/2004		0.25 J		0.73 J
MW-19(A)	MW-19 (A)	7/20/2004		0.19 J		0.61 J
MW-20(A)	MW-20(A)	10/20/2003		1.29 J,B		121
MW-20(A)	MW-20 (A)	1/13/2004		0.88 J+,B		46.2
MW-20(A)	MW-20(A)	4/15/2004		0.5 U B		1.08
MW-20(A)	MW-20 (A)	7/20/2004		1.18		63.3

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21(A)	10/20/2003		0.5 U		1.73
MW-21(A)	BM-21 (A)	1/13/2004		0.5 U B		0.45
MW-21(A)	MW-21 (A)	1/13/2004		0.5 U B		0.46
MW-21(A)	MW-21(A)	4/16/2004		0.52 JB		5.41
MW-21(A)	MW-21 (A)	7/20/2004		0.17 J		0.88 J
MW-22(A)	MW-22 (A)	10/16/2003		2.96		7.82
MW-22(A)	MW-22(A)	1/19/2004		0.5 U		1 U
MW-22(A)	MW-22(A)	4/15/2004		0.5 U		1 U
MW-22(A)	MW-22 (A)	7/20/2004		0.5 U		0.46 J
MW-23(A)	MW-23(A)	10/20/2003		0.5 U		1 U
MW-23(A)	MW-23 (A)	1/15/2004		0.5 U		0.38
MW-23(A)	BM-23(A)	4/15/2004		0.94 JB		10.9
MW-23(A)	MW-23(A)	4/15/2004		1.13 JB		14.5
MW-23(A)	MW-23 (A)	7/20/2004		0.5 U		1 U
MW-24(A)	MW-24(A)	10/21/2003		1.17 J,B		10.5
MW-24(A)	MW-24 (A)	1/15/2004		5 U		116
MW-24(A)	MW-24(A)	4/14/2004		0.5 U B		30.7
MW-24(A)	MW-24 (A)	7/22/2004		0.98		15.6
MW-26(A)	MW-26 (A)	10/17/2003		18.4		1040
MW-26(A)	MW-26 (A)	1/15/2004		24.2 JB		5500
MW-26(A)	MW-26(A)	4/14/2004		14.8 JB		3060
MW-26(A)	MW-26 (A)	7/22/2004		17.2		3430
MW-27(A)	MW-27(A)	10/21/2003		0.5 U		1 U
MW-27(A)	MW-27 (A)	1/14/2004		0.5 U		1 U
MW-27(A)	MW-27 (A)	4/14/2004		0.5 U		1 U
MW-27(A)	MW-27 (A)	7/22/2004		0.5 U		1 U
MW-28(A)	MW-28 (A)	10/17/2003		201		1070
MW-28(A)	MW-28(A)	1/19/2004		696		4000
MW-28(A)	MW-28(A)	4/14/2004		88.9		874
MW-28(A)	MW-28 (A)	7/23/2004		15.8		412
MW-29(A)	MW-29(A)	10/21/2003		5160		13300
MW-29(A)	MW-29(A)	1/19/2004		8170		13500
MW-29(A)	MW-29(A)	4/16/2004		3780		8920
MW-29(A)	MW-29 (A)	7/22/2004		5520		8130

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Locator ID	Sample ID	Sample Date	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-30(A)	MW-30 (A)	10/16/2003		110		663
MW-30(A)	MW-30 (A)	1/16/2004		127		378
MW-30(A)	MW-30 (A)	4/13/2004		243		2140
MW-30(A)	MW-30 (A)	7/20/2004		128		1330
MW-31(A)	BM-31 (A)	10/16/2003		41.6		143
MW-31(A)	MW-31 (A)	10/16/2003		38.4		138
MW-31(A)	MW-31 (A)	1/12/2004		109		189
MW-31(A)	BM-31 (A)	4/13/2004		29.2		121
MW-31(A)	MW-31 (A)	4/13/2004		35.9		127
MW-31(A)	MW-31 (A)	7/20/2004		67.9		356
MW-32(A)	MW-32(A)	10/14/2003		0.5 U		1 U
MW-32(A)	MW-32 (A)	1/12/2004		0.5 U		1 U
MW-32(A)	MW-32 (A)	4/13/2004		0.5 U		1 U
MW-32(A)	MW-32 (A)	7/19/2004		0.5 U		1 U
MW-33(A)	MW-33(A)	10/14/2003		0.5 U		0.28 J
MW-33(A)	MW-33 (A)	1/12/2004		2.16		4.16
MW-33(A)	MW-33 (A)	4/13/2004		0.83 JB		2.13
MW-33(A)	MW-33 (A)	7/19/2004		0.62		0.65 J
MW-34(A)	MW-34(A)	10/14/2003		0.5 U		1 U
MW-34(A)	MW-34 (A)	1/13/2004		0.5 U		1 U
MW-34(A)	MW-34 (A)	4/14/2004		0.5 U		1 U
MW-34(A)	MW-34 (A)	7/20/2004		0.5 U		1 U
MW-35(A)	MW-35 (A)	10/16/2003		0.5 U		1 U
MW-35(A)	MW-35 (A)	1/16/2004		0.5 U		1 U
MW-35(A)	MW-35 (A)	4/13/2004		0.5 U		1 U
MW-35(A)	MW-35 (A)	7/20/2004		0.5 U		1 U
MW-36(A)	MW-36(A)	10/21/2003		0.5 U		0.28 J
MW-36(A)	MW-36 (A)	1/14/2004		0.5 U		1 U
MW-36(A)	MW-36 (A)	4/14/2004		0.5 U B		1 U
MW-36(A)	MW-36 (A)	7/22/2004		0.5 U		1 U
MW-37(A)	MW-37 (A)	10/17/2003		0.72 J		30.6
MW-38(A)	MW-38(A)	10/21/2003		0.5 U		1 U
MW-38(A)	MW-38 (A)	1/14/2004		0.5 U		1 U
MW-38(A)	MW-38 (A)	4/14/2004		0.5 U		1 U

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Remedial Investigation/Feasibility Study
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Astoria, Oregon

Locator ID	Sample ID	Sample Date	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	7/22/2004		0.5 U		1 U
MW-39(A)	MW-39 (A)	10/16/2003		0.5 U B		21.6
MW-39(A)	MW-39 (A)	1/16/2004		0.5 U B		28.8
MW-39(A)	MW-39 (A)	4/14/2004		0.6 JB		11.7
MW-39(A)	MW-39 (A)	7/21/2004		0.26 J		13.2
MW-39(A)	Trip Blank	7/21/2004		0.5 U		1 U
MW-39(A)	Trip Blank	7/22/2004		0.5 U		1 U
MW-40(A)	MW-40 (A)	10/17/2003		57.6		367
MW-40(A)	MW-40(A)	1/20/2004		833		6460
MW-40(A)	MW-40(A)	4/16/2004		1530		8150
MW-41(A)	MW-41(A)	10/14/2003		103		192
MW-42(A)	MW-42 (A)	10/15/2003		163		370
MW-43(A)	MW-43(A)	10/13/2003		0.5 U		1 U
MW-43(A)	MW-43 (A)	1/12/2004		0.5 U B		1 U
MW-43(A)	MW-43 (A)	4/13/2004		0.5 U		1 U
MW-43(A)	MW-43 (A)	7/21/2004		0.5 U		1 U
MW-44(A)	MW-44 (A)	10/17/2003		5320		14900
MW-45(A)	MW-45 (A)	10/16/2003		0.5 U		1 U
MW-45(A)	MW-45 (A)	1/16/2004		0.5 U		1 U
MW-45(A)	MW-45 (A)	4/14/2004		0.5 U		1 U
MW-45(A)	MW-45 (A)	7/21/2004		0.5 U		1 U
MW-46(A)	MW-46(A)	10/14/2003		0.5 U		1 U
MW-46(A)	MW-46(A)	1/14/2004		0.5 U		1 U
MW-46(A)	MW-46 (A)	4/12/2004		0.5 U		1 U
MW-46(A)	MW-46 (A)	7/21/2004		0.5 U		1 U
MW-47(A)	MW-47(A)	10/13/2003		0.5 U		1 U
MW-47(A)	MW-47 (A)	1/14/2004		0.5 U		1 U
MW-47(A)	MW-47 (A)	4/12/2004		0.5 U		1 U
MW-47(A)	MW-47 (A)	7/21/2004		0.5 U		1 U
MW-48(A)	MW-48(A)	10/14/2003		0.5 U		1 U
MW-48(A)	MW-48 (A)	1/14/2004		0.5 U		1 U
MW-48(A)	MW-48 (A)	4/12/2004		0.5 U		1 U

TABLE D-11

RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-48(A)	MW-48 (A)	7/21/2004		0.5 U		1 U
R-1(M)	R-1(M)	10/22/2003		0.5 U B		1 U
TW-100(C)	SB100(C)W	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-103(C)	SB103(C)W	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-104(C)	SB104(C)W	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-200(C)	SB200(C)W	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-201(C)	SB201(C)W	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-202(C)	SB202(C)W	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-203(C)	SB203(C)W	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-204(C)	SB204(C)W	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-204(C)	SB204(C)W2	8/22/2002	0.4 U	0.4 U	0.8 U	
TW-304(D)	SB-304-D-9.0	8/19/2002		10.9		73.1
TW-304(D)	SB-304-D-9.0 DU	8/19/2002		10.2		56.1
TW-305(D)	SB-305-D-9.0	8/19/2002		186		3870
TW-306(D)	SB-306-D-9.0	8/19/2002		83.3		106
TW-307(D)	SB-307-D-9.0	8/19/2002		76		135
TW-309(D)	SB-309-D-9.0	8/19/2002		2.09		5.13
TW-311(D)	SB-311-D-10.0	8/19/2002		1.6		3.17 U
TW-312(D)	SB-312-D-10.0	8/19/2002		0.5 U		1 U
TW-313(D)	TW-313-D-22.0	8/20/2002		40.6		316
TW-314(D)	TW-314-D-22.0	8/20/2002		9.8		81.3
TW-318(D)	TW-318-D-22.0	8/20/2002		0.5 U		2.03
TW-319(D)	SB-319-D-14.0	8/19/2002		0.5 U		0.724 U
TW-400(F)	TW-400(F)	8/22/2002		0.5 U		1 U
TW-401(F)	TW-401(F)	8/23/2002		0.5 U		1 U
TW-402(F)	TW-402(F)	8/23/2002		0.5 U		1 U
TW-405(F)	TW-405(F)	8/22/2002		0.86		62.7
TW-406(F)	TW-406(F)	8/22/2002		7.59		474
TW-407(F)	TW-407(F)	8/22/2002		1.63		17.3
TW-408(F)	TW-408(F)	8/22/2002		0.5 U		1.47
TW-409(F)	TW-409(F)	8/22/2002		0.5 U		1 U
TW-600(N)	TW-600(N)	9/13/2002		28		840
TW-601(N)	TW-601(N)	9/13/2002		1.1		107
TW-602(N)	BT-602(N)	9/13/2002		0.5 U		1.19
TW-602(N)	TW-602(N)	9/13/2002		0.5 U		1.39
TW-603(N)	TW-603(N)	9/13/2002		0.5 U		3.65

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RBDMVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002		0.5 U		1 U
TW-612(N)	TW-612(N)	9/12/2002		102		250
TW-612(N)	TW-612(N)	9/12/2002		145		353
TW-616(N)	TW-616(N)	9/12/2002		0.5 U		1 U
TW-616(N)	TW-616(N)	9/12/2002		0.5 U		1 U
TW-619(N)	TW-619(N)	9/12/2002		7.85		61.8
TW-619(N)	TW-619(N)	9/12/2002		11.7		81.3
TW-623(N)	TW-623(N)	9/12/2002		0.68		27.9
TW-623(N)	TW-623(N)	9/12/2002		3.3		40.1
TW-624(N)	TW-624(N)	9/12/2002	11.2	1.65	47.1	
TW-625(N)	BT-625(N)	9/12/2002		0.5 U		1 U
TW-625(N)	TW-625(N)	9/12/2002		0.5 U		1 U
TW-700(P)	TW-700(P)	8/21/2002	172	5.35	898	
TW-701(P)	TW-701(P)	8/20/2002	27.8	85.7	1350	
TW-702(P)	TW-702(P)	8/21/2002	0.4 U	0.4 U	0.8 U	
TW-703(P)	TW-703(P)	8/21/2002	29.9	30.9	229	
TW-704(P)	TW-704(P)	8/21/2002	3.69	1.07	5.98	
TW-706(P)	TW-706(P)	8/21/2002	91.6	19	540	
TW-707(P)	TW-707(P)	8/21/2002	0.27 J	0.41	1.14	
TW-708(P)	BT-708(P)	8/20/2002		43.6		69.9
TW-708(P)	TW-708(P)	8/20/2002		31.9		57.4
TW-709(P)	TW-709(P)	8/21/2002	0.4 U	0.4 U	0.8 U	
TW-710(P)	TW-710(P)	8/21/2002	0.4 U	0.4 U	0.8 U	
TW-711(P)	BT-711(P)	8/21/2002	0.4 U	0.4 U	0.8 U	
TW-711(P)	TW-711(P)	8/21/2002	0.4 U	0.4 U	0.8 U	
TW-712(P)	TW-712(P)	8/21/2002	0.4 U	0.4 U	0.8 U	
TW-714(P)	TW-714(P)	8/21/2002		33.6		1450
TW-716(P)	TW-716(P)	8/20/2002	0.4 U	0.4 U	0.8 U	
TW-717(P)	TW-717(P)	8/20/2002	0.49	0.38 J	0.8 U	
TW-718(P)	TW-718(P)	8/21/2002		0.5 U		1 U
TW-719(P)	BT-719(P)	8/23/2002		0.5 U		1 U
TW-719(P)	TW-719(P)	8/23/2002		0.5 U		1 U
TW-720(P)	TW-720(P)	8/23/2002		192		2650
TW-800(Q)	TW-800(Q)-10.5	8/27/2002		0.5 U		1 U
TW-801(Q)	TW801(Q)-10	8/26/2002		0.5 U		1 U
TW-803(Q)	TW-803(Q)-9	8/26/2002		0.5 U		1 U
TW-805(Q)	TW-805(Q)-10	8/26/2002		0.5 U		6.87
TW-806(Q)	TW-806 (Q)-11	8/28/2002		1.13		1 U
TW-810(Q)	TW-810 (Q)-8	8/28/2002		0.5 U		1 U
TW-814(Q)	TW814(Q)9	8/27/2002		0.5 U		1 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	o-Xylene	Toluene	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
TW-816(Q)	TW-816(Q)-12	8/27/2002		0.5 U		1 U
TW-818(Q)	TW-818 (Q)-11	8/28/2002		0.5 U		1 U
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002		0.581		7.93
TW-819(Q)	TW-819 (Q)-9.5(	8/28/2002		3.17		6.49
TW-820(Q)	TW-820 (Q)-10	8/29/2002		1.05		11.6
TW-822(Q)	TW-822 (Q)-9	8/29/2002		2.89 J		336 J
TW-824(Q)	TW-824(Q)-9	8/28/2002		0.5 U		1 U
TW-825(Q)	TW-825(Q)-8.5	8/27/2002		0.5 U		1 U
TW-826(Q)	TW-826(Q)-9	8/27/2002		0.5 U		1 U
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002		0.5 U		1 U
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002		0.5 U		1 U
TW-833(Q)	TW-833 (Q)-10.5	8/28/2002		0.5 U		1 U
TW-900(S)	SB-900(TW)	8/26/2002		0.701		1 U
TW-901(S)	SB-901(TW)	8/26/2002		1.03		64.1
TW-901(S)	SB-901(TW)	8/26/2002		2.5 U		55.6
TW-902(S)	SB-902(TW)	8/26/2002		0.907		137
TW-903(S)	SB-903(TW)	8/26/2002		4.32		146
TW-903(S)	SB-903(TW)	8/26/2002		4.51		146
TW-904(S)	SB-904(TW)	8/26/2002		0.5 U		1 U
TW-904(S)	SB-904(TW)	8/26/2002		0.5 U		0.63 J
TW-905(S)	SB-905(TW)	8/26/2002		0.81 J		193 J
TW-905(S)	SB-905(TW)	8/26/2002		2.5 U		406
TW-906(S)	SB-906(TW)	8/27/2002		0.25 J		8.89
TW-906(S)	SB-906(TW)	8/27/2002		0.5 U		12.8
TW-908(S)	SB-908(TW)	8/27/2002		0.5 U		1 U
TW-908(S)	SB-908(TW)	8/27/2002		0.5 U		1 U
TW-909(S)	SB-909(TW)	8/27/2002		0.5 U		1 U
TW-910(S)	SB-910(TW)	8/26/2002		0.5 U		1.43
TW-911(S)	SB-911(TW)	8/27/2002		1.1		5.65
TW-911(S)	SB-911(TW)	8/27/2002		0.43 J		2.22

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1(F)	10/22/2003								
MW-1(F)	MW-1 (F)	1/15/2004								
MW-1(F)	MW-1(F)	4/15/2004								
MW-1(F)	MW-1 (F)	7/20/2004								
MW-2(M)	MW-2(M)	6/19/2003								
MW-2(M)	MW-2 (M)	10/15/2003								
MW-2(M)	MW-2 (M)	1/12/2004								
MW-2(M)	MW-2(M)	4/14/2004								
MW-2(M)	MW-2 (M)	7/22/2004								
MW-6(M)	MW-6(M)	6/19/2003								
MW-6(M)	MW-6(M)	10/22/2003								
MW-6(M)	MW-6 (M)	1/12/2004								
MW-6(M)	MW-6 (M)	4/13/2004								
MW-6(M)	MW-6 (M)	7/19/2004								
MW-7(M)	BM-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	10/13/2003								
MW-7(M)	MW-7 (M)	1/12/2004								
MW-7(M)	MW-7 (M)	4/12/2004								
MW-7(M)	MW-7 (M)	7/19/2004								
MW-10(M)	MW-10(M)	6/19/2003								
MW-10(M)	MW-10 (M)	10/15/2003								
MW-10(M)	MW-10 (M)	1/13/2004								
MW-10(M)	MW-10 (M)	4/13/2004								
MW-10(M)	MW-10 (M)	7/19/2004								
MW-11(M)	MW-11(M)	6/19/2003								
MW-11(M)	MW-11 (M)	10/15/2003								
MW-11(M)	MW-11 (M)	1/13/2004								
MW-11(M)	MW-11 (M)	4/13/2004								
MW-11(M)	MW-11 (M)	7/21/2004								
MW-12(A)	MW-12(A)	10/22/2003								
MW-12(A)	MW-12 (A)	1/15/2004								

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004								
MW-12(A)	MW-12 (A)	7/22/2004								
MW-13(A)	MW-13(A)	10/22/2003								
MW-13(A)	MW-13 (A)	1/15/2004								
MW-13(A)	MW-13(A)	4/16/2004								
MW-13(A)	MW-13 (A)	7/22/2004								
MW-14(A)	MW-14(A)	10/21/2003								
MW-14(A)	MW-14 (A)	1/15/2004								
MW-14(A)	MW-14(A)	4/16/2004								
MW-14(A)	MW-14 (A)	7/23/2004								
MW-15(A)	MW-15(A)	10/20/2003								
MW-16(A)	MW-16(A)	10/20/2003								
MW-16(A)	MW-16(A)	1/19/2004								
MW-16(A)	MW-16(A)	4/15/2004								
MW-16(A)	MW-16 (A)	7/22/2004								
MW-17 (A)	BM-17 (A)	7/22/2004								
MW-17(A)	MW-17 (A)	10/17/2003								
MW-17(A)	BM-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	4/15/2004								
MW-17(A)	MW-17 (A)	7/22/2004								
MW-18(A)	MW-18(A)	10/21/2003								
MW-18(A)	MW-18(A)	1/19/2004								
MW-18(A)	MW-18(A)	4/15/2004								
MW-18(A)	MW-18 (A)	7/21/2004								
MW-19(A)	BM-19(A)	10/20/2003								
MW-19(A)	MW-19(A)	10/20/2003								
MW-19(A)	MW-19 (A)	1/13/2004								
MW-19(A)	MW-19(A)	4/15/2004								
MW-19(A)	BM-19 (A)	7/20/2004								
MW-19(A)	MW-19 (A)	7/20/2004								

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003								
MW-20(A)	MW-20 (A)	1/13/2004								
MW-20(A)	MW-20(A)	4/15/2004								
MW-20(A)	MW-20 (A)	7/20/2004								
MW-21(A)	MW-21(A)	10/20/2003								
MW-21(A)	BM-21 (A)	1/13/2004								
MW-21(A)	MW-21 (A)	1/13/2004								
MW-21(A)	MW-21(A)	4/16/2004								
MW-21(A)	MW-21 (A)	7/20/2004								
MW-22(A)	MW-22 (A)	10/16/2003								
MW-22(A)	MW-22(A)	1/19/2004								
MW-22(A)	MW-22(A)	4/15/2004								
MW-22(A)	MW-22 (A)	7/20/2004								
MW-23(A)	MW-23(A)	10/20/2003								
MW-23(A)	MW-23 (A)	1/15/2004								
MW-23(A)	BM-23(A)	4/15/2004								
MW-23(A)	MW-23(A)	4/15/2004								
MW-23(A)	MW-23 (A)	7/20/2004								
MW-24(A)	MW-24(A)	10/21/2003								
MW-24(A)	MW-24 (A)	1/15/2004								
MW-24(A)	MW-24(A)	4/14/2004								
MW-24(A)	MW-24 (A)	7/22/2004								
MW-26(A)	MW-26 (A)	10/17/2003								
MW-26(A)	MW-26 (A)	1/15/2004								
MW-26(A)	MW-26(A)	4/14/2004								
MW-26(A)	MW-26 (A)	7/22/2004								
MW-27(A)	MW-27(A)	10/21/2003								
MW-27(A)	MW-27 (A)	1/14/2004								
MW-27(A)	MW-27 (A)	4/14/2004								
MW-27(A)	MW-27 (A)	7/22/2004								
MW-28(A)	MW-28 (A)	10/17/2003								
MW-28(A)	MW-28(A)	1/19/2004								

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004								
MW-28(A)	MW-28 (A)	7/23/2004								
MW-29(A)	MW-29(A)	10/21/2003								
MW-29(A)	MW-29(A)	1/19/2004								
MW-29(A)	MW-29(A)	4/16/2004								
MW-29(A)	MW-29 (A)	7/22/2004								
MW-30(A)	MW-30 (A)	10/16/2003								
MW-30(A)	MW-30 (A)	1/16/2004								
MW-30(A)	MW-30 (A)	4/13/2004								
MW-30(A)	MW-30 (A)	7/20/2004								
MW-31(A)	BM-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	1/12/2004								
MW-31(A)	BM-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	7/20/2004								
MW-32(A)	MW-32(A)	10/14/2003								
MW-32(A)	MW-32 (A)	1/12/2004								
MW-32(A)	MW-32 (A)	4/13/2004								
MW-32(A)	MW-32 (A)	7/19/2004								
MW-33(A)	MW-33(A)	10/14/2003								
MW-33(A)	MW-33 (A)	1/12/2004								
MW-33(A)	MW-33 (A)	4/13/2004								
MW-33(A)	MW-33 (A)	7/19/2004								
MW-34(A)	MW-34(A)	10/14/2003								
MW-34(A)	MW-34 (A)	1/13/2004								
MW-34(A)	MW-34 (A)	4/14/2004								
MW-34(A)	MW-34 (A)	7/20/2004								
MW-35(A)	MW-35 (A)	10/16/2003								
MW-35(A)	MW-35 (A)	1/16/2004								
MW-35(A)	MW-35 (A)	4/13/2004								
MW-35(A)	MW-35 (A)	7/20/2004								

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003								
MW-36(A)	MW-36 (A)	1/14/2004								
MW-36(A)	MW-36 (A)	4/14/2004								
MW-36(A)	MW-36 (A)	7/22/2004								
MW-37(A)	MW-37 (A)	10/17/2003								
MW-38(A)	MW-38(A)	10/21/2003								
MW-38(A)	MW-38 (A)	1/14/2004								
MW-38(A)	MW-38 (A)	4/14/2004								
MW-38(A)	MW-38 (A)	7/22/2004								
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	1/16/2004								
MW-39(A)	MW-39 (A)	4/14/2004								
MW-39(A)	MW-39 (A)	7/21/2004								
MW-39(A)	Trip Blank	7/21/2004								
MW-39(A)	Trip Blank	7/22/2004								
MW-40(A)	MW-40 (A)	10/17/2003								
MW-40(A)	MW-40(A)	1/20/2004								
MW-40(A)	MW-40(A)	4/16/2004								
MW-41(A)	MW-41(A)	10/14/2003								
MW-42(A)	MW-42 (A)	10/15/2003								
MW-43(A)	MW-43(A)	10/13/2003								
MW-43(A)	MW-43 (A)	1/12/2004								
MW-43(A)	MW-43 (A)	4/13/2004								
MW-43(A)	MW-43 (A)	7/21/2004								
MW-44(A)	MW-44 (A)	10/17/2003								
MW-45(A)	MW-45 (A)	10/16/2003								
MW-45(A)	MW-45 (A)	1/16/2004								
MW-45(A)	MW-45 (A)	4/14/2004								
MW-45(A)	MW-45 (A)	7/21/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003								
MW-46(A)	MW-46(A)	1/14/2004								
MW-46(A)	MW-46 (A)	4/12/2004								
MW-46(A)	MW-46 (A)	7/21/2004								
MW-47(A)	MW-47(A)	10/13/2003								
MW-47(A)	MW-47 (A)	1/14/2004								
MW-47(A)	MW-47 (A)	4/12/2004								
MW-47(A)	MW-47 (A)	7/21/2004								
MW-48(A)	MW-48(A)	10/14/2003								
MW-48(A)	MW-48 (A)	1/14/2004								
MW-48(A)	MW-48 (A)	4/12/2004								
MW-48(A)	MW-48 (A)	7/21/2004								
R-1(M)	R-1(M)	10/22/2003								
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-103(C)	SB103(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-104(C)	SB104(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-203(C)	SB203(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-304(D)	SB-304-D-9.0	8/19/2002								
TW-304(D)	SB-304-D-9.0 D	8/19/2002								
TW-305(D)	SB-305-D-9.0	8/19/2002								
TW-306(D)	SB-306-D-9.0	8/19/2002								
TW-307(D)	SB-307-D-9.0	8/19/2002								
TW-309(D)	SB-309-D-9.0	8/19/2002								
TW-311(D)	SB-311-D-10.0	8/19/2002								
TW-312(D)	SB-312-D-10.0	8/19/2002								
TW-313(D)	TW-313-D-22.0	8/20/2002								
TW-314(D)	TW-314-D-22.0	8/20/2002								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002								
TW-319(D)	SB-319-D-14.0	8/19/2002								
TW-400(F)	TW-400(F)	8/22/2002								
TW-401(F)	TW-401(F)	8/23/2002								
TW-402(F)	TW-402(F)	8/23/2002								
TW-405(F)	TW-405(F)	8/22/2002								
TW-406(F)	TW-406(F)	8/22/2002								
TW-407(F)	TW-407(F)	8/22/2002								
TW-408(F)	TW-408(F)	8/22/2002								
TW-409(F)	TW-409(F)	8/22/2002								
TW-600(N)	TW-600(N)	9/13/2002								
TW-601(N)	TW-601(N)	9/13/2002								
TW-602(N)	BT-602(N)	9/13/2002								
TW-602(N)	TW-602(N)	9/13/2002								
TW-603(N)	TW-603(N)	9/13/2002								
TW-608(N)	TW-608 (N)	9/13/2002								
TW-612(N)	TW-612(N)	9/12/2002								
TW-612(N)	TW-612(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002								
TW-624(N)	TW-624(N)	9/12/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-624(N)	TW-624(N)	9/12/2002								
TW-625(N)	BT-625(N)	9/12/2002								
TW-625(N)	TW-625(N)	9/12/2002								
TW-700(P)	TW-700(P)	8/21/2002	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
TW-701(P)	TW-701(P)	8/20/2002	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TW-702(P)	TW-702(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-703(P)	TW-703(P)	8/21/2002	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TW-704(P)	TW-704(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-706(P)	TW-706(P)	8/21/2002	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
TW-707(P)	TW-707(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-708(P)	BT-708(P)	8/20/2002								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002								
TW-709(P)	TW-709(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-710(P)	TW-710(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-711(P)	BT-711(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-711(P)	TW-711(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-712(P)	TW-712(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-714(P)	TW-714(P)	8/21/2002								
TW-716(P)	TW-716(P)	8/20/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-717(P)	TW-717(P)	8/20/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-718(P)	TW-718(P)	8/21/2002								
TW-719(P)	BT-719(P)	8/23/2002								
TW-719(P)	TW-719(P)	8/23/2002								
TW-720(P)	TW-720(P)	8/23/2002								
TW-800(Q)	TW-800(Q)-10.5	8/27/2002								
TW-801(Q)	TW801(Q)-10	8/26/2002								
TW-803(Q)	TW-803(Q)-9	8/26/2002								
TW-805(Q)	TW-805(Q)-10	8/26/2002								
TW-806(Q)	TW-806 (Q)-11	8/28/2002								
TW-810(Q)	TW-810 (Q)-8	8/28/2002								
TW-814(Q)	TW814(Q)9	8/27/2002								
TW-816(Q)	TW-816(Q)-12	8/27/2002								
TW-818(Q)	TW-818 (Q)-11	8/28/2002								
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002								
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002								
TW-820(Q)	TW-820 (Q)-10	8/29/2002								
TW-822(Q)	TW-822 (Q)-9	8/29/2002								
TW-824(Q)	TW-824(Q)-9	8/28/2002								
TW-825(Q)	TW-825(Q)-8.5	8/27/2002								
TW-826(Q)	TW-826(Q)-9	8/27/2002								
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002								
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002								
TW-833(Q)	TW-833 (Q)-10.	8/28/2002								
TW-900(S)	SB-900(TW)	8/26/2002								
TW-901(S)	SB-901(TW)	8/26/2002								
TW-901(S)	SB-901(TW)	8/26/2002								
TW-902(S)	SB-902(TW)	8/26/2002								
TW-903(S)	SB-903(TW)	8/26/2002								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-903(S)	SB-903(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002								
TW-906(S)	SB-906(TW)	8/27/2002								
TW-906(S)	SB-906(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002								
TW-909(S)	SB-909(TW)	8/27/2002								
TW-910(S)	SB-910(TW)	8/26/2002								
TW-911(S)	SB-911(TW)	8/27/2002								
TW-911(S)	SB-911(TW)	8/27/2002								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002			1 U		0.5 U		0.5 U	
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1(F)	10/22/2003			1.64		0.5 U		0.5 U	
MW-1(F)	MW-1 (F)	1/15/2004			0.09 J		0.5 U		0.5 U	
MW-1(F)	MW-1(F)	4/15/2004			0.36 J		0.5 U		0.5 U	
MW-1(F)	MW-1 (F)	7/20/2004			0.37 J		0.5 U		0.5 U	
MW-2(M)	MW-2(M)	6/19/2003			100		2.5 U		2.5 U	
MW-2(M)	MW-2 (M)	10/15/2003			2.23		0.5 U		0.5 U	
MW-2(M)	MW-2 (M)	1/12/2004			1 U		0.5 U		0.5 U	
MW-2(M)	MW-2(M)	4/14/2004			87.6		2.5 U		2.5 U	
MW-2(M)	MW-2 (M)	7/22/2004			16.3		2.5 U		2.5 U	
MW-6(M)	MW-6(M)	6/19/2003			1 U		0.5 U		0.5 U	
MW-6(M)	MW-6(M)	10/22/2003			1 U		0.5 U		0.5 U	
MW-6(M)	MW-6 (M)	1/12/2004			0.92		0.5 U		0.5 U	
MW-6(M)	MW-6 (M)	4/13/2004			1 U		0.5 U		0.5 U	
MW-6(M)	MW-6 (M)	7/19/2004			1 U		0.5 U		0.5 U	
MW-7(M)	BM-7(M)	6/19/2003			1 U		0.5 U		0.5 U	
MW-7(M)	MW-7(M)	6/19/2003			1 U		0.5 U		0.5 U	
MW-7(M)	MW-7(M)	10/13/2003			1 U		0.5 U		0.5 U	
MW-7(M)	MW-7 (M)	1/12/2004			1 U		0.5 U		0.5 U	
MW-7(M)	MW-7 (M)	4/12/2004			1 U		0.5 U		0.5 U	
MW-7(M)	MW-7 (M)	7/19/2004			1 U		0.5 U		0.5 U	
MW-10(M)	MW-10(M)	6/19/2003			26.1		0.5 U		0.5 U	
MW-10(M)	MW-10 (M)	10/15/2003			6.3		1 U		1 U	
MW-10(M)	MW-10 (M)	1/13/2004			4.05		0.5 U		0.5 U	
MW-10(M)	MW-10 (M)	4/13/2004			3.71		0.5 U		0.5 U	
MW-10(M)	MW-10 (M)	7/19/2004			4.16		0.5 U		0.5 U	
MW-11(M)	MW-11(M)	6/19/2003			1 U		0.5 U		0.5 U	
MW-11(M)	MW-11 (M)	10/15/2003			1 U B		0.5 U		0.5 U	
MW-11(M)	MW-11 (M)	1/13/2004			1 U		0.5 U		0.5 U	
MW-11(M)	MW-11 (M)	4/13/2004			0.19 J		0.5 U		0.5 U	
MW-11(M)	MW-11 (M)	7/21/2004			1 U		0.5 U		0.5 U	
MW-12(A)	MW-12(A)	10/22/2003			0.15 J		0.5 U		0.5 U	
MW-12(A)	MW-12 (A)	1/15/2004			1 U		0.5 U		0.5 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004			1 U		0.5 U		0.5 U	
MW-12(A)	MW-12 (A)	7/22/2004			1 U		0.5 U		0.5 U	
MW-13(A)	MW-13(A)	10/22/2003			17.4		2.5 U		2.5 U	
MW-13(A)	MW-13 (A)	1/15/2004			393		10 U		6.8	
MW-13(A)	MW-13(A)	4/16/2004			31		10 U		10 U	
MW-13(A)	MW-13 (A)	7/22/2004			8.6 J		10 U		10 U	
MW-14(A)	MW-14(A)	10/21/2003			0.53 J		0.5 U		0.5 U	
MW-14(A)	MW-14 (A)	1/15/2004			0.09 J		0.5 U		0.5 U	
MW-14(A)	MW-14(A)	4/16/2004			1 U		0.5 U		0.5 U	
MW-14(A)	MW-14 (A)	7/23/2004			1 U		0.5 U		0.5 U	
MW-15(A)	MW-15(A)	10/20/2003			7.37		0.5 U		0.26 J	
MW-16(A)	MW-16(A)	10/20/2003			2.09		0.5 U		0.5 U	
MW-16(A)	MW-16(A)	1/19/2004			1 U		0.5 U		0.5 U	
MW-16(A)	MW-16(A)	4/15/2004			1 U		0.5 U		0.5 U	
MW-16(A)	MW-16 (A)	7/22/2004			0.48 J		0.5 U		0.5 U	
MW-17 (A)	BM-17 (A)	7/22/2004			0.16 J		0.5 U		0.5 U	
MW-17(A)	MW-17 (A)	10/17/2003			3.19		0.5 U		0.5 U	
MW-17(A)	BM-17(A)	1/19/2004			0.62 J		0.5 U		0.5 U	
MW-17(A)	MW-17(A)	1/19/2004			0.72 J		0.5 U		0.5 U	
MW-17(A)	MW-17(A)	4/15/2004			0.44 J		0.5 U		0.5 U	
MW-17(A)	MW-17 (A)	7/22/2004			0.44 J		0.5 U		0.5 U	
MW-18(A)	MW-18(A)	10/21/2003			0.72 J		1 U		1 U	
MW-18(A)	MW-18(A)	1/19/2004			0.29 J		0.5 U		0.5 U	
MW-18(A)	MW-18(A)	4/15/2004			0.17 J		0.5 U		0.5 U	
MW-18(A)	MW-18 (A)	7/21/2004			0.09 J		0.5 U		0.5 U	
MW-19(A)	BM-19(A)	10/20/2003			1 U		0.5 U		0.5 U	
MW-19(A)	MW-19(A)	10/20/2003			1 U		0.5 U		0.5 U	
MW-19(A)	MW-19 (A)	1/13/2004			1 U		0.5 U		0.5 U	
MW-19(A)	MW-19(A)	4/15/2004			1 U		0.5 U		0.5 U	
MW-19(A)	BM-19 (A)	7/20/2004			1 U		0.5 U		0.5 U	
MW-19(A)	MW-19 (A)	7/20/2004			0.13 J		0.5 U		0.5 U	

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003			15.9		0.5 U		0.5 U	
MW-20(A)	MW-20 (A)	1/13/2004			56.2		0.5 U		0.5 U	
MW-20(A)	MW-20(A)	4/15/2004			5.97		0.5 U		0.5 U	
MW-20(A)	MW-20 (A)	7/20/2004			19.6		0.5 U		0.5 U	
MW-21(A)	MW-21(A)	10/20/2003			0.2 J		0.5 U		0.5 U	
MW-21(A)	BM-21 (A)	1/13/2004			1 U		0.5 U		0.5 U	
MW-21(A)	MW-21 (A)	1/13/2004			1 U		0.5 U		0.5 U	
MW-21(A)	MW-21(A)	4/16/2004			1.37		0.5 U		0.5 U	
MW-21(A)	MW-21 (A)	7/20/2004			0.22 J		0.5 U		0.5 U	
MW-22(A)	MW-22 (A)	10/16/2003			1 U B		0.5 U		0.5 U	
MW-22(A)	MW-22(A)	1/19/2004			1 U		0.5 U		0.5 U	
MW-22(A)	MW-22(A)	4/15/2004			1 U		0.5 U		0.5 U	
MW-22(A)	MW-22 (A)	7/20/2004			1 U		0.5 U		0.5 U	
MW-23(A)	MW-23(A)	10/20/2003			1 U		0.5 U		0.5 U	
MW-23(A)	MW-23 (A)	1/15/2004			0.1		0.5 U		0.5 U	
MW-23(A)	BM-23(A)	4/15/2004			1.89		0.5 U		0.5 U	
MW-23(A)	MW-23(A)	4/15/2004			2.7		0.5 U		0.5 U	
MW-23(A)	MW-23 (A)	7/20/2004			1 U		0.5 U		0.5 U	
MW-24(A)	MW-24(A)	10/21/2003			2.05		0.5 U		0.5 U	
MW-24(A)	MW-24 (A)	1/15/2004			232		5 U		5 U	
MW-24(A)	MW-24(A)	4/14/2004			55		0.5 U		0.5 U	
MW-24(A)	MW-24 (A)	7/22/2004			48.3		0.5 U		0.5 U	
MW-26(A)	MW-26 (A)	10/17/2003			600		2.5 U		2.5 U	
MW-26(A)	MW-26 (A)	1/15/2004			3120		10 U		10 U	
MW-26(A)	MW-26(A)	4/14/2004			2580		10 U		10 U	
MW-26(A)	MW-26 (A)	7/22/2004			3300		10 U		10 U	
MW-27(A)	MW-27(A)	10/21/2003			1 U		0.5 U		0.5 U	
MW-27(A)	MW-27 (A)	1/14/2004			1 U		0.5 U		0.5 U	
MW-27(A)	MW-27 (A)	4/14/2004			1 U		0.5 U		0.5 U	
MW-27(A)	MW-27 (A)	7/22/2004			1 U		0.5 U		0.5 U	
MW-28(A)	MW-28 (A)	10/17/2003			566		5 U		5 U	
MW-28(A)	MW-28(A)	1/19/2004			942		5 U		5 U	

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Remedial Investigation/Feasibility Study
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Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004			250		5 U		5 U	
MW-28(A)	MW-28 (A)	7/23/2004			130		2.5 U		2.5 U	
MW-29(A)	MW-29(A)	10/21/2003			1980		25 U		25 U	
MW-29(A)	MW-29(A)	1/19/2004			2630		25 U		25 U	
MW-29(A)	MW-29(A)	4/16/2004			1770		25 U		25 U	
MW-29(A)	MW-29 (A)	7/22/2004			2260		25 U		25 U	
MW-30(A)	MW-30 (A)	10/16/2003			20 U B		10 U		10 U	
MW-30(A)	MW-30 (A)	1/16/2004			33.6		10 U		10 U	
MW-30(A)	MW-30 (A)	4/13/2004			75.7		5 U		5 U	
MW-30(A)	MW-30 (A)	7/20/2004			3.4 J		10 U		10 U	
MW-31(A)	BM-31 (A)	10/16/2003			10 U B		5 U		5 U	
MW-31(A)	MW-31 (A)	10/16/2003			10 U B		5 U		5 U	
MW-31(A)	MW-31 (A)	1/12/2004			10 U		5 U		5 U	
MW-31(A)	BM-31 (A)	4/13/2004			0.9 J		2.5 U		2.5 U	
MW-31(A)	MW-31 (A)	4/13/2004			0.85		2.5 U		2.5 U	
MW-31(A)	MW-31 (A)	7/20/2004			1.1 J		5 U		5 U	
MW-32(A)	MW-32(A)	10/14/2003			1 U		0.5 U		0.5 U	
MW-32(A)	MW-32 (A)	1/12/2004			1 U		0.5 U		0.5 U	
MW-32(A)	MW-32 (A)	4/13/2004			1 U		0.5 U		0.5 U	
MW-32(A)	MW-32 (A)	7/19/2004			1 U		0.5 U		0.5 U	
MW-33(A)	MW-33(A)	10/14/2003			1 U		0.5 U		0.5 U	
MW-33(A)	MW-33 (A)	1/12/2004			1 U		0.5 U		0.5 U	
MW-33(A)	MW-33 (A)	4/13/2004			1 U		0.5 U		0.5 U	
MW-33(A)	MW-33 (A)	7/19/2004			1 U		0.5 U		0.5 U	
MW-34(A)	MW-34(A)	10/14/2003			1 U		0.5 U		0.5 U	
MW-34(A)	MW-34 (A)	1/13/2004			1 U		0.5 U		0.5 U	
MW-34(A)	MW-34 (A)	4/14/2004			1 U		0.5 U		0.5 U	
MW-34(A)	MW-34 (A)	7/20/2004			1 U		0.5 U		0.5 U	
MW-35(A)	MW-35 (A)	10/16/2003			1 U		0.5 U		0.5 U	
MW-35(A)	MW-35 (A)	1/16/2004			0.13 J		0.5 U		0.5 U	
MW-35(A)	MW-35 (A)	4/13/2004			1 U		0.5 U		0.5 U	
MW-35(A)	MW-35 (A)	7/20/2004			1 U		0.5 U		0.5 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003			0.15 J		0.5 U		0.5 U	
MW-36(A)	MW-36 (A)	1/14/2004			1 U		0.5 U		0.5 U	
MW-36(A)	MW-36 (A)	4/14/2004			1 U		0.5 U		0.5 U	
MW-36(A)	MW-36 (A)	7/22/2004			1 U		0.5 U		0.5 U	
MW-37(A)	MW-37 (A)	10/17/2003			12.2		0.5 U		0.5 U	
MW-38(A)	MW-38(A)	10/21/2003			1 U		0.5 U		0.5 U	
MW-38(A)	MW-38 (A)	1/14/2004			1 U		0.5 U		0.5 U	
MW-38(A)	MW-38 (A)	4/14/2004			1 U		0.5 U		0.5 U	
MW-38(A)	MW-38 (A)	7/22/2004			1 U		0.5 U		0.5 U	
MW-39(A)	MW-39 (A)	10/16/2003			19.7		0.5 U		0.5 U	
MW-39(A)	MW-39 (A)	1/16/2004			14.4		0.5 U		0.5 U	
MW-39(A)	MW-39 (A)	4/14/2004			6.04		0.5 U		0.5 U	
MW-39(A)	MW-39 (A)	7/21/2004			7.49		0.5 U		0.5 U	
MW-39(A)	Trip Blank	7/21/2004			1 U		0.5 U		0.5 U	
MW-39(A)	Trip Blank	7/22/2004			1 U		0.5 U		0.5 U	
MW-40(A)	MW-40 (A)	10/17/2003			40.6		2.5 U		2.5 U	
MW-40(A)	MW-40(A)	1/20/2004			3170		10 U		10 U	
MW-40(A)	MW-40(A)	4/16/2004			3170		25 U		25 U	
MW-41(A)	MW-41(A)	10/14/2003			15.4		5 U		5 U	
MW-42(A)	MW-42 (A)	10/15/2003			44.8		10 U		10 U	
MW-43(A)	MW-43(A)	10/13/2003			1 U		0.5 U		0.5 U	
MW-43(A)	MW-43 (A)	1/12/2004			1 U		0.5 U		0.5 U	
MW-43(A)	MW-43 (A)	4/13/2004			1 U		0.5 U		0.5 U	
MW-43(A)	MW-43 (A)	7/21/2004			1 U		0.5 U		0.5 U	
MW-44(A)	MW-44 (A)	10/17/2003			3470		25 U		25 U	
MW-45(A)	MW-45 (A)	10/16/2003			1 U B		0.5 U		0.5 U	
MW-45(A)	MW-45 (A)	1/16/2004			0.11 J		0.5 U		0.5 U	
MW-45(A)	MW-45 (A)	4/14/2004			1 U		0.5 U		0.5 U	
MW-45(A)	MW-45 (A)	7/21/2004			1 U		0.5 U		0.5 U	

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003			1 U		0.5 U		0.5 U	
MW-46(A)	MW-46(A)	1/14/2004			1 U		0.5 U		0.5 U	
MW-46(A)	MW-46 (A)	4/12/2004			0.32 J		0.5 U		0.5 U	
MW-46(A)	MW-46 (A)	7/21/2004			1 U		0.5 U		0.5 U	
MW-47(A)	MW-47(A)	10/13/2003			1 U		0.5 U		0.5 U	
MW-47(A)	MW-47 (A)	1/14/2004			1 U		0.5 U		0.5 U	
MW-47(A)	MW-47 (A)	4/12/2004			1 U		0.5 U		0.5 U	
MW-47(A)	MW-47 (A)	7/21/2004			1 U		0.5 U		0.5 U	
MW-48(A)	MW-48(A)	10/14/2003			1 U		0.5 U		0.5 U	
MW-48(A)	MW-48 (A)	1/14/2004			1 U		0.5 U		0.5 U	
MW-48(A)	MW-48 (A)	4/12/2004			1 U		0.5 U		0.5 U	
MW-48(A)	MW-48 (A)	7/21/2004			1 U		0.5 U		0.5 U	
R-1(M)	R-1(M)	10/22/2003			1 U B		0.5 U		0.5 U	
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-103(C)	SB103(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-104(C)	SB104(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-203(C)	SB203(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-304(D)	SB-304-D-9.0	8/19/2002								
TW-304(D)	SB-304-D-9.0 D	8/19/2002								
TW-305(D)	SB-305-D-9.0	8/19/2002			3040		10 U		10 U	
TW-306(D)	SB-306-D-9.0	8/19/2002								
TW-307(D)	SB-307-D-9.0	8/19/2002								
TW-309(D)	SB-309-D-9.0	8/19/2002			0.34 J		0.5 U		0.5 U	
TW-311(D)	SB-311-D-10.0	8/19/2002								
TW-312(D)	SB-312-D-10.0	8/19/2002			1 U		0.5 U		0.5 U	
TW-313(D)	TW-313-D-22.0	8/20/2002								
TW-314(D)	TW-314-D-22.0	8/20/2002								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002			0.66 J		0.5 U		0.5 U	
TW-319(D)	SB-319-D-14.0	8/19/2002								
TW-400(F)	TW-400(F)	8/22/2002								
TW-401(F)	TW-401(F)	8/23/2002								
TW-402(F)	TW-402(F)	8/23/2002								
TW-405(F)	TW-405(F)	8/22/2002								
TW-406(F)	TW-406(F)	8/22/2002								
TW-407(F)	TW-407(F)	8/22/2002								
TW-408(F)	TW-408(F)	8/22/2002								
TW-409(F)	TW-409(F)	8/22/2002								
TW-600(N)	TW-600(N)	9/13/2002			7.35		2.5 U		2.5 U	
TW-601(N)	TW-601(N)	9/13/2002			192		1 U		1 U	
TW-602(N)	BT-602(N)	9/13/2002			1 U		0.5 U		0.5 U	
TW-602(N)	TW-602(N)	9/13/2002			1 U		0.5 U		0.5 U	
TW-603(N)	TW-603(N)	9/13/2002			1.72		0.5 U		0.5 U	
TW-608(N)	TW-608 (N)	9/13/2002			1 U		0.5 U		0.5 U	
TW-612(N)	TW-612(N)	9/12/2002			50 U		25 U		25 U	
TW-612(N)	TW-612(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002			1 U		0.5 U		0.5 U	
TW-616(N)	TW-616(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002			9.5		2.5 U		2.5 U	
TW-619(N)	TW-619(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002			22.2		0.5 U		0.5 U	
TW-623(N)	TW-623(N)	9/12/2002								
TW-624(N)	TW-624(N)	9/12/2002	0.5 U	0.5 U	31.5	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-624(N)	TW-624(N)	9/12/2002		5 U				5 U		
TW-625(N)	BT-625(N)	9/12/2002								
TW-625(N)	TW-625(N)	9/12/2002								
TW-700(P)	TW-700(P)	8/21/2002	2.5 U	2.5 U	803	5 U	2 U	2.5 U	2 U	2.5 U
TW-701(P)	TW-701(P)	8/20/2002	5 U	5 U	204	10 U	4 U	5 U	4 U	5 U
TW-702(P)	TW-702(P)	8/21/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-703(P)	TW-703(P)	8/21/2002	1 U	1 U	53.8	2 U	0.8 U	1 U	0.8 U	1 U
TW-704(P)	TW-704(P)	8/21/2002	0.5 U	0.5 U	1.22	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-706(P)	TW-706(P)	8/21/2002	2.5 U	2.5 U	113	5 U	2 U	2.5 U	2 U	2.5 U
TW-707(P)	TW-707(P)	8/21/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-708(P)	BT-708(P)	8/20/2002			10 U		5 U		5 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002			10 U		5 U		5 U	
TW-709(P)	TW-709(P)	8/21/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-710(P)	TW-710(P)	8/21/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-711(P)	BT-711(P)	8/21/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-711(P)	TW-711(P)	8/21/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-712(P)	TW-712(P)	8/21/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-714(P)	TW-714(P)	8/21/2002			914		10 U		10 U	
TW-716(P)	TW-716(P)	8/20/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-717(P)	TW-717(P)	8/20/2002	0.5 U	0.5 U	0.5 U	1 U	0.4 U	0.5 U	0.4 U	0.5 U
TW-718(P)	TW-718(P)	8/21/2002			1 U		0.5 U		0.5 U	
TW-719(P)	BT-719(P)	8/23/2002			1 U		0.5 U		0.5 U	
TW-719(P)	TW-719(P)	8/23/2002			1 U		0.5 U		0.5 U	
TW-720(P)	TW-720(P)	8/23/2002			1810		10 U		10 U	
TW-800(Q)	TW-800(Q)-10.5	8/27/2002								
TW-801(Q)	TW801(Q)-10	8/26/2002								
TW-803(Q)	TW-803(Q)-9	8/26/2002								
TW-805(Q)	TW-805(Q)-10	8/26/2002								
TW-806(Q)	TW-806 (Q)-11	8/28/2002								
TW-810(Q)	TW-810 (Q)-8	8/28/2002								
TW-814(Q)	TW814(Q)9	8/27/2002								
TW-816(Q)	TW-816(Q)-12	8/27/2002								
TW-818(Q)	TW-818 (Q)-11	8/28/2002								
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002								
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002								
TW-820(Q)	TW-820 (Q)-10	8/29/2002								
TW-822(Q)	TW-822 (Q)-9	8/29/2002								
TW-824(Q)	TW-824(Q)-9	8/28/2002								
TW-825(Q)	TW-825(Q)-8.5	8/27/2002								
TW-826(Q)	TW-826(Q)-9	8/27/2002								
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002								
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002								
TW-833(Q)	TW-833 (Q)-10.	8/28/2002								
TW-900(S)	SB-900(TW)	8/26/2002								
TW-901(S)	SB-901(TW)	8/26/2002			468		2.5 U		2.5 U	
TW-901(S)	SB-901(TW)	8/26/2002								
TW-902(S)	SB-902(TW)	8/26/2002								
TW-903(S)	SB-903(TW)	8/26/2002			79.8		0.5 U		0.5 U	

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-903(S)	SB-903(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002			1.6		0.5 U		0.5 U	
TW-904(S)	SB-904(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002			35.6 J		0.5 U		0.5 U	
TW-905(S)	SB-905(TW)	8/26/2002								
TW-906(S)	SB-906(TW)	8/27/2002			15.6		0.5 U		0.5 U	
TW-906(S)	SB-906(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002			0.3 J		0.5 U		0.5 U	
TW-908(S)	SB-908(TW)	8/27/2002								
TW-909(S)	SB-909(TW)	8/27/2002								
TW-910(S)	SB-910(TW)	8/26/2002								
TW-911(S)	SB-911(TW)	8/27/2002			0.27 J		0.5 U		0.5 U	
TW-911(S)	SB-911(TW)	8/27/2002								

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	0.5 U							
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1(F)	10/22/2003	0.42 J							
MW-1(F)	MW-1 (F)	1/15/2004	0.5 U							
MW-1(F)	MW-1(F)	4/15/2004	0.5 U							
MW-1(F)	MW-1 (F)	7/20/2004	0.5 U							
MW-2(M)	MW-2(M)	6/19/2003	14.6							
MW-2(M)	MW-2 (M)	10/15/2003	0.5 U							
MW-2(M)	MW-2 (M)	1/12/2004	0.5 U							
MW-2(M)	MW-2(M)	4/14/2004	3.55							
MW-2(M)	MW-2 (M)	7/22/2004	2.7							
MW-6(M)	MW-6(M)	6/19/2003	0.5 U							
MW-6(M)	MW-6(M)	10/22/2003	0.5 U							
MW-6(M)	MW-6 (M)	1/12/2004	0.2							
MW-6(M)	MW-6 (M)	4/13/2004	0.5 U							
MW-6(M)	MW-6 (M)	7/19/2004	0.5 U							
MW-7(M)	BM-7(M)	6/19/2003	0.5 U							
MW-7(M)	MW-7(M)	6/19/2003	0.5 U							
MW-7(M)	MW-7(M)	10/13/2003	0.5 U							
MW-7(M)	MW-7 (M)	1/12/2004	0.5 U							
MW-7(M)	MW-7 (M)	4/12/2004	0.5 U							
MW-7(M)	MW-7 (M)	7/19/2004	0.5 U							
MW-10(M)	MW-10(M)	6/19/2003	7.58							
MW-10(M)	MW-10 (M)	10/15/2003	1.34							
MW-10(M)	MW-10 (M)	1/13/2004	4.55							
MW-10(M)	MW-10 (M)	4/13/2004	3.15							
MW-10(M)	MW-10 (M)	7/19/2004	4.76							
MW-11(M)	MW-11(M)	6/19/2003	0.5 U							
MW-11(M)	MW-11 (M)	10/15/2003	0.31 J							
MW-11(M)	MW-11 (M)	1/13/2004	0.5 U							
MW-11(M)	MW-11 (M)	4/13/2004	0.5 U							
MW-11(M)	MW-11 (M)	7/21/2004	0.5 U							
MW-12(A)	MW-12(A)	10/22/2003	0.5 U							
MW-12(A)	MW-12 (A)	1/15/2004	0.5 U							

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004	0.5 U							
MW-12(A)	MW-12 (A)	7/22/2004	0.5 U							
MW-13(A)	MW-13(A)	10/22/2003	42.8							
MW-13(A)	MW-13 (A)	1/15/2004	10 U							
MW-13(A)	MW-13(A)	4/16/2004	41.8							
MW-13(A)	MW-13 (A)	7/22/2004	45.4							
MW-14(A)	MW-14(A)	10/21/2003	0.17 J							
MW-14(A)	MW-14 (A)	1/15/2004	0.5 U							
MW-14(A)	MW-14(A)	4/16/2004	0.5 U							
MW-14(A)	MW-14 (A)	7/23/2004	0.5 U							
MW-15(A)	MW-15(A)	10/20/2003	6.87							
MW-16(A)	MW-16(A)	10/20/2003	0.93							
MW-16(A)	MW-16(A)	1/19/2004	0.5 U							
MW-16(A)	MW-16(A)	4/15/2004	0.5 U							
MW-16(A)	MW-16 (A)	7/22/2004	0.5 U							
MW-17 (A)	BM-17 (A)	7/22/2004	0.5 U							
MW-17(A)	MW-17 (A)	10/17/2003	0.54							
MW-17(A)	BM-17(A)	1/19/2004	2.21							
MW-17(A)	MW-17(A)	1/19/2004	2.64							
MW-17(A)	MW-17(A)	4/15/2004	1.73							
MW-17(A)	MW-17 (A)	7/22/2004	0.5 U							
MW-18(A)	MW-18(A)	10/21/2003	1.56							
MW-18(A)	MW-18(A)	1/19/2004	1.15							
MW-18(A)	MW-18(A)	4/15/2004	0.5 U							
MW-18(A)	MW-18 (A)	7/21/2004	0.34 J							
MW-19(A)	BM-19(A)	10/20/2003	0.5 U							
MW-19(A)	MW-19(A)	10/20/2003	0.5 U							
MW-19(A)	MW-19 (A)	1/13/2004	0.5 U							
MW-19(A)	MW-19(A)	4/15/2004	0.5 U							
MW-19(A)	BM-19 (A)	7/20/2004	0.5 U							
MW-19(A)	MW-19 (A)	7/20/2004	0.5 U							

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003	2.06							
MW-20(A)	MW-20 (A)	1/13/2004	7.32							
MW-20(A)	MW-20(A)	4/15/2004	0.59							
MW-20(A)	MW-20 (A)	7/20/2004	1.89							
MW-21(A)	MW-21(A)	10/20/2003	0.24 J							
MW-21(A)	BM-21 (A)	1/13/2004	0.5 U							
MW-21(A)	MW-21 (A)	1/13/2004	0.5 U							
MW-21(A)	MW-21(A)	4/16/2004	0.5 U							
MW-21(A)	MW-21 (A)	7/20/2004	0.5 U							
MW-22(A)	MW-22 (A)	10/16/2003	0.5 U							
MW-22(A)	MW-22(A)	1/19/2004	0.5 U							
MW-22(A)	MW-22(A)	4/15/2004	0.5 U							
MW-22(A)	MW-22 (A)	7/20/2004	0.5 U							
MW-23(A)	MW-23(A)	10/20/2003	0.5 U							
MW-23(A)	MW-23 (A)	1/15/2004	0.5 U							
MW-23(A)	BM-23(A)	4/15/2004	0.57							
MW-23(A)	MW-23(A)	4/15/2004	0.84							
MW-23(A)	MW-23 (A)	7/20/2004	0.5 U							
MW-24(A)	MW-24(A)	10/21/2003	1.35							
MW-24(A)	MW-24 (A)	1/15/2004	33.9							
MW-24(A)	MW-24(A)	4/14/2004	3.87							
MW-24(A)	MW-24 (A)	7/22/2004	1.4							
MW-26(A)	MW-26 (A)	10/17/2003	135							
MW-26(A)	MW-26 (A)	1/15/2004	682							
MW-26(A)	MW-26(A)	4/14/2004	565							
MW-26(A)	MW-26 (A)	7/22/2004	665							
MW-27(A)	MW-27(A)	10/21/2003	0.5 U							
MW-27(A)	MW-27 (A)	1/14/2004	0.5 U							
MW-27(A)	MW-27 (A)	4/14/2004	0.5 U							
MW-27(A)	MW-27 (A)	7/22/2004	0.5 U							
MW-28(A)	MW-28 (A)	10/17/2003	138							
MW-28(A)	MW-28(A)	1/19/2004	204							

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004	51.2							
MW-28(A)	MW-28 (A)	7/23/2004	28.4							
MW-29(A)	MW-29(A)	10/21/2003	446							
MW-29(A)	MW-29(A)	1/19/2004	568							
MW-29(A)	MW-29(A)	4/16/2004	396							
MW-29(A)	MW-29 (A)	7/22/2004	521							
MW-30(A)	MW-30 (A)	10/16/2003	34.8							
MW-30(A)	MW-30 (A)	1/16/2004	14.2							
MW-30(A)	MW-30 (A)	4/13/2004	85.5							
MW-30(A)	MW-30 (A)	7/20/2004	60.6							
MW-31(A)	BM-31 (A)	10/16/2003	3.9 J							
MW-31(A)	MW-31 (A)	10/16/2003	3.9							
MW-31(A)	MW-31 (A)	1/12/2004	2.2							
MW-31(A)	BM-31 (A)	4/13/2004	2.7							
MW-31(A)	MW-31 (A)	4/13/2004	2.65							
MW-31(A)	MW-31 (A)	7/20/2004	4.8 J							
MW-32(A)	MW-32(A)	10/14/2003	0.5 U							
MW-32(A)	MW-32 (A)	1/12/2004	0.5 U							
MW-32(A)	MW-32 (A)	4/13/2004	0.5 U							
MW-32(A)	MW-32 (A)	7/19/2004	0.5 U							
MW-33(A)	MW-33(A)	10/14/2003	0.5 U							
MW-33(A)	MW-33 (A)	1/12/2004	0.5 U							
MW-33(A)	MW-33 (A)	4/13/2004	0.5 U							
MW-33(A)	MW-33 (A)	7/19/2004	0.5 U							
MW-34(A)	MW-34(A)	10/14/2003	0.5 U							
MW-34(A)	MW-34 (A)	1/13/2004	0.5 U							
MW-34(A)	MW-34 (A)	4/14/2004	0.5 U							
MW-34(A)	MW-34 (A)	7/20/2004	0.5 U							
MW-35(A)	MW-35 (A)	10/16/2003	0.5 U							
MW-35(A)	MW-35 (A)	1/16/2004	0.5 U							
MW-35(A)	MW-35 (A)	4/13/2004	0.5 U							
MW-35(A)	MW-35 (A)	7/20/2004	0.5 U							

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003	0.5 U							
MW-36(A)	MW-36 (A)	1/14/2004	0.5 U							
MW-36(A)	MW-36 (A)	4/14/2004	0.5 U							
MW-36(A)	MW-36 (A)	7/22/2004	0.5 U							
MW-37(A)	MW-37 (A)	10/17/2003	2.96							
MW-38(A)	MW-38(A)	10/21/2003	0.5 U							
MW-38(A)	MW-38 (A)	1/14/2004	0.5 U							
MW-38(A)	MW-38 (A)	4/14/2004	0.5 U							
MW-38(A)	MW-38 (A)	7/22/2004	0.5 U							
MW-39(A)	MW-39 (A)	10/16/2003	3.02							
MW-39(A)	MW-39 (A)	1/16/2004	2.7							
MW-39(A)	MW-39 (A)	4/14/2004	1.12							
MW-39(A)	MW-39 (A)	7/21/2004	1.9							
MW-39(A)	Trip Blank	7/21/2004	0.5 U							
MW-39(A)	Trip Blank	7/22/2004	0.5 U							
MW-40(A)	MW-40 (A)	10/17/2003	8.7							
MW-40(A)	MW-40(A)	1/20/2004	527							
MW-40(A)	MW-40(A)	4/16/2004	620							
MW-41(A)	MW-41(A)	10/14/2003	5 U							
MW-42(A)	MW-42 (A)	10/15/2003	11.2							
MW-43(A)	MW-43(A)	10/13/2003	0.5 U							
MW-43(A)	MW-43 (A)	1/12/2004	0.5 U							
MW-43(A)	MW-43 (A)	4/13/2004	0.5 U							
MW-43(A)	MW-43 (A)	7/21/2004	0.5 U							
MW-44(A)	MW-44 (A)	10/17/2003	898							
MW-45(A)	MW-45 (A)	10/16/2003	0.5 U							
MW-45(A)	MW-45 (A)	1/16/2004	0.5 U							
MW-45(A)	MW-45 (A)	4/14/2004	0.5 U							
MW-45(A)	MW-45 (A)	7/21/2004	0.5 U							

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003	0.5 U							
MW-46(A)	MW-46(A)	1/14/2004	0.5 U							
MW-46(A)	MW-46 (A)	4/12/2004	0.5 U							
MW-46(A)	MW-46 (A)	7/21/2004	0.5 U							
MW-47(A)	MW-47(A)	10/13/2003	0.5 U							
MW-47(A)	MW-47 (A)	1/14/2004	0.5 U							
MW-47(A)	MW-47 (A)	4/12/2004	0.5 U							
MW-47(A)	MW-47 (A)	7/21/2004	0.5 U							
MW-48(A)	MW-48(A)	10/14/2003	0.5 U							
MW-48(A)	MW-48 (A)	1/14/2004	0.5 U							
MW-48(A)	MW-48 (A)	4/12/2004	0.5 U							
MW-48(A)	MW-48 (A)	7/21/2004	0.5 U							
R-1(M)	R-1(M)	10/22/2003	0.5 U							
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-103(C)	SB103(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-104(C)	SB104(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-203(C)	SB203(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-304(D)	SB-304-D-9.0	8/19/2002								
TW-304(D)	SB-304-D-9.0 D	8/19/2002								
TW-305(D)	SB-305-D-9.0	8/19/2002	958							
TW-306(D)	SB-306-D-9.0	8/19/2002								
TW-307(D)	SB-307-D-9.0	8/19/2002								
TW-309(D)	SB-309-D-9.0	8/19/2002	0.58							
TW-311(D)	SB-311-D-10.0	8/19/2002								
TW-312(D)	SB-312-D-10.0	8/19/2002	0.5 U							
TW-313(D)	TW-313-D-22.0	8/20/2002								
TW-314(D)	TW-314-D-22.0	8/20/2002								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002	0.5 U							
TW-319(D)	SB-319-D-14.0	8/19/2002								
TW-400(F)	TW-400(F)	8/22/2002								
TW-401(F)	TW-401(F)	8/23/2002								
TW-402(F)	TW-402(F)	8/23/2002								
TW-405(F)	TW-405(F)	8/22/2002								
TW-406(F)	TW-406(F)	8/22/2002								
TW-407(F)	TW-407(F)	8/22/2002								
TW-408(F)	TW-408(F)	8/22/2002								
TW-409(F)	TW-409(F)	8/22/2002								
TW-600(N)	TW-600(N)	9/13/2002	2.5 U							
TW-601(N)	TW-601(N)	9/13/2002	1 U							
TW-602(N)	BT-602(N)	9/13/2002	0.5 U							
TW-602(N)	TW-602(N)	9/13/2002	0.5 U							
TW-603(N)	TW-603(N)	9/13/2002	0.5 U							
TW-608(N)	TW-608 (N)	9/13/2002	0.5 U							
TW-612(N)	TW-612(N)	9/12/2002	25 U							
TW-612(N)	TW-612(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002	0.5 U							
TW-616(N)	TW-616(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002	2.5 U							
TW-619(N)	TW-619(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002	20.8							
TW-623(N)	TW-623(N)	9/12/2002								
TW-624(N)	TW-624(N)	9/12/2002	50.5	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-624(N)	TW-624(N)	9/12/2002		5 U		5 U				
TW-625(N)	BT-625(N)	9/12/2002								
TW-625(N)	TW-625(N)	9/12/2002								
TW-700(P)	TW-700(P)	8/21/2002	272	2.5 U	2.5 U	2.5 U	2.5 U	50 U	50 U	2.5 U
TW-701(P)	TW-701(P)	8/20/2002	5 U	5 U	5 U	5 U	5 U	100 U	100 U	5 U
TW-702(P)	TW-702(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-703(P)	TW-703(P)	8/21/2002	33.5	1 U	1 U	1 U	1 U	20 U	20 U	1 U
TW-704(P)	TW-704(P)	8/21/2002	6.07	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-706(P)	TW-706(P)	8/21/2002	40.8	2.5 U	2.5 U	2.5 U	2.5 U	50 U	50 U	2.5 U
TW-707(P)	TW-707(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-708(P)	BT-708(P)	8/20/2002	5 U							

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002	5 U							
TW-709(P)	TW-709(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-710(P)	TW-710(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-711(P)	BT-711(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-711(P)	TW-711(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-712(P)	TW-712(P)	8/21/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-714(P)	TW-714(P)	8/21/2002	115							
TW-716(P)	TW-716(P)	8/20/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-717(P)	TW-717(P)	8/20/2002	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U
TW-718(P)	TW-718(P)	8/21/2002	0.5 U							
TW-719(P)	BT-719(P)	8/23/2002	0.5 U							
TW-719(P)	TW-719(P)	8/23/2002	0.5 U							
TW-720(P)	TW-720(P)	8/23/2002	119							
TW-800(Q)	TW-800(Q)-10.5	8/27/2002								
TW-801(Q)	TW801(Q)-10	8/26/2002								
TW-803(Q)	TW-803(Q)-9	8/26/2002								
TW-805(Q)	TW-805(Q)-10	8/26/2002								
TW-806(Q)	TW-806 (Q)-11	8/28/2002								
TW-810(Q)	TW-810 (Q)-8	8/28/2002								
TW-814(Q)	TW814(Q)9	8/27/2002								
TW-816(Q)	TW-816(Q)-12	8/27/2002								
TW-818(Q)	TW-818 (Q)-11	8/28/2002								
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002								
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002								
TW-820(Q)	TW-820 (Q)-10	8/29/2002								
TW-822(Q)	TW-822 (Q)-9	8/29/2002								
TW-824(Q)	TW-824(Q)-9	8/28/2002								
TW-825(Q)	TW-825(Q)-8.5	8/27/2002								
TW-826(Q)	TW-826(Q)-9	8/27/2002								
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002								
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002								
TW-833(Q)	TW-833 (Q)-10.	8/28/2002								
TW-900(S)	SB-900(TW)	8/26/2002								
TW-901(S)	SB-901(TW)	8/26/2002	147							
TW-901(S)	SB-901(TW)	8/26/2002								
TW-902(S)	SB-902(TW)	8/26/2002								
TW-903(S)	SB-903(TW)	8/26/2002	17.4							

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chloroethyl vinyl ether	2-Chlorotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-903(S)	SB-903(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002	0.35 J							
TW-904(S)	SB-904(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002	7.17 J							
TW-905(S)	SB-905(TW)	8/26/2002								
TW-906(S)	SB-906(TW)	8/27/2002	3.89							
TW-906(S)	SB-906(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002	0.5 U							
TW-908(S)	SB-908(TW)	8/27/2002								
TW-909(S)	SB-909(TW)	8/27/2002								
TW-910(S)	SB-910(TW)	8/26/2002								
TW-911(S)	SB-911(TW)	8/27/2002	0.5 U							
TW-911(S)	SB-911(TW)	8/27/2002								

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002								0.5 U	
MW-1(F)	MW-1-082302	8/23/2002								0.5 U	
MW-1(F)	MW-1(F)	10/22/2003								0.41 J	
MW-1(F)	MW-1 (F)	1/15/2004								2.79	
MW-1(F)	MW-1(F)	4/15/2004								0.2 U	
MW-1(F)	MW-1 (F)	7/20/2004								0.23	
MW-2(M)	MW-2(M)	6/19/2003								48.4	
MW-2(M)	MW-2 (M)	10/15/2003								125	
MW-2(M)	MW-2 (M)	1/12/2004								10.6	
MW-2(M)	MW-2(M)	4/14/2004								28.8	
MW-2(M)	MW-2 (M)	7/22/2004								15.5	
MW-6(M)	MW-6(M)	6/19/2003								0.5 U	
MW-6(M)	MW-6(M)	10/22/2003								0.5 U	
MW-6(M)	MW-6 (M)	1/12/2004								0.5 U	
MW-6(M)	MW-6 (M)	4/13/2004								0.2 U	
MW-6(M)	MW-6 (M)	7/19/2004								0.2 U	
MW-7(M)	BM-7(M)	6/19/2003								0.5 U	
MW-7(M)	MW-7(M)	6/19/2003								0.5 U	
MW-7(M)	MW-7(M)	10/13/2003								0.5 U	
MW-7(M)	MW-7 (M)	1/12/2004								0.5 U	
MW-7(M)	MW-7 (M)	4/12/2004								0.2 U	
MW-7(M)	MW-7 (M)	7/19/2004								0.2 U	
MW-10(M)	MW-10(M)	6/19/2003								21	
MW-10(M)	MW-10 (M)	10/15/2003								319	
MW-10(M)	MW-10 (M)	1/13/2004								50.3	
MW-10(M)	MW-10 (M)	4/13/2004								52.4	
MW-10(M)	MW-10 (M)	7/19/2004								34.4	
MW-11(M)	MW-11(M)	6/19/2003								0.5 U	
MW-11(M)	MW-11 (M)	10/15/2003								11.6	
MW-11(M)	MW-11 (M)	1/13/2004								8.86	
MW-11(M)	MW-11 (M)	4/13/2004								0.35	
MW-11(M)	MW-11 (M)	7/21/2004								0.44	
MW-12(A)	MW-12(A)	10/22/2003								0.19 J	
MW-12(A)	MW-12 (A)	1/15/2004								0.5 U	

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004								0.2 U	
MW-12(A)	MW-12 (A)	7/22/2004								0.2 U	
MW-13(A)	MW-13(A)	10/22/2003								259	
MW-13(A)	MW-13 (A)	1/15/2004								750	
MW-13(A)	MW-13(A)	4/16/2004								564	
MW-13(A)	MW-13 (A)	7/22/2004								256	
MW-14(A)	MW-14(A)	10/21/2003								0.77	
MW-14(A)	MW-14 (A)	1/15/2004								0.65	
MW-14(A)	MW-14(A)	4/16/2004								0.2 U	
MW-14(A)	MW-14 (A)	7/23/2004								0.2 U	
MW-15(A)	MW-15(A)	10/20/2003								127	
MW-16(A)	MW-16(A)	10/20/2003								11.4	
MW-16(A)	MW-16(A)	1/19/2004								2.32	
MW-16(A)	MW-16(A)	4/15/2004								11.7	
MW-16(A)	MW-16 (A)	7/22/2004								7.26	
MW-17 (A)	BM-17 (A)	7/22/2004								1.18	
MW-17(A)	MW-17 (A)	10/17/2003								9.19	
MW-17(A)	BM-17(A)	1/19/2004								2.5	
MW-17(A)	MW-17(A)	1/19/2004								2.52	
MW-17(A)	MW-17(A)	4/15/2004								2.69	
MW-17(A)	MW-17 (A)	7/22/2004								1.22	
MW-18(A)	MW-18(A)	10/21/2003								273	
MW-18(A)	MW-18(A)	1/19/2004								138	
MW-18(A)	MW-18(A)	4/15/2004								3.2	
MW-18(A)	MW-18 (A)	7/21/2004								44.1	
MW-19(A)	BM-19(A)	10/20/2003								0.5 U	
MW-19(A)	MW-19(A)	10/20/2003								0.5 U	
MW-19(A)	MW-19 (A)	1/13/2004								0.5 U	
MW-19(A)	MW-19(A)	4/15/2004								0.2 U	
MW-19(A)	BM-19 (A)	7/20/2004								0.46	
MW-19(A)	MW-19 (A)	7/20/2004								0.31	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003								16.9	
MW-20(A)	MW-20 (A)	1/13/2004								3.64	
MW-20(A)	MW-20(A)	4/15/2004								1.77	
MW-20(A)	MW-20 (A)	7/20/2004								2.98	
MW-21(A)	MW-21(A)	10/20/2003								0.5 U	
MW-21(A)	BM-21 (A)	1/13/2004								0.25	
MW-21(A)	MW-21 (A)	1/13/2004								0.31	
MW-21(A)	MW-21(A)	4/16/2004								0.7	
MW-21(A)	MW-21 (A)	7/20/2004								0.26	
MW-22(A)	MW-22 (A)	10/16/2003								19.4	
MW-22(A)	MW-22(A)	1/19/2004								0.5 U	
MW-22(A)	MW-22(A)	4/15/2004								0.2 U	
MW-22(A)	MW-22 (A)	7/20/2004								0.26	
MW-23(A)	MW-23(A)	10/20/2003								0.5 U	
MW-23(A)	MW-23 (A)	1/15/2004								0.5 U	
MW-23(A)	BM-23(A)	4/15/2004								2.75	
MW-23(A)	MW-23(A)	4/15/2004								3.04	
MW-23(A)	MW-23 (A)	7/20/2004								0.2 U	
MW-24(A)	MW-24(A)	10/21/2003								0.62	
MW-24(A)	MW-24 (A)	1/15/2004								2.7	
MW-24(A)	MW-24(A)	4/14/2004								0.16	
MW-24(A)	MW-24 (A)	7/22/2004								0.55	
MW-26(A)	MW-26 (A)	10/17/2003								3.05	
MW-26(A)	MW-26 (A)	1/15/2004								3	
MW-26(A)	MW-26(A)	4/14/2004								4 U	
MW-26(A)	MW-26 (A)	7/22/2004								4 U	
MW-27(A)	MW-27(A)	10/21/2003								0.98	
MW-27(A)	MW-27 (A)	1/14/2004								0.5 U	
MW-27(A)	MW-27 (A)	4/14/2004								0.2 U	
MW-27(A)	MW-27 (A)	7/22/2004								0.2 U	
MW-28(A)	MW-28 (A)	10/17/2003								208	
MW-28(A)	MW-28(A)	1/19/2004								702	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004								179	
MW-28(A)	MW-28 (A)	7/23/2004								72.2	
MW-29(A)	MW-29(A)	10/21/2003								482	
MW-29(A)	MW-29(A)	1/19/2004								330	
MW-29(A)	MW-29(A)	4/16/2004								148	
MW-29(A)	MW-29 (A)	7/22/2004								380	
MW-30(A)	MW-30 (A)	10/16/2003								262	
MW-30(A)	MW-30 (A)	1/16/2004								341	
MW-30(A)	MW-30 (A)	4/13/2004								533	
MW-30(A)	MW-30 (A)	7/20/2004								407	
MW-31(A)	BM-31 (A)	10/16/2003								1260	
MW-31(A)	MW-31 (A)	10/16/2003								1170	
MW-31(A)	MW-31 (A)	1/12/2004								1390	
MW-31(A)	BM-31 (A)	4/13/2004								538	
MW-31(A)	MW-31 (A)	4/13/2004								574	
MW-31(A)	MW-31 (A)	7/20/2004								1020	
MW-32(A)	MW-32(A)	10/14/2003								0.5 U	
MW-32(A)	MW-32 (A)	1/12/2004								0.5 U	
MW-32(A)	MW-32 (A)	4/13/2004								0.2 U	
MW-32(A)	MW-32 (A)	7/19/2004								0.2 U	
MW-33(A)	MW-33(A)	10/14/2003								3.49	
MW-33(A)	MW-33 (A)	1/12/2004								15	
MW-33(A)	MW-33 (A)	4/13/2004								12.1	
MW-33(A)	MW-33 (A)	7/19/2004								3.47	
MW-34(A)	MW-34(A)	10/14/2003								0.5 U	
MW-34(A)	MW-34 (A)	1/13/2004								0.5 U	
MW-34(A)	MW-34 (A)	4/14/2004								0.2 U	
MW-34(A)	MW-34 (A)	7/20/2004								0.2 U	
MW-35(A)	MW-35 (A)	10/16/2003								0.5 U	
MW-35(A)	MW-35 (A)	1/16/2004								0.5 U	
MW-35(A)	MW-35 (A)	4/13/2004								0.2 U	
MW-35(A)	MW-35 (A)	7/20/2004								0.2 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003								0.5 U	
MW-36(A)	MW-36 (A)	1/14/2004								0.5 U	
MW-36(A)	MW-36 (A)	4/14/2004								0.2 U	
MW-36(A)	MW-36 (A)	7/22/2004								0.2 U	
MW-37(A)	MW-37 (A)	10/17/2003								0.16 J	
MW-38(A)	MW-38(A)	10/21/2003								0.5 U	
MW-38(A)	MW-38 (A)	1/14/2004								0.5 U	
MW-38(A)	MW-38 (A)	4/14/2004								0.2 U	
MW-38(A)	MW-38 (A)	7/22/2004								0.2 U	
MW-39(A)	MW-39 (A)	10/16/2003								3.98	
MW-39(A)	MW-39 (A)	1/16/2004								3.37	
MW-39(A)	MW-39 (A)	4/14/2004								3.4	
MW-39(A)	MW-39 (A)	7/21/2004								1.7	
MW-39(A)	Trip Blank	7/21/2004								0.2 U	
MW-39(A)	Trip Blank	7/22/2004								0.2 U	
MW-40(A)	MW-40 (A)	10/17/2003								81.2	
MW-40(A)	MW-40(A)	1/20/2004								7.8 J	
MW-40(A)	MW-40(A)	4/16/2004								83.5	
MW-41(A)	MW-41(A)	10/14/2003								355	
MW-42(A)	MW-42 (A)	10/15/2003								3020	
MW-43(A)	MW-43(A)	10/13/2003								0.5 U	
MW-43(A)	MW-43 (A)	1/12/2004								10.9	
MW-43(A)	MW-43 (A)	4/13/2004								0.2 U	
MW-43(A)	MW-43 (A)	7/21/2004								0.2 U	
MW-44(A)	MW-44 (A)	10/17/2003								898	
MW-45(A)	MW-45 (A)	10/16/2003								0.16 J	
MW-45(A)	MW-45 (A)	1/16/2004								0.5 U	
MW-45(A)	MW-45 (A)	4/14/2004								0.2 U	
MW-45(A)	MW-45 (A)	7/21/2004								0.2 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003								0.5 U	
MW-46(A)	MW-46(A)	1/14/2004								0.5 U	
MW-46(A)	MW-46 (A)	4/12/2004								0.2 U	
MW-46(A)	MW-46 (A)	7/21/2004								0.2 U	
MW-47(A)	MW-47(A)	10/13/2003								0.5 U	
MW-47(A)	MW-47 (A)	1/14/2004								0.21	
MW-47(A)	MW-47 (A)	4/12/2004								0.2 U	
MW-47(A)	MW-47 (A)	7/21/2004								0.2 U	
MW-48(A)	MW-48(A)	10/14/2003								0.5 U	
MW-48(A)	MW-48 (A)	1/14/2004								0.5 U	
MW-48(A)	MW-48 (A)	4/12/2004								0.2 U	
MW-48(A)	MW-48 (A)	7/21/2004								0.2 U	
R-1(M)	R-1(M)	10/22/2003								0.23 J	
TW-100(C)	SB100(C)W	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-103(C)	SB103(C)W	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-104(C)	SB104(C)W	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-200(C)	SB200(C)W	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-201(C)	SB201(C)W	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-202(C)	SB202(C)W	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-203(C)	SB203(C)W	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-204(C)	SB204(C)W	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-204(C)	SB204(C)W2	8/22/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-304(D)	SB-304-D-9.0	8/19/2002								174	
TW-304(D)	SB-304-D-9.0 D	8/19/2002								151	
TW-305(D)	SB-305-D-9.0	8/19/2002								489	
TW-306(D)	SB-306-D-9.0	8/19/2002								372	
TW-307(D)	SB-307-D-9.0	8/19/2002								934	
TW-309(D)	SB-309-D-9.0	8/19/2002								19.2	
TW-311(D)	SB-311-D-10.0	8/19/2002								24.2	
TW-312(D)	SB-312-D-10.0	8/19/2002								0.5 U	
TW-313(D)	TW-313-D-22.0	8/20/2002								255	
TW-314(D)	TW-314-D-22.0	8/20/2002								68.3	

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002								0.71	
TW-319(D)	SB-319-D-14.0	8/19/2002								0.5 U	
TW-400(F)	TW-400(F)	8/22/2002								0.5 U	
TW-401(F)	TW-401(F)	8/23/2002								0.5 U	
TW-402(F)	TW-402(F)	8/23/2002								0.5 U	
TW-405(F)	TW-405(F)	8/22/2002								4.23	
TW-406(F)	TW-406(F)	8/22/2002								14.2	
TW-407(F)	TW-407(F)	8/22/2002								11.6	
TW-408(F)	TW-408(F)	8/22/2002								0.853	
TW-409(F)	TW-409(F)	8/22/2002								0.5 U	
TW-600(N)	TW-600(N)	9/13/2002								2.5 U	
TW-601(N)	TW-601(N)	9/13/2002								1 U	
TW-602(N)	BT-602(N)	9/13/2002								0.5 U	
TW-602(N)	TW-602(N)	9/13/2002								0.5 U	
TW-603(N)	TW-603(N)	9/13/2002								0.5 U	
TW-608(N)	TW-608 (N)	9/13/2002								0.5 U	
TW-612(N)	TW-612(N)	9/12/2002								2610	
TW-612(N)	TW-612(N)	9/12/2002								3060	
TW-616(N)	TW-616(N)	9/12/2002								0.5 U	
TW-616(N)	TW-616(N)	9/12/2002								0.5 U	
TW-619(N)	TW-619(N)	9/12/2002								3.4	
TW-619(N)	TW-619(N)	9/12/2002								8.18	
TW-623(N)	TW-623(N)	9/12/2002								0.5 U	
TW-623(N)	TW-623(N)	9/12/2002								6.04	
TW-624(N)	TW-624(N)	9/12/2002	10 U	5 U	5 U	0.5 U	8.94	5 U	10 U	0.4 U	5 U
TW-624(N)	TW-624(N)	9/12/2002									
TW-625(N)	BT-625(N)	9/12/2002								0.5 U	
TW-625(N)	TW-625(N)	9/12/2002								0.5 U	
TW-700(P)	TW-700(P)	8/21/2002	50 U			2.5 U	15.1	25 U	50 U	2 U	
TW-701(P)	TW-701(P)	8/20/2002	100 U			5 U	5 U	50 U	100 U	40.3	
TW-702(P)	TW-702(P)	8/21/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-703(P)	TW-703(P)	8/21/2002	20 U			1 U	14.7	10 U	20 U	3.3	
TW-704(P)	TW-704(P)	8/21/2002	10 U			0.5 U	2.86	5 U	10 U	0.16 J	
TW-706(P)	TW-706(P)	8/21/2002	50 U			2.5 U	2.5 U	25 U	50 U	106	
TW-707(P)	TW-707(P)	8/21/2002	10 U			0.5 U	0.5 U	5 U	10 U	1.41	
TW-708(P)	BT-708(P)	8/20/2002								1230	

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Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002								976	
TW-709(P)	TW-709(P)	8/21/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-710(P)	TW-710(P)	8/21/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-711(P)	BT-711(P)	8/21/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-711(P)	TW-711(P)	8/21/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-712(P)	TW-712(P)	8/21/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-714(P)	TW-714(P)	8/21/2002								83.8	
TW-716(P)	TW-716(P)	8/20/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-717(P)	TW-717(P)	8/20/2002	10 U			0.5 U	0.5 U	5 U	10 U	0.4 U	
TW-718(P)	TW-718(P)	8/21/2002								0.5 U	
TW-719(P)	BT-719(P)	8/23/2002								0.5 U	
TW-719(P)	TW-719(P)	8/23/2002								0.5 U	
TW-720(P)	TW-720(P)	8/23/2002								28	
TW-800(Q)	TW-800(Q)-10.5	8/27/2002								0.5 U	
TW-801(Q)	TW801(Q)-10	8/26/2002								0.5 U	
TW-803(Q)	TW-803(Q)-9	8/26/2002								0.5 U	
TW-805(Q)	TW-805(Q)-10	8/26/2002								1.98	
TW-806(Q)	TW-806 (Q)-11	8/28/2002								20.3	
TW-810(Q)	TW-810 (Q)-8	8/28/2002								0.5 U	
TW-814(Q)	TW814(Q)9	8/27/2002								0.5 U	
TW-816(Q)	TW-816(Q)-12	8/27/2002								0.5 U	
TW-818(Q)	TW-818 (Q)-11	8/28/2002								0.5 U	
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002								8	
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002								13.7	
TW-820(Q)	TW-820 (Q)-10	8/29/2002								11	
TW-822(Q)	TW-822 (Q)-9	8/29/2002								31.3 J	
TW-824(Q)	TW-824(Q)-9	8/28/2002								2.4	
TW-825(Q)	TW-825(Q)-8.5	8/27/2002								0.5 U	
TW-826(Q)	TW-826(Q)-9	8/27/2002								0.5 U	
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002								0.506	
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002								0.5 U	
TW-833(Q)	TW-833 (Q)-10.	8/28/2002								0.5 U	
TW-900(S)	SB-900(TW)	8/26/2002								2.72	
TW-901(S)	SB-901(TW)	8/26/2002								5.92	
TW-901(S)	SB-901(TW)	8/26/2002								2.5 U	
TW-902(S)	SB-902(TW)	8/26/2002								0.5 U	
TW-903(S)	SB-903(TW)	8/26/2002								0.5 U	

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Astoria Area-Wide Petroleum Site
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Locator ID	Sample ID	Sample Date	2-Hexanone	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone	Acetone	Benzene	Benzyl butyl phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-903(S)	SB-903(TW)	8/26/2002								0.5 U	
TW-904(S)	SB-904(TW)	8/26/2002								0.5 U	
TW-904(S)	SB-904(TW)	8/26/2002								0.5 U	
TW-905(S)	SB-905(TW)	8/26/2002								0.5 U	
TW-905(S)	SB-905(TW)	8/26/2002								2.5 U	
TW-906(S)	SB-906(TW)	8/27/2002								0.5 U	
TW-906(S)	SB-906(TW)	8/27/2002								0.5 U	
TW-908(S)	SB-908(TW)	8/27/2002								0.5 U	
TW-908(S)	SB-908(TW)	8/27/2002								0.5 U	
TW-909(S)	SB-909(TW)	8/27/2002								0.5 U	
TW-910(S)	SB-910(TW)	8/26/2002								0.5 U	
TW-911(S)	SB-911(TW)	8/27/2002								0.718	
TW-911(S)	SB-911(TW)	8/27/2002								0.34 J	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002									
MW-1(F)	MW-1-082302	8/23/2002									
MW-1(F)	MW-1(F)	10/22/2003									
MW-1(F)	MW-1 (F)	1/15/2004									
MW-1(F)	MW-1(F)	4/15/2004									
MW-1(F)	MW-1 (F)	7/20/2004									
MW-2(M)	MW-2(M)	6/19/2003									
MW-2(M)	MW-2 (M)	10/15/2003									
MW-2(M)	MW-2 (M)	1/12/2004									
MW-2(M)	MW-2(M)	4/14/2004									
MW-2(M)	MW-2 (M)	7/22/2004									
MW-6(M)	MW-6(M)	6/19/2003									
MW-6(M)	MW-6(M)	10/22/2003									
MW-6(M)	MW-6 (M)	1/12/2004									
MW-6(M)	MW-6 (M)	4/13/2004									
MW-6(M)	MW-6 (M)	7/19/2004									
MW-7(M)	BM-7(M)	6/19/2003									
MW-7(M)	MW-7(M)	6/19/2003									
MW-7(M)	MW-7(M)	10/13/2003									
MW-7(M)	MW-7 (M)	1/12/2004									
MW-7(M)	MW-7 (M)	4/12/2004									
MW-7(M)	MW-7 (M)	7/19/2004									
MW-10(M)	MW-10(M)	6/19/2003									
MW-10(M)	MW-10 (M)	10/15/2003									
MW-10(M)	MW-10 (M)	1/13/2004									
MW-10(M)	MW-10 (M)	4/13/2004									
MW-10(M)	MW-10 (M)	7/19/2004									
MW-11(M)	MW-11(M)	6/19/2003									
MW-11(M)	MW-11 (M)	10/15/2003									
MW-11(M)	MW-11 (M)	1/13/2004									
MW-11(M)	MW-11 (M)	4/13/2004									
MW-11(M)	MW-11 (M)	7/21/2004									
MW-12(A)	MW-12(A)	10/22/2003									
MW-12(A)	MW-12 (A)	1/15/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004									
MW-12(A)	MW-12 (A)	7/22/2004									
MW-13(A)	MW-13(A)	10/22/2003									
MW-13(A)	MW-13 (A)	1/15/2004									
MW-13(A)	MW-13(A)	4/16/2004									
MW-13(A)	MW-13 (A)	7/22/2004									
MW-14(A)	MW-14(A)	10/21/2003									
MW-14(A)	MW-14 (A)	1/15/2004									
MW-14(A)	MW-14(A)	4/16/2004									
MW-14(A)	MW-14 (A)	7/23/2004									
MW-15(A)	MW-15(A)	10/20/2003									
MW-16(A)	MW-16(A)	10/20/2003									
MW-16(A)	MW-16(A)	1/19/2004									
MW-16(A)	MW-16(A)	4/15/2004									
MW-16(A)	MW-16 (A)	7/22/2004									
MW-17 (A)	BM-17 (A)	7/22/2004									
MW-17(A)	MW-17 (A)	10/17/2003									
MW-17(A)	BM-17(A)	1/19/2004									
MW-17(A)	MW-17(A)	1/19/2004									
MW-17(A)	MW-17(A)	4/15/2004									
MW-17(A)	MW-17 (A)	7/22/2004									
MW-18(A)	MW-18(A)	10/21/2003									
MW-18(A)	MW-18(A)	1/19/2004									
MW-18(A)	MW-18(A)	4/15/2004									
MW-18(A)	MW-18 (A)	7/21/2004									
MW-19(A)	BM-19(A)	10/20/2003									
MW-19(A)	MW-19(A)	10/20/2003									
MW-19(A)	MW-19 (A)	1/13/2004									
MW-19(A)	MW-19(A)	4/15/2004									
MW-19(A)	BM-19 (A)	7/20/2004									
MW-19(A)	MW-19 (A)	7/20/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
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Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003									
MW-20(A)	MW-20 (A)	1/13/2004									
MW-20(A)	MW-20(A)	4/15/2004									
MW-20(A)	MW-20 (A)	7/20/2004									
MW-21(A)	MW-21(A)	10/20/2003									
MW-21(A)	BM-21 (A)	1/13/2004									
MW-21(A)	MW-21 (A)	1/13/2004									
MW-21(A)	MW-21(A)	4/16/2004									
MW-21(A)	MW-21 (A)	7/20/2004									
MW-22(A)	MW-22 (A)	10/16/2003									
MW-22(A)	MW-22(A)	1/19/2004									
MW-22(A)	MW-22(A)	4/15/2004									
MW-22(A)	MW-22 (A)	7/20/2004									
MW-23(A)	MW-23(A)	10/20/2003									
MW-23(A)	MW-23 (A)	1/15/2004									
MW-23(A)	BM-23(A)	4/15/2004									
MW-23(A)	MW-23(A)	4/15/2004									
MW-23(A)	MW-23 (A)	7/20/2004									
MW-24(A)	MW-24(A)	10/21/2003									
MW-24(A)	MW-24 (A)	1/15/2004									
MW-24(A)	MW-24(A)	4/14/2004									
MW-24(A)	MW-24 (A)	7/22/2004									
MW-26(A)	MW-26 (A)	10/17/2003									
MW-26(A)	MW-26 (A)	1/15/2004									
MW-26(A)	MW-26(A)	4/14/2004									
MW-26(A)	MW-26 (A)	7/22/2004									
MW-27(A)	MW-27(A)	10/21/2003									
MW-27(A)	MW-27 (A)	1/14/2004									
MW-27(A)	MW-27 (A)	4/14/2004									
MW-27(A)	MW-27 (A)	7/22/2004									
MW-28(A)	MW-28 (A)	10/17/2003									
MW-28(A)	MW-28(A)	1/19/2004									

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004									
MW-28(A)	MW-28 (A)	7/23/2004									
MW-29(A)	MW-29(A)	10/21/2003									
MW-29(A)	MW-29(A)	1/19/2004									
MW-29(A)	MW-29(A)	4/16/2004									
MW-29(A)	MW-29 (A)	7/22/2004									
MW-30(A)	MW-30 (A)	10/16/2003									
MW-30(A)	MW-30 (A)	1/16/2004									
MW-30(A)	MW-30 (A)	4/13/2004									
MW-30(A)	MW-30 (A)	7/20/2004									
MW-31(A)	BM-31 (A)	10/16/2003									
MW-31(A)	MW-31 (A)	10/16/2003									
MW-31(A)	MW-31 (A)	1/12/2004									
MW-31(A)	BM-31 (A)	4/13/2004									
MW-31(A)	MW-31 (A)	4/13/2004									
MW-31(A)	MW-31 (A)	7/20/2004									
MW-32(A)	MW-32(A)	10/14/2003									
MW-32(A)	MW-32 (A)	1/12/2004									
MW-32(A)	MW-32 (A)	4/13/2004									
MW-32(A)	MW-32 (A)	7/19/2004									
MW-33(A)	MW-33(A)	10/14/2003									
MW-33(A)	MW-33 (A)	1/12/2004									
MW-33(A)	MW-33 (A)	4/13/2004									
MW-33(A)	MW-33 (A)	7/19/2004									
MW-34(A)	MW-34(A)	10/14/2003									
MW-34(A)	MW-34 (A)	1/13/2004									
MW-34(A)	MW-34 (A)	4/14/2004									
MW-34(A)	MW-34 (A)	7/20/2004									
MW-35(A)	MW-35 (A)	10/16/2003									
MW-35(A)	MW-35 (A)	1/16/2004									
MW-35(A)	MW-35 (A)	4/13/2004									
MW-35(A)	MW-35 (A)	7/20/2004									

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003									
MW-36(A)	MW-36 (A)	1/14/2004									
MW-36(A)	MW-36 (A)	4/14/2004									
MW-36(A)	MW-36 (A)	7/22/2004									
MW-37(A)	MW-37 (A)	10/17/2003									
MW-38(A)	MW-38(A)	10/21/2003									
MW-38(A)	MW-38 (A)	1/14/2004									
MW-38(A)	MW-38 (A)	4/14/2004									
MW-38(A)	MW-38 (A)	7/22/2004									
MW-39(A)	MW-39 (A)	10/16/2003									
MW-39(A)	MW-39 (A)	1/16/2004									
MW-39(A)	MW-39 (A)	4/14/2004									
MW-39(A)	MW-39 (A)	7/21/2004									
MW-39(A)	Trip Blank	7/21/2004									
MW-39(A)	Trip Blank	7/22/2004									
MW-40(A)	MW-40 (A)	10/17/2003									
MW-40(A)	MW-40(A)	1/20/2004									
MW-40(A)	MW-40(A)	4/16/2004									
MW-41(A)	MW-41(A)	10/14/2003									
MW-42(A)	MW-42 (A)	10/15/2003									
MW-43(A)	MW-43(A)	10/13/2003									
MW-43(A)	MW-43 (A)	1/12/2004									
MW-43(A)	MW-43 (A)	4/13/2004									
MW-43(A)	MW-43 (A)	7/21/2004									
MW-44(A)	MW-44 (A)	10/17/2003									
MW-45(A)	MW-45 (A)	10/16/2003									
MW-45(A)	MW-45 (A)	1/16/2004									
MW-45(A)	MW-45 (A)	4/14/2004									
MW-45(A)	MW-45 (A)	7/21/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003									
MW-46(A)	MW-46(A)	1/14/2004									
MW-46(A)	MW-46 (A)	4/12/2004									
MW-46(A)	MW-46 (A)	7/21/2004									
MW-47(A)	MW-47(A)	10/13/2003									
MW-47(A)	MW-47 (A)	1/14/2004									
MW-47(A)	MW-47 (A)	4/12/2004									
MW-47(A)	MW-47 (A)	7/21/2004									
MW-48(A)	MW-48(A)	10/14/2003									
MW-48(A)	MW-48 (A)	1/14/2004									
MW-48(A)	MW-48 (A)	4/12/2004									
MW-48(A)	MW-48 (A)	7/21/2004									
R-1(M)	R-1(M)	10/22/2003									
TW-100(C)	SB100(C)W	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-103(C)	SB103(C)W	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-104(C)	SB104(C)W	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-200(C)	SB200(C)W	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-201(C)	SB201(C)W	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-202(C)	SB202(C)W	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-203(C)	SB203(C)W	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-204(C)	SB204(C)W	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-204(C)	SB204(C)W2	8/22/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-304(D)	SB-304-D-9.0	8/19/2002									
TW-304(D)	SB-304-D-9.0 D	8/19/2002									
TW-305(D)	SB-305-D-9.0	8/19/2002									
TW-306(D)	SB-306-D-9.0	8/19/2002									
TW-307(D)	SB-307-D-9.0	8/19/2002									
TW-309(D)	SB-309-D-9.0	8/19/2002									
TW-311(D)	SB-311-D-10.0	8/19/2002									
TW-312(D)	SB-312-D-10.0	8/19/2002									
TW-313(D)	TW-313-D-22.0	8/20/2002									
TW-314(D)	TW-314-D-22.0	8/20/2002									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002									
TW-319(D)	SB-319-D-14.0	8/19/2002									
TW-400(F)	TW-400(F)	8/22/2002									
TW-401(F)	TW-401(F)	8/23/2002									
TW-402(F)	TW-402(F)	8/23/2002									
TW-405(F)	TW-405(F)	8/22/2002									
TW-406(F)	TW-406(F)	8/22/2002									
TW-407(F)	TW-407(F)	8/22/2002									
TW-408(F)	TW-408(F)	8/22/2002									
TW-409(F)	TW-409(F)	8/22/2002									
TW-600(N)	TW-600(N)	9/13/2002									
TW-601(N)	TW-601(N)	9/13/2002									
TW-602(N)	BT-602(N)	9/13/2002									
TW-602(N)	TW-602(N)	9/13/2002									
TW-603(N)	TW-603(N)	9/13/2002									
TW-608(N)	TW-608 (N)	9/13/2002									
TW-612(N)	TW-612(N)	9/12/2002									
TW-612(N)	TW-612(N)	9/12/2002									
TW-616(N)	TW-616(N)	9/12/2002									
TW-616(N)	TW-616(N)	9/12/2002									
TW-619(N)	TW-619(N)	9/12/2002									
TW-619(N)	TW-619(N)	9/12/2002									
TW-623(N)	TW-623(N)	9/12/2002									
TW-623(N)	TW-623(N)	9/12/2002									
TW-624(N)	TW-624(N)	9/12/2002	10 U	5 U	0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-624(N)	TW-624(N)	9/12/2002									
TW-625(N)	BT-625(N)	9/12/2002									
TW-625(N)	TW-625(N)	9/12/2002									
TW-700(P)	TW-700(P)	8/21/2002			2.5 U	2.5 U	2.5 U	5 U	25 U	50 U	2.5 U
TW-701(P)	TW-701(P)	8/20/2002			5 U	5 U	5 U	10 U	50 U	100 U	5 U
TW-702(P)	TW-702(P)	8/21/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-703(P)	TW-703(P)	8/21/2002			1 U	1 U	1 U	2 U	10 U	20 U	1 U
TW-704(P)	TW-704(P)	8/21/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-706(P)	TW-706(P)	8/21/2002			2.5 U	2.5 U	2.5 U	5 U	25 U	50 U	2.5 U
TW-707(P)	TW-707(P)	8/21/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-708(P)	BT-708(P)	8/20/2002									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002									
TW-709(P)	TW-709(P)	8/21/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-710(P)	TW-710(P)	8/21/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-711(P)	BT-711(P)	8/21/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-711(P)	TW-711(P)	8/21/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-712(P)	TW-712(P)	8/21/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-714(P)	TW-714(P)	8/21/2002									
TW-716(P)	TW-716(P)	8/20/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-717(P)	TW-717(P)	8/20/2002			0.5 U	0.5 U	0.5 U	1 U	5 U	10 U	0.5 U
TW-718(P)	TW-718(P)	8/21/2002									
TW-719(P)	BT-719(P)	8/23/2002									
TW-719(P)	TW-719(P)	8/23/2002									
TW-720(P)	TW-720(P)	8/23/2002									
TW-800(Q)	TW-800(Q)-10.5	8/27/2002									
TW-801(Q)	TW801(Q)-10	8/26/2002									
TW-803(Q)	TW-803(Q)-9	8/26/2002									
TW-805(Q)	TW-805(Q)-10	8/26/2002									
TW-806(Q)	TW-806 (Q)-11	8/28/2002									
TW-810(Q)	TW-810 (Q)-8	8/28/2002									
TW-814(Q)	TW814(Q)9	8/27/2002									
TW-816(Q)	TW-816(Q)-12	8/27/2002									
TW-818(Q)	TW-818 (Q)-11	8/28/2002									
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002									
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002									
TW-820(Q)	TW-820 (Q)-10	8/29/2002									
TW-822(Q)	TW-822 (Q)-9	8/29/2002									
TW-824(Q)	TW-824(Q)-9	8/28/2002									
TW-825(Q)	TW-825(Q)-8.5	8/27/2002									
TW-826(Q)	TW-826(Q)-9	8/27/2002									
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002									
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002									
TW-833(Q)	TW-833 (Q)-10.	8/28/2002									
TW-900(S)	SB-900(TW)	8/26/2002									
TW-901(S)	SB-901(TW)	8/26/2002									
TW-901(S)	SB-901(TW)	8/26/2002									
TW-902(S)	SB-902(TW)	8/26/2002									
TW-903(S)	SB-903(TW)	8/26/2002									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	bis-(2-chloroethoxy) methane	bis-(2-Chloroethyl) ether	Bromobenzene	Bromochloro methane	Bromodichloro methane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-903(S)	SB-903(TW)	8/26/2002									
TW-904(S)	SB-904(TW)	8/26/2002									
TW-904(S)	SB-904(TW)	8/26/2002									
TW-905(S)	SB-905(TW)	8/26/2002									
TW-905(S)	SB-905(TW)	8/26/2002									
TW-906(S)	SB-906(TW)	8/27/2002									
TW-906(S)	SB-906(TW)	8/27/2002									
TW-908(S)	SB-908(TW)	8/27/2002									
TW-908(S)	SB-908(TW)	8/27/2002									
TW-909(S)	SB-909(TW)	8/27/2002									
TW-910(S)	SB-910(TW)	8/26/2002									
TW-911(S)	SB-911(TW)	8/27/2002									
TW-911(S)	SB-911(TW)	8/27/2002									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002									
MW-1(F)	MW-1-082302	8/23/2002									
MW-1(F)	MW-1(F)	10/22/2003									
MW-1(F)	MW-1 (F)	1/15/2004									
MW-1(F)	MW-1(F)	4/15/2004									
MW-1(F)	MW-1 (F)	7/20/2004									
MW-2(M)	MW-2(M)	6/19/2003									
MW-2(M)	MW-2 (M)	10/15/2003									
MW-2(M)	MW-2 (M)	1/12/2004									
MW-2(M)	MW-2(M)	4/14/2004									
MW-2(M)	MW-2 (M)	7/22/2004									
MW-6(M)	MW-6(M)	6/19/2003									
MW-6(M)	MW-6(M)	10/22/2003									
MW-6(M)	MW-6 (M)	1/12/2004									
MW-6(M)	MW-6 (M)	4/13/2004									
MW-6(M)	MW-6 (M)	7/19/2004									
MW-7(M)	BM-7(M)	6/19/2003									
MW-7(M)	MW-7(M)	6/19/2003									
MW-7(M)	MW-7(M)	10/13/2003									
MW-7(M)	MW-7 (M)	1/12/2004									
MW-7(M)	MW-7 (M)	4/12/2004									
MW-7(M)	MW-7 (M)	7/19/2004									
MW-10(M)	MW-10(M)	6/19/2003									
MW-10(M)	MW-10 (M)	10/15/2003									
MW-10(M)	MW-10 (M)	1/13/2004									
MW-10(M)	MW-10 (M)	4/13/2004									
MW-10(M)	MW-10 (M)	7/19/2004									
MW-11(M)	MW-11(M)	6/19/2003									
MW-11(M)	MW-11 (M)	10/15/2003									
MW-11(M)	MW-11 (M)	1/13/2004									
MW-11(M)	MW-11 (M)	4/13/2004									
MW-11(M)	MW-11 (M)	7/21/2004									
MW-12(A)	MW-12(A)	10/22/2003									
MW-12(A)	MW-12 (A)	1/15/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004									
MW-12(A)	MW-12 (A)	7/22/2004									
MW-13(A)	MW-13(A)	10/22/2003									
MW-13(A)	MW-13 (A)	1/15/2004									
MW-13(A)	MW-13(A)	4/16/2004									
MW-13(A)	MW-13 (A)	7/22/2004									
MW-14(A)	MW-14(A)	10/21/2003									
MW-14(A)	MW-14 (A)	1/15/2004									
MW-14(A)	MW-14(A)	4/16/2004									
MW-14(A)	MW-14 (A)	7/23/2004									
MW-15(A)	MW-15(A)	10/20/2003									
MW-16(A)	MW-16(A)	10/20/2003									
MW-16(A)	MW-16(A)	1/19/2004									
MW-16(A)	MW-16(A)	4/15/2004									
MW-16(A)	MW-16 (A)	7/22/2004									
MW-17 (A)	BM-17 (A)	7/22/2004									
MW-17(A)	MW-17 (A)	10/17/2003									
MW-17(A)	BM-17(A)	1/19/2004									
MW-17(A)	MW-17(A)	1/19/2004									
MW-17(A)	MW-17(A)	4/15/2004									
MW-17(A)	MW-17 (A)	7/22/2004									
MW-18(A)	MW-18(A)	10/21/2003									
MW-18(A)	MW-18(A)	1/19/2004									
MW-18(A)	MW-18(A)	4/15/2004									
MW-18(A)	MW-18 (A)	7/21/2004									
MW-19(A)	BM-19(A)	10/20/2003									
MW-19(A)	MW-19(A)	10/20/2003									
MW-19(A)	MW-19 (A)	1/13/2004									
MW-19(A)	MW-19(A)	4/15/2004									
MW-19(A)	BM-19 (A)	7/20/2004									
MW-19(A)	MW-19 (A)	7/20/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003									
MW-20(A)	MW-20 (A)	1/13/2004									
MW-20(A)	MW-20(A)	4/15/2004									
MW-20(A)	MW-20 (A)	7/20/2004									
MW-21(A)	MW-21(A)	10/20/2003									
MW-21(A)	BM-21 (A)	1/13/2004									
MW-21(A)	MW-21 (A)	1/13/2004									
MW-21(A)	MW-21(A)	4/16/2004									
MW-21(A)	MW-21 (A)	7/20/2004									
MW-22(A)	MW-22 (A)	10/16/2003									
MW-22(A)	MW-22(A)	1/19/2004									
MW-22(A)	MW-22(A)	4/15/2004									
MW-22(A)	MW-22 (A)	7/20/2004									
MW-23(A)	MW-23(A)	10/20/2003									
MW-23(A)	MW-23 (A)	1/15/2004									
MW-23(A)	BM-23(A)	4/15/2004									
MW-23(A)	MW-23(A)	4/15/2004									
MW-23(A)	MW-23 (A)	7/20/2004									
MW-24(A)	MW-24(A)	10/21/2003									
MW-24(A)	MW-24 (A)	1/15/2004									
MW-24(A)	MW-24(A)	4/14/2004									
MW-24(A)	MW-24 (A)	7/22/2004									
MW-26(A)	MW-26 (A)	10/17/2003									
MW-26(A)	MW-26 (A)	1/15/2004									
MW-26(A)	MW-26(A)	4/14/2004									
MW-26(A)	MW-26 (A)	7/22/2004									
MW-27(A)	MW-27(A)	10/21/2003									
MW-27(A)	MW-27 (A)	1/14/2004									
MW-27(A)	MW-27 (A)	4/14/2004									
MW-27(A)	MW-27 (A)	7/22/2004									
MW-28(A)	MW-28 (A)	10/17/2003									
MW-28(A)	MW-28(A)	1/19/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004									
MW-28(A)	MW-28 (A)	7/23/2004									
MW-29(A)	MW-29(A)	10/21/2003									
MW-29(A)	MW-29(A)	1/19/2004									
MW-29(A)	MW-29(A)	4/16/2004									
MW-29(A)	MW-29 (A)	7/22/2004									
MW-30(A)	MW-30 (A)	10/16/2003									
MW-30(A)	MW-30 (A)	1/16/2004									
MW-30(A)	MW-30 (A)	4/13/2004									
MW-30(A)	MW-30 (A)	7/20/2004									
MW-31(A)	BM-31 (A)	10/16/2003									
MW-31(A)	MW-31 (A)	10/16/2003									
MW-31(A)	MW-31 (A)	1/12/2004									
MW-31(A)	BM-31 (A)	4/13/2004									
MW-31(A)	MW-31 (A)	4/13/2004									
MW-31(A)	MW-31 (A)	7/20/2004									
MW-32(A)	MW-32(A)	10/14/2003									
MW-32(A)	MW-32 (A)	1/12/2004									
MW-32(A)	MW-32 (A)	4/13/2004									
MW-32(A)	MW-32 (A)	7/19/2004									
MW-33(A)	MW-33(A)	10/14/2003									
MW-33(A)	MW-33 (A)	1/12/2004									
MW-33(A)	MW-33 (A)	4/13/2004									
MW-33(A)	MW-33 (A)	7/19/2004									
MW-34(A)	MW-34(A)	10/14/2003									
MW-34(A)	MW-34 (A)	1/13/2004									
MW-34(A)	MW-34 (A)	4/14/2004									
MW-34(A)	MW-34 (A)	7/20/2004									
MW-35(A)	MW-35 (A)	10/16/2003									
MW-35(A)	MW-35 (A)	1/16/2004									
MW-35(A)	MW-35 (A)	4/13/2004									
MW-35(A)	MW-35 (A)	7/20/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003									
MW-36(A)	MW-36 (A)	1/14/2004									
MW-36(A)	MW-36 (A)	4/14/2004									
MW-36(A)	MW-36 (A)	7/22/2004									
MW-37(A)	MW-37 (A)	10/17/2003									
MW-38(A)	MW-38(A)	10/21/2003									
MW-38(A)	MW-38 (A)	1/14/2004									
MW-38(A)	MW-38 (A)	4/14/2004									
MW-38(A)	MW-38 (A)	7/22/2004									
MW-39(A)	MW-39 (A)	10/16/2003									
MW-39(A)	MW-39 (A)	1/16/2004									
MW-39(A)	MW-39 (A)	4/14/2004									
MW-39(A)	MW-39 (A)	7/21/2004									
MW-39(A)	Trip Blank	7/21/2004									
MW-39(A)	Trip Blank	7/22/2004									
MW-40(A)	MW-40 (A)	10/17/2003									
MW-40(A)	MW-40(A)	1/20/2004									
MW-40(A)	MW-40(A)	4/16/2004									
MW-41(A)	MW-41(A)	10/14/2003									
MW-42(A)	MW-42 (A)	10/15/2003									
MW-43(A)	MW-43(A)	10/13/2003									
MW-43(A)	MW-43 (A)	1/12/2004									
MW-43(A)	MW-43 (A)	4/13/2004									
MW-43(A)	MW-43 (A)	7/21/2004									
MW-44(A)	MW-44 (A)	10/17/2003									
MW-45(A)	MW-45 (A)	10/16/2003									
MW-45(A)	MW-45 (A)	1/16/2004									
MW-45(A)	MW-45 (A)	4/14/2004									
MW-45(A)	MW-45 (A)	7/21/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003									
MW-46(A)	MW-46(A)	1/14/2004									
MW-46(A)	MW-46 (A)	4/12/2004									
MW-46(A)	MW-46 (A)	7/21/2004									
MW-47(A)	MW-47(A)	10/13/2003									
MW-47(A)	MW-47 (A)	1/14/2004									
MW-47(A)	MW-47 (A)	4/12/2004									
MW-47(A)	MW-47 (A)	7/21/2004									
MW-48(A)	MW-48(A)	10/14/2003									
MW-48(A)	MW-48 (A)	1/14/2004									
MW-48(A)	MW-48 (A)	4/12/2004									
MW-48(A)	MW-48 (A)	7/21/2004									
R-1(M)	R-1(M)	10/22/2003									
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-103(C)	SB103(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-104(C)	SB104(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-203(C)	SB203(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-304(D)	SB-304-D-9.0	8/19/2002									
TW-304(D)	SB-304-D-9.0 D	8/19/2002									
TW-305(D)	SB-305-D-9.0	8/19/2002									
TW-306(D)	SB-306-D-9.0	8/19/2002									
TW-307(D)	SB-307-D-9.0	8/19/2002									
TW-309(D)	SB-309-D-9.0	8/19/2002									
TW-311(D)	SB-311-D-10.0	8/19/2002									
TW-312(D)	SB-312-D-10.0	8/19/2002									
TW-313(D)	TW-313-D-22.0	8/20/2002									
TW-314(D)	TW-314-D-22.0	8/20/2002									

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Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002									
TW-319(D)	SB-319-D-14.0	8/19/2002									
TW-400(F)	TW-400(F)	8/22/2002									
TW-401(F)	TW-401(F)	8/23/2002									
TW-402(F)	TW-402(F)	8/23/2002									
TW-405(F)	TW-405(F)	8/22/2002									
TW-406(F)	TW-406(F)	8/22/2002									
TW-407(F)	TW-407(F)	8/22/2002									
TW-408(F)	TW-408(F)	8/22/2002									
TW-409(F)	TW-409(F)	8/22/2002									
TW-600(N)	TW-600(N)	9/13/2002									
TW-601(N)	TW-601(N)	9/13/2002									
TW-602(N)	BT-602(N)	9/13/2002									
TW-602(N)	TW-602(N)	9/13/2002									
TW-603(N)	TW-603(N)	9/13/2002									
TW-608(N)	TW-608 (N)	9/13/2002									
TW-612(N)	TW-612(N)	9/12/2002									
TW-612(N)	TW-612(N)	9/12/2002									
TW-616(N)	TW-616(N)	9/12/2002									
TW-616(N)	TW-616(N)	9/12/2002									
TW-619(N)	TW-619(N)	9/12/2002									
TW-619(N)	TW-619(N)	9/12/2002									
TW-623(N)	TW-623(N)	9/12/2002									
TW-623(N)	TW-623(N)	9/12/2002									
TW-624(N)	TW-624(N)	9/12/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-624(N)	TW-624(N)	9/12/2002									
TW-625(N)	BT-625(N)	9/12/2002									
TW-625(N)	TW-625(N)	9/12/2002									
TW-700(P)	TW-700(P)	8/21/2002	2.5 U	2.5 U	2.5 U	25 U	2.5 U	2.5 U	25 U	2.5 U	25 U
TW-701(P)	TW-701(P)	8/20/2002	5 U	5 U	5 U	50 U	5 U	5 U	50 U	5 U	50 U
TW-702(P)	TW-702(P)	8/21/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-703(P)	TW-703(P)	8/21/2002	1 U	1 U	1 U	10 U	1 U	1 U	10 U	1 U	10 U
TW-704(P)	TW-704(P)	8/21/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-706(P)	TW-706(P)	8/21/2002	2.5 U	2.5 U	2.5 U	25 U	2.5 U	2.5 U	25 U	2.5 U	25 U
TW-707(P)	TW-707(P)	8/21/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-708(P)	BT-708(P)	8/20/2002									

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Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002									
TW-709(P)	TW-709(P)	8/21/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-710(P)	TW-710(P)	8/21/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-711(P)	BT-711(P)	8/21/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-711(P)	TW-711(P)	8/21/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-712(P)	TW-712(P)	8/21/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-714(P)	TW-714(P)	8/21/2002									
TW-716(P)	TW-716(P)	8/20/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-717(P)	TW-717(P)	8/20/2002	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	5 U	0.5 U	5 U
TW-718(P)	TW-718(P)	8/21/2002									
TW-719(P)	BT-719(P)	8/23/2002									
TW-719(P)	TW-719(P)	8/23/2002									
TW-720(P)	TW-720(P)	8/23/2002									
TW-800(Q)	TW-800(Q)-10.5	8/27/2002									
TW-801(Q)	TW801(Q)-10	8/26/2002									
TW-803(Q)	TW-803(Q)-9	8/26/2002									
TW-805(Q)	TW-805(Q)-10	8/26/2002									
TW-806(Q)	TW-806 (Q)-11	8/28/2002									
TW-810(Q)	TW-810 (Q)-8	8/28/2002									
TW-814(Q)	TW814(Q)9	8/27/2002									
TW-816(Q)	TW-816(Q)-12	8/27/2002									
TW-818(Q)	TW-818 (Q)-11	8/28/2002									
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002									
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002									
TW-820(Q)	TW-820 (Q)-10	8/29/2002									
TW-822(Q)	TW-822 (Q)-9	8/29/2002									
TW-824(Q)	TW-824(Q)-9	8/28/2002									
TW-825(Q)	TW-825(Q)-8.5	8/27/2002									
TW-826(Q)	TW-826(Q)-9	8/27/2002									
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002									
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002									
TW-833(Q)	TW-833 (Q)-10.	8/28/2002									
TW-900(S)	SB-900(TW)	8/26/2002									
TW-901(S)	SB-901(TW)	8/26/2002									
TW-901(S)	SB-901(TW)	8/26/2002									
TW-902(S)	SB-902(TW)	8/26/2002									
TW-903(S)	SB-903(TW)	8/26/2002									

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Locator ID	Sample ID	Sample Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-903(S)	SB-903(TW)	8/26/2002									
TW-904(S)	SB-904(TW)	8/26/2002									
TW-904(S)	SB-904(TW)	8/26/2002									
TW-905(S)	SB-905(TW)	8/26/2002									
TW-905(S)	SB-905(TW)	8/26/2002									
TW-906(S)	SB-906(TW)	8/27/2002									
TW-906(S)	SB-906(TW)	8/27/2002									
TW-908(S)	SB-908(TW)	8/27/2002									
TW-908(S)	SB-908(TW)	8/27/2002									
TW-909(S)	SB-909(TW)	8/27/2002									
TW-910(S)	SB-910(TW)	8/26/2002									
TW-911(S)	SB-911(TW)	8/27/2002									
TW-911(S)	SB-911(TW)	8/27/2002									

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Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	0.5 U		2 U		2 U			0.5 U	
MW-1(F)	MW-1-082302	8/23/2002	0.5 U								
MW-1(F)	MW-1(F)	10/22/2003	3.65		0.17 J		2 U			0.26 J	
MW-1(F)	MW-1 (F)	1/15/2004	1.99		2.1		2 U			1.13	
MW-1(F)	MW-1(F)	4/15/2004	0.66		0.19 J		2 U			0.26 J	
MW-1(F)	MW-1 (F)	7/20/2004	2.48		0.18 J		2 U			0.4 J	
MW-2(M)	MW-2(M)	6/19/2003	756		70.2		10 U			270	
MW-2(M)	MW-2 (M)	10/15/2003	92.6		42.9		2 U			159	
MW-2(M)	MW-2 (M)	1/12/2004	2.52		10.2		2 U			47.8	
MW-2(M)	MW-2(M)	4/14/2004	625		54.7		10 U			212	
MW-2(M)	MW-2 (M)	7/22/2004	196		50.6		10 U			206	
MW-6(M)	MW-6(M)	6/19/2003	0.5 U		2 U		2 U			0.5 U	
MW-6(M)	MW-6(M)	10/22/2003	0.41 J		2 U		2 U			0.5 U	
MW-6(M)	MW-6 (M)	1/12/2004	0.5 U		0.27		2 U			0.49	
MW-6(M)	MW-6 (M)	4/13/2004	0.5 U		2 U		2 U			0.5 U	
MW-6(M)	MW-6 (M)	7/19/2004	0.5 U		2 U		2 U			0.5 U	
MW-7(M)	BM-7(M)	6/19/2003	0.5 U		2 U		2 U			0.5 U	
MW-7(M)	MW-7(M)	6/19/2003	0.5 U		2 U		2 U			0.5 U	
MW-7(M)	MW-7(M)	10/13/2003	0.5 U		2 U		2 U			0.5 U	
MW-7(M)	MW-7 (M)	1/12/2004	0.5 U		2 U		2 U			0.5 U	
MW-7(M)	MW-7 (M)	4/12/2004	0.5 U		2 U		2 U			0.5 U	
MW-7(M)	MW-7 (M)	7/19/2004	0.5 U		0.12 J		2 U			0.17 J	
MW-10(M)	MW-10(M)	6/19/2003	25		27.8		2 U			26.8	
MW-10(M)	MW-10 (M)	10/15/2003	182		18.5		4 U			48.6	
MW-10(M)	MW-10 (M)	1/13/2004	24.9		27.5		2 U			28.9	
MW-10(M)	MW-10 (M)	4/13/2004	32.1		23.1		2 U			21.7	
MW-10(M)	MW-10 (M)	7/19/2004	7.38		28.9		2 U			37.1	
MW-11(M)	MW-11(M)	6/19/2003	0.5 U		2 U		2 U			0.5 U	
MW-11(M)	MW-11 (M)	10/15/2003	0.38 J		4.37		2 U			7.48	
MW-11(M)	MW-11 (M)	1/13/2004	0.11		3.15		2 U			1.3	
MW-11(M)	MW-11 (M)	4/13/2004	0.53		0.43 J		2 U			3.19	
MW-11(M)	MW-11 (M)	7/21/2004	0.5 U		2 U		2 U			0.5 U	
MW-12(A)	MW-12(A)	10/22/2003	1.35		2 U		2 U			0.5 U	
MW-12(A)	MW-12 (A)	1/15/2004	0.5 U		2 U		2 U			0.5 U	

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Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004	0.5 U		2 U		2 U			0.5 U	
MW-12(A)	MW-12 (A)	7/22/2004	0.5 U		2 U		2 U			0.5 U	
MW-13(A)	MW-13(A)	10/22/2003	915		94.7		10 U			228	
MW-13(A)	MW-13 (A)	1/15/2004	2270		225		40 U			676	
MW-13(A)	MW-13(A)	4/16/2004	2190		233		40 U			657	
MW-13(A)	MW-13 (A)	7/22/2004	1290		137		40 U			355	
MW-14(A)	MW-14(A)	10/21/2003	2.36		0.11 J		2 U			0.2 J	
MW-14(A)	MW-14 (A)	1/15/2004	3.28		0.28 J		2 U			0.66	
MW-14(A)	MW-14(A)	4/16/2004	0.5 U		2 U		2 U			0.5 U	
MW-14(A)	MW-14 (A)	7/23/2004	0.5 U		2 U		2 U			0.5 U	
MW-15(A)	MW-15(A)	10/20/2003	27		42.4		0.93 J			90.3	
MW-16(A)	MW-16(A)	10/20/2003	1.86		7.81		2 U			12.3	
MW-16(A)	MW-16(A)	1/19/2004	0.36 J		3.79		2 U			5.44	
MW-16(A)	MW-16(A)	4/15/2004	1.1		28.8		0.38 J			29.9	
MW-16(A)	MW-16 (A)	7/22/2004	1.39		13.3		2 U			25.1	
MW-17 (A)	BM-17 (A)	7/22/2004	0.58		1.75 J		2 U			3.95	
MW-17(A)	MW-17 (A)	10/17/2003	14.7		2.9		2 U			7.97	
MW-17(A)	BM-17(A)	1/19/2004	50.3		6.44		2 U			16.4	
MW-17(A)	MW-17(A)	1/19/2004	51.7		6.55		2 U			17.4	
MW-17(A)	MW-17(A)	4/15/2004	29.3		7.78		2 U			23	
MW-17(A)	MW-17 (A)	7/22/2004	0.86		1.85 J		2 U			4.37	
MW-18(A)	MW-18(A)	10/21/2003	2.18		25.8		0.98 J			45	
MW-18(A)	MW-18(A)	1/19/2004	5.45		13.8		2 U			26.9	
MW-18(A)	MW-18(A)	4/15/2004	0.26 J		2.09		0.2 J			1.6	
MW-18(A)	MW-18 (A)	7/21/2004	1.92		9.41		2 U			19	
MW-19(A)	BM-19(A)	10/20/2003	0.5 U		2 U		0.23 J			0.5 U	
MW-19(A)	MW-19(A)	10/20/2003	0.5 U		2 U		0.23 J			0.5 U	
MW-19(A)	MW-19 (A)	1/13/2004	0.5 U		2 U		2 U			0.5 U	
MW-19(A)	MW-19(A)	4/15/2004	0.5 U		2 U		2 U			0.5 U	
MW-19(A)	BM-19 (A)	7/20/2004	2.13		0.11 J		0.11 J			0.21 J	
MW-19(A)	MW-19 (A)	7/20/2004	1.58		2 U		2 U			0.2 J	

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Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003	20.2		1.88 J		2 U			3.62	
MW-20(A)	MW-20 (A)	1/13/2004	12.5		6.54		2 U			8.92	
MW-20(A)	MW-20(A)	4/15/2004	0.11		1.16		2 U			2.02	
MW-20(A)	MW-20 (A)	7/20/2004	14.8		4.03		2 U			3	
MW-21(A)	MW-21(A)	10/20/2003	3.1		2.5		2 U			7.31	
MW-21(A)	BM-21 (A)	1/13/2004	1.2		2.36		2 U			6.9	
MW-21(A)	MW-21 (A)	1/13/2004	1.45		2.53		2 U			7.59	
MW-21(A)	MW-21(A)	4/16/2004	2.51		2.59		2 U			3.97	
MW-21(A)	MW-21 (A)	7/20/2004	3.01		3.9		2 U			13.3	
MW-22(A)	MW-22 (A)	10/16/2003	52.9		2.78		2 U			7	
MW-22(A)	MW-22(A)	1/19/2004	0.3 J		2 U		2 U			0.5 U	
MW-22(A)	MW-22(A)	4/15/2004	0.19		2 U		2 U			0.5 U	
MW-22(A)	MW-22 (A)	7/20/2004	1.25		2 U		2 U			0.18 J	
MW-23(A)	MW-23(A)	10/20/2003	0.5 U		2 U		2 U			0.15 J	
MW-23(A)	MW-23 (A)	1/15/2004	0.52		2 U		2 U			0.17	
MW-23(A)	BM-23(A)	4/15/2004	12.1		2.64		2 U			5.04	
MW-23(A)	MW-23(A)	4/15/2004	14.8		3.27		2 U			6.02	
MW-23(A)	MW-23 (A)	7/20/2004	0.5 U		2 U		2 U			0.5 U	
MW-24(A)	MW-24(A)	10/21/2003	7.69		0.94 J		2 U			2.01	
MW-24(A)	MW-24 (A)	1/15/2004	60.1		4.8		20 U			9.7	
MW-24(A)	MW-24(A)	4/14/2004	28.4		4.54		2 U			11.1	
MW-24(A)	MW-24 (A)	7/22/2004	29.5		3.2		2 U			6.53	
MW-26(A)	MW-26 (A)	10/17/2003	373		32		10 U			83.3	
MW-26(A)	MW-26 (A)	1/15/2004	1280		104		40 U			280	
MW-26(A)	MW-26(A)	4/14/2004	852		96		40 U			251	
MW-26(A)	MW-26 (A)	7/22/2004	886		102		40 U			278	
MW-27(A)	MW-27(A)	10/21/2003	0.12 J		2 U		2 U			0.5 U	
MW-27(A)	MW-27 (A)	1/14/2004	0.5 U		2 U		2 U			0.5 U	
MW-27(A)	MW-27 (A)	4/14/2004	0.5 U		2 U		2 U			0.5 U	
MW-27(A)	MW-27 (A)	7/22/2004	0.37 J		2 U		2 U			0.5 U	
MW-28(A)	MW-28 (A)	10/17/2003	334		24.4		20 U			85.6	
MW-28(A)	MW-28(A)	1/19/2004	902		30.1		20 U			92.4	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004	247		16.2 J		20 U			37.4	
MW-28(A)	MW-28 (A)	7/23/2004	141		6.55 J		10 U			18.2	
MW-29(A)	MW-29(A)	10/21/2003	2480		86 J		100 U			234	
MW-29(A)	MW-29(A)	1/19/2004	2640		82 J		100 U			241	
MW-29(A)	MW-29(A)	4/16/2004	1840		69.5 J		100 U			188	
MW-29(A)	MW-29 (A)	7/22/2004	1750		98.5 J		100 U			270	
MW-30(A)	MW-30 (A)	10/16/2003	2080		88.8		40 U			238	
MW-30(A)	MW-30 (A)	1/16/2004	1910		79		40 U			232	
MW-30(A)	MW-30 (A)	4/13/2004	1850		70.2		20 U			170	
MW-30(A)	MW-30 (A)	7/20/2004	2070		83.2		40 U			218	
MW-31(A)	BM-31 (A)	10/16/2003	728		56.5		20 U			156	
MW-31(A)	MW-31 (A)	10/16/2003	706		54.4		20 U			152	
MW-31(A)	MW-31 (A)	1/12/2004	798		44.2		20 U			121	
MW-31(A)	BM-31 (A)	4/13/2004	432		33		10 U			73	
MW-31(A)	MW-31 (A)	4/13/2004	533		35.2		10 U			80.2	
MW-31(A)	MW-31 (A)	7/20/2004	911		44.8		20 U			119	
MW-32(A)	MW-32(A)	10/14/2003	0.5 U		2 U		2 U			0.5 U	
MW-32(A)	MW-32 (A)	1/12/2004	0.5 U		2 U		2 U			0.5 U	
MW-32(A)	MW-32 (A)	4/13/2004	0.5 U		2 U		2 U			0.5 U	
MW-32(A)	MW-32 (A)	7/19/2004	0.5 U		2 U		2 U			0.5 U	
MW-33(A)	MW-33(A)	10/14/2003	0.5 U		0.35 J		2 U			0.63	
MW-33(A)	MW-33 (A)	1/12/2004	0.55		3.71		2 U			8.13	
MW-33(A)	MW-33 (A)	4/13/2004	1.82		4.07		2 U			8.46	
MW-33(A)	MW-33 (A)	7/19/2004	0.5 U		0.89 J		2 U			1.61	
MW-34(A)	MW-34(A)	10/14/2003	0.29 J		2 U		2 U			0.5 U	
MW-34(A)	MW-34 (A)	1/13/2004	0.25		2 U		2 U			0.5 U	
MW-34(A)	MW-34 (A)	4/14/2004	0.21		2 U		2 U			0.5 U	
MW-34(A)	MW-34 (A)	7/20/2004	0.5 U		2 U		2 U			0.5 U	
MW-35(A)	MW-35 (A)	10/16/2003	1.12		2 U		2 U			0.17 J	
MW-35(A)	MW-35 (A)	1/16/2004	0.42 J		2 U		2 U			0.18 J	
MW-35(A)	MW-35 (A)	4/13/2004	0.5 U		2 U		2 U			0.5 U	
MW-35(A)	MW-35 (A)	7/20/2004	0.5 U		2 U		2 U			0.5 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003	0.5 U		2 U		2 U			0.5 U	
MW-36(A)	MW-36 (A)	1/14/2004	0.5 U		2 U		2 U			0.5 U	
MW-36(A)	MW-36 (A)	4/14/2004	0.92		2 U		2 U			0.5 U	
MW-36(A)	MW-36 (A)	7/22/2004	0.54		2 U		2 U			0.14 J	
MW-37(A)	MW-37 (A)	10/17/2003	17		6.72		2 U			10.4	
MW-38(A)	MW-38(A)	10/21/2003	0.5 U		2 U		2 U			0.5 U	
MW-38(A)	MW-38 (A)	1/14/2004	0.5 U		2 U		2 U			0.15	
MW-38(A)	MW-38 (A)	4/14/2004	0.5 U		2 U		2 U			0.5 U	
MW-38(A)	MW-38 (A)	7/22/2004	0.73		0.2 J		2 U			0.51	
MW-39(A)	MW-39 (A)	10/16/2003	10.9		3.42		2 U			5.33	
MW-39(A)	MW-39 (A)	1/16/2004	10.8		3.34		2 U			4.57	
MW-39(A)	MW-39 (A)	4/14/2004	9.92		3.36		2 U			6.58	
MW-39(A)	MW-39 (A)	7/21/2004	6.32		2.77		2 U			4.4	
MW-39(A)	Trip Blank	7/21/2004	0.5 U		2 U		2 U			0.5 U	
MW-39(A)	Trip Blank	7/22/2004	0.5 U		2 U		2 U			0.5 U	
MW-40(A)	MW-40 (A)	10/17/2003	650		44.8		10 U			86.4	
MW-40(A)	MW-40(A)	1/20/2004	2230		98		40 U			334	
MW-40(A)	MW-40(A)	4/16/2004	2510		98.5 J		100 U			325	
MW-41(A)	MW-41(A)	10/14/2003	1260		38.1		20 U			88.9	
MW-42(A)	MW-42 (A)	10/15/2003	1850		63.4		40 U			226	
MW-43(A)	MW-43(A)	10/13/2003	0.5 U		2 U		2 U			0.5 U	
MW-43(A)	MW-43 (A)	1/12/2004	3.56		2 U		2 U			0.5 U	
MW-43(A)	MW-43 (A)	4/13/2004	0.48 J		2 U		2 U			3.76	
MW-43(A)	MW-43 (A)	7/21/2004	0.5 U		2 U		2 U			0.5 U	
MW-44(A)	MW-44 (A)	10/17/2003	2890		94 J		100 U			388	
MW-45(A)	MW-45 (A)	10/16/2003	0.32 J		2 U		2 U			0.21 J	
MW-45(A)	MW-45 (A)	1/16/2004	0.23 J		2 U		2 U			0.5 U	
MW-45(A)	MW-45 (A)	4/14/2004	0.11 J		2 U		2 U			0.5 U	
MW-45(A)	MW-45 (A)	7/21/2004	0.11 J		2 U		2 U			0.5 U	

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003	0.5 U		2 U		2 U			0.5 U	
MW-46(A)	MW-46(A)	1/14/2004	0.5 U		2 U		2 U			0.5 U	
MW-46(A)	MW-46 (A)	4/12/2004	0.5 U		2 U		2 U			0.5 U	
MW-46(A)	MW-46 (A)	7/21/2004	0.5 U		2 U		2 U			0.5 U	
MW-47(A)	MW-47(A)	10/13/2003	0.5 U		2 U		2 U			0.5 U	
MW-47(A)	MW-47 (A)	1/14/2004	0.13		2 U		2 U			0.5 U	
MW-47(A)	MW-47 (A)	4/12/2004	0.5 U		2 U		2 U			0.5 U	
MW-47(A)	MW-47 (A)	7/21/2004	0.5 U		2 U		2 U			0.5 U	
MW-48(A)	MW-48(A)	10/14/2003	0.5 U		2 U		2 U			0.5 U	
MW-48(A)	MW-48 (A)	1/14/2004	0.5 U		2 U		2 U			0.5 U	
MW-48(A)	MW-48 (A)	4/12/2004	0.5 U		2 U		2 U			0.5 U	
MW-48(A)	MW-48 (A)	7/21/2004	0.5 U		2 U		2 U			0.5 U	
R-1(M)	R-1(M)	10/22/2003	0.63		2 U		2 U			0.5 U	
TW-100(C)	SB100(C)W	8/22/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-103(C)	SB103(C)W	8/22/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-104(C)	SB104(C)W	8/22/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-200(C)	SB200(C)W	8/22/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-201(C)	SB201(C)W	8/22/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-202(C)	SB202(C)W	8/22/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-203(C)	SB203(C)W	8/22/2002	0.4 U	5 U	0.4 J	5 U	0.4 U	0.53		0.88	0.4 U
TW-204(C)	SB204(C)W	8/22/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-204(C)	SB204(C)W2	8/22/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-304(D)	SB-304-D-9.0	8/19/2002	39.1								
TW-304(D)	SB-304-D-9.0 D	8/19/2002	30.8								
TW-305(D)	SB-305-D-9.0	8/19/2002	1760		128		40 U			416	
TW-306(D)	SB-306-D-9.0	8/19/2002	222								
TW-307(D)	SB-307-D-9.0	8/19/2002	47.1								
TW-309(D)	SB-309-D-9.0	8/19/2002	0.93		3.75		2 U			5.72	
TW-311(D)	SB-311-D-10.0	8/19/2002	4.13								
TW-312(D)	SB-312-D-10.0	8/19/2002	0.5 U		0.17 J		2 U			0.32 J	
TW-313(D)	TW-313-D-22.0	8/20/2002	1280								
TW-314(D)	TW-314-D-22.0	8/20/2002	90.9								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002	0.95		2 U		2 U			0.14 J	
TW-319(D)	SB-319-D-14.0	8/19/2002	0.337 U								
TW-400(F)	TW-400(F)	8/22/2002	0.5 U								
TW-401(F)	TW-401(F)	8/23/2002	0.5 U								
TW-402(F)	TW-402(F)	8/23/2002	0.5 U								
TW-405(F)	TW-405(F)	8/22/2002	22.2								
TW-406(F)	TW-406(F)	8/22/2002	249								
TW-407(F)	TW-407(F)	8/22/2002	9.05								
TW-408(F)	TW-408(F)	8/22/2002	3.98								
TW-409(F)	TW-409(F)	8/22/2002	0.5 U								
TW-600(N)	TW-600(N)	9/13/2002	799		34		10 U			89.2	
TW-601(N)	TW-601(N)	9/13/2002	119		29.1		4 U			49.3	
TW-602(N)	BT-602(N)	9/13/2002	0.5 U		2 U		2 U			0.5 U	
TW-602(N)	TW-602(N)	9/13/2002	0.5 U		2 U		2 U			0.5 U	
TW-603(N)	TW-603(N)	9/13/2002	1.13		2 U		2 U			1.19	
TW-608(N)	TW-608 (N)	9/13/2002	0.5 U		2 U		2 U			0.5 U	
TW-612(N)	TW-612(N)	9/12/2002	312		100 U		100 U			98	
TW-612(N)	TW-612(N)	9/12/2002	533								
TW-616(N)	TW-616(N)	9/12/2002	0.5 U		2 U		2 U			0.5 U	
TW-616(N)	TW-616(N)	9/12/2002	0.5 U								
TW-619(N)	TW-619(N)	9/12/2002	80.6		12		10 U			17.6	
TW-619(N)	TW-619(N)	9/12/2002	99.5								
TW-623(N)	TW-623(N)	9/12/2002	16.1		9.57		2 U			23.2	
TW-623(N)	TW-623(N)	9/12/2002	25.4								
TW-624(N)	TW-624(N)	9/12/2002	34.8	5 U	24.3	5 U	0.4 U	10.5	10 U	60.7	11.2
TW-624(N)	TW-624(N)	9/12/2002		10 U							
TW-625(N)	BT-625(N)	9/12/2002	0.5 U								
TW-625(N)	TW-625(N)	9/12/2002	0.5 U								
TW-700(P)	TW-700(P)	8/21/2002	358	25 U	70.8	25 U	2 U	18.2		131	172
TW-701(P)	TW-701(P)	8/20/2002	933	50 U	41.2	50 U	4 U	2.8 J		81.9	27.8
TW-702(P)	TW-702(P)	8/21/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-703(P)	TW-703(P)	8/21/2002	172	10 U	42.3	5.08	0.8 U	8.38		58	29.9
TW-704(P)	TW-704(P)	8/21/2002	1.46	5 U	17.8	5 U	0.4 U	1.64		23.8	3.69
TW-706(P)	TW-706(P)	8/21/2002	195	25 U	14.2	25 U	2 U	0.95 J		26.6	91.6
TW-707(P)	TW-707(P)	8/21/2002	2.87	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.27 J
TW-708(P)	BT-708(P)	8/20/2002	154		32.5		20 U			88.5	

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002	80.9		27.8		20 U			73.2	
TW-709(P)	TW-709(P)	8/21/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-710(P)	TW-710(P)	8/21/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-711(P)	BT-711(P)	8/21/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-711(P)	TW-711(P)	8/21/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-712(P)	TW-712(P)	8/21/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-714(P)	TW-714(P)	8/21/2002	2110		73.2		40 U			277	
TW-716(P)	TW-716(P)	8/20/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.5 U	0.4 U
TW-717(P)	TW-717(P)	8/20/2002	0.4 U	5 U	0.5 U	5 U	0.4 U	0.5 U		0.14 J	0.49
TW-718(P)	TW-718(P)	8/21/2002	0.5 U		2 U		2 U			0.5 U	
TW-719(P)	BT-719(P)	8/23/2002	0.5 U		0.4 J		2 U			0.41 J	
TW-719(P)	TW-719(P)	8/23/2002	0.5 U		2 U		2 U			0.35 J	
TW-720(P)	TW-720(P)	8/23/2002	1530		56.2		40 U			188	
TW-800(Q)	TW-800(Q)-10.5	8/27/2002	0.5 U								
TW-801(Q)	TW801(Q)-10	8/26/2002	0.5 U								
TW-803(Q)	TW-803(Q)-9	8/26/2002	0.5 U								
TW-805(Q)	TW-805(Q)-10	8/26/2002	2.26								
TW-806(Q)	TW-806 (Q)-11	8/28/2002	0.5 U								
TW-810(Q)	TW-810 (Q)-8	8/28/2002	0.5 U								
TW-814(Q)	TW814(Q)9	8/27/2002	0.5 U								
TW-816(Q)	TW-816(Q)-12	8/27/2002	0.5 U								
TW-818(Q)	TW-818 (Q)-11	8/28/2002	0.5 U								
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002	7.78								
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002	11								
TW-820(Q)	TW-820 (Q)-10	8/29/2002	30.2								
TW-822(Q)	TW-822 (Q)-9	8/29/2002	111 J								
TW-824(Q)	TW-824(Q)-9	8/28/2002	0.5 U								
TW-825(Q)	TW-825(Q)-8.5	8/27/2002	0.5 U								
TW-826(Q)	TW-826(Q)-9	8/27/2002	0.5 U								
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002	0.5 U								
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002	0.5 U								
TW-833(Q)	TW-833 (Q)-10.	8/28/2002	0.5 U								
TW-900(S)	SB-900(TW)	8/26/2002	0.977								
TW-901(S)	SB-901(TW)	8/26/2002	7.82		16.3		10 U			32.4	
TW-901(S)	SB-901(TW)	8/26/2002	7								
TW-902(S)	SB-902(TW)	8/26/2002	1.51								
TW-903(S)	SB-903(TW)	8/26/2002	12.8		4.76		2 U			7.85	

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Ethylbenzene	Hexachloro butadiene	Isopropylbenzene	Methylene chloride	Methyl-t-butyl ether	n-Butylbenzene	n-Nitrosodi-n-propylamine	n-Propylbenzene	o-Xylene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-903(S)	SB-903(TW)	8/26/2002	14								
TW-904(S)	SB-904(TW)	8/26/2002	0.5 U		0.17 J		2 U			0.27 J	
TW-904(S)	SB-904(TW)	8/26/2002	0.26 J								
TW-905(S)	SB-905(TW)	8/26/2002	18.9 J		1.83 J		2 U			1.86 J	
TW-905(S)	SB-905(TW)	8/26/2002	46.4								
TW-906(S)	SB-906(TW)	8/27/2002	0.15 J		1.16 J		2 U			2.04	
TW-906(S)	SB-906(TW)	8/27/2002	0.5 U								
TW-908(S)	SB-908(TW)	8/27/2002	0.5 U		2 U		0.14 J			0.5 U	
TW-908(S)	SB-908(TW)	8/27/2002	0.5 U								
TW-909(S)	SB-909(TW)	8/27/2002	0.5 U								
TW-910(S)	SB-910(TW)	8/26/2002	0.803								
TW-911(S)	SB-911(TW)	8/27/2002	13		1.1 J		2 U			0.8	
TW-911(S)	SB-911(TW)	8/27/2002	5.41								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002					0.5 U				
MW-1(F)	MW-1-082302	8/23/2002					0.5 U				
MW-1(F)	MW-1(F)	10/22/2003					7.08				
MW-1(F)	MW-1 (F)	1/15/2004					0.5 U				
MW-1(F)	MW-1(F)	4/15/2004					0.5 U				
MW-1(F)	MW-1 (F)	7/20/2004					0.32 J				
MW-2(M)	MW-2(M)	6/19/2003					15.5				
MW-2(M)	MW-2 (M)	10/15/2003					8.5				
MW-2(M)	MW-2 (M)	1/12/2004					0.51 J+,B				
MW-2(M)	MW-2(M)	4/14/2004					13.4				
MW-2(M)	MW-2 (M)	7/22/2004					7.35				
MW-6(M)	MW-6(M)	6/19/2003					0.5 U				
MW-6(M)	MW-6(M)	10/22/2003					0.5 U B				
MW-6(M)	MW-6 (M)	1/12/2004					0.5 U				
MW-6(M)	MW-6 (M)	4/13/2004					0.5 U				
MW-6(M)	MW-6 (M)	7/19/2004					0.5 U				
MW-7(M)	BM-7(M)	6/19/2003					0.5 U				
MW-7(M)	MW-7(M)	6/19/2003					0.5 U				
MW-7(M)	MW-7(M)	10/13/2003					0.5 U				
MW-7(M)	MW-7 (M)	1/12/2004					0.5 U				
MW-7(M)	MW-7 (M)	4/12/2004					0.5 U				
MW-7(M)	MW-7 (M)	7/19/2004					0.5 U				
MW-10(M)	MW-10(M)	6/19/2003					5.55				
MW-10(M)	MW-10 (M)	10/15/2003					19.3				
MW-10(M)	MW-10 (M)	1/13/2004					15.3				
MW-10(M)	MW-10 (M)	4/13/2004					10.5				
MW-10(M)	MW-10 (M)	7/19/2004					6.09				
MW-11(M)	MW-11(M)	6/19/2003					0.5 U				
MW-11(M)	MW-11 (M)	10/15/2003					0.96 JB				
MW-11(M)	MW-11 (M)	1/13/2004					0.5 U B				
MW-11(M)	MW-11 (M)	4/13/2004					0.5 U B				
MW-11(M)	MW-11 (M)	7/21/2004					0.5 U				
MW-12(A)	MW-12(A)	10/22/2003					2.77				
MW-12(A)	MW-12 (A)	1/15/2004					0.5 U				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004					0.5 U				
MW-12(A)	MW-12 (A)	7/22/2004					0.5 U				
MW-13(A)	MW-13(A)	10/22/2003					26.6				
MW-13(A)	MW-13 (A)	1/15/2004					82.4				
MW-13(A)	MW-13(A)	4/16/2004					58				
MW-13(A)	MW-13 (A)	7/22/2004					30				
MW-14(A)	MW-14(A)	10/21/2003					5.91				
MW-14(A)	MW-14 (A)	1/15/2004					0.5 U				
MW-14(A)	MW-14(A)	4/16/2004					0.5 U				
MW-14(A)	MW-14 (A)	7/23/2004					0.5 U				
MW-15(A)	MW-15(A)	10/20/2003					13.5				
MW-16(A)	MW-16(A)	10/20/2003					1.43 J,B				
MW-16(A)	MW-16(A)	1/19/2004					0.5 U B				
MW-16(A)	MW-16(A)	4/15/2004					0.71 JB				
MW-16(A)	MW-16 (A)	7/22/2004					2.15				
MW-17 (A)	BM-17 (A)	7/22/2004					1.09				
MW-17(A)	MW-17 (A)	10/17/2003					25.5				
MW-17(A)	BM-17(A)	1/19/2004					1.04 JB				
MW-17(A)	MW-17(A)	1/19/2004					1.05 JB				
MW-17(A)	MW-17(A)	4/15/2004					0.67 JB				
MW-17(A)	MW-17 (A)	7/22/2004					1.46				
MW-18(A)	MW-18(A)	10/21/2003					21.1				
MW-18(A)	MW-18(A)	1/19/2004					13.9				
MW-18(A)	MW-18(A)	4/15/2004					0.68 JB				
MW-18(A)	MW-18 (A)	7/21/2004					3.18				
MW-19(A)	BM-19(A)	10/20/2003					0.5 U				
MW-19(A)	MW-19(A)	10/20/2003					0.5 U				
MW-19(A)	MW-19 (A)	1/13/2004					0.5 U				
MW-19(A)	MW-19(A)	4/15/2004					0.5 U				
MW-19(A)	BM-19 (A)	7/20/2004					0.25 J				
MW-19(A)	MW-19 (A)	7/20/2004					0.19 J				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003					1.29 J,B				
MW-20(A)	MW-20 (A)	1/13/2004					0.88 J+,B				
MW-20(A)	MW-20(A)	4/15/2004					0.5 U B				
MW-20(A)	MW-20 (A)	7/20/2004					1.18				
MW-21(A)	MW-21(A)	10/20/2003					0.5 U				
MW-21(A)	BM-21 (A)	1/13/2004					0.5 U B				
MW-21(A)	MW-21 (A)	1/13/2004					0.5 U B				
MW-21(A)	MW-21(A)	4/16/2004					0.52 JB				
MW-21(A)	MW-21 (A)	7/20/2004					0.17 J				
MW-22(A)	MW-22 (A)	10/16/2003					2.96				
MW-22(A)	MW-22(A)	1/19/2004					0.5 U				
MW-22(A)	MW-22(A)	4/15/2004					0.5 U				
MW-22(A)	MW-22 (A)	7/20/2004					0.5 U				
MW-23(A)	MW-23(A)	10/20/2003					0.5 U				
MW-23(A)	MW-23 (A)	1/15/2004					0.5 U				
MW-23(A)	BM-23(A)	4/15/2004					0.94 JB				
MW-23(A)	MW-23(A)	4/15/2004					1.13 JB				
MW-23(A)	MW-23 (A)	7/20/2004					0.5 U				
MW-24(A)	MW-24(A)	10/21/2003					1.17 J,B				
MW-24(A)	MW-24 (A)	1/15/2004					5 U				
MW-24(A)	MW-24(A)	4/14/2004					0.5 U B				
MW-24(A)	MW-24 (A)	7/22/2004					0.98				
MW-26(A)	MW-26 (A)	10/17/2003					18.4				
MW-26(A)	MW-26 (A)	1/15/2004					24.2 JB				
MW-26(A)	MW-26(A)	4/14/2004					14.8 JB				
MW-26(A)	MW-26 (A)	7/22/2004					17.2				
MW-27(A)	MW-27(A)	10/21/2003					0.5 U				
MW-27(A)	MW-27 (A)	1/14/2004					0.5 U				
MW-27(A)	MW-27 (A)	4/14/2004					0.5 U				
MW-27(A)	MW-27 (A)	7/22/2004					0.5 U				
MW-28(A)	MW-28 (A)	10/17/2003					201				
MW-28(A)	MW-28(A)	1/19/2004					696				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004					88.9				
MW-28(A)	MW-28 (A)	7/23/2004					15.8				
MW-29(A)	MW-29(A)	10/21/2003					5160				
MW-29(A)	MW-29(A)	1/19/2004					8170				
MW-29(A)	MW-29(A)	4/16/2004					3780				
MW-29(A)	MW-29 (A)	7/22/2004					5520				
MW-30(A)	MW-30 (A)	10/16/2003					110				
MW-30(A)	MW-30 (A)	1/16/2004					127				
MW-30(A)	MW-30 (A)	4/13/2004					243				
MW-30(A)	MW-30 (A)	7/20/2004					128				
MW-31(A)	BM-31 (A)	10/16/2003					41.6				
MW-31(A)	MW-31 (A)	10/16/2003					38.4				
MW-31(A)	MW-31 (A)	1/12/2004					109				
MW-31(A)	BM-31 (A)	4/13/2004					29.2				
MW-31(A)	MW-31 (A)	4/13/2004					35.9				
MW-31(A)	MW-31 (A)	7/20/2004					67.9				
MW-32(A)	MW-32(A)	10/14/2003					0.5 U				
MW-32(A)	MW-32 (A)	1/12/2004					0.5 U				
MW-32(A)	MW-32 (A)	4/13/2004					0.5 U				
MW-32(A)	MW-32 (A)	7/19/2004					0.5 U				
MW-33(A)	MW-33(A)	10/14/2003					0.5 U				
MW-33(A)	MW-33 (A)	1/12/2004					2.16				
MW-33(A)	MW-33 (A)	4/13/2004					0.83 JB				
MW-33(A)	MW-33 (A)	7/19/2004					0.62				
MW-34(A)	MW-34(A)	10/14/2003					0.5 U				
MW-34(A)	MW-34 (A)	1/13/2004					0.5 U				
MW-34(A)	MW-34 (A)	4/14/2004					0.5 U				
MW-34(A)	MW-34 (A)	7/20/2004					0.5 U				
MW-35(A)	MW-35 (A)	10/16/2003					0.5 U				
MW-35(A)	MW-35 (A)	1/16/2004					0.5 U				
MW-35(A)	MW-35 (A)	4/13/2004					0.5 U				
MW-35(A)	MW-35 (A)	7/20/2004					0.5 U				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003					0.5 U				
MW-36(A)	MW-36 (A)	1/14/2004					0.5 U				
MW-36(A)	MW-36 (A)	4/14/2004					0.5 U B				
MW-36(A)	MW-36 (A)	7/22/2004					0.5 U				
MW-37(A)	MW-37 (A)	10/17/2003					0.72 J				
MW-38(A)	MW-38(A)	10/21/2003					0.5 U				
MW-38(A)	MW-38 (A)	1/14/2004					0.5 U				
MW-38(A)	MW-38 (A)	4/14/2004					0.5 U				
MW-38(A)	MW-38 (A)	7/22/2004					0.5 U				
MW-39(A)	MW-39 (A)	10/16/2003					0.5 U B				
MW-39(A)	MW-39 (A)	1/16/2004					0.5 U B				
MW-39(A)	MW-39 (A)	4/14/2004					0.6 JB				
MW-39(A)	MW-39 (A)	7/21/2004					0.26 J				
MW-39(A)	Trip Blank	7/21/2004					0.5 U				
MW-39(A)	Trip Blank	7/22/2004					0.5 U				
MW-40(A)	MW-40 (A)	10/17/2003					57.6				
MW-40(A)	MW-40(A)	1/20/2004					833				
MW-40(A)	MW-40(A)	4/16/2004					1530				
MW-41(A)	MW-41(A)	10/14/2003					103				
MW-42(A)	MW-42 (A)	10/15/2003					163				
MW-43(A)	MW-43(A)	10/13/2003					0.5 U				
MW-43(A)	MW-43 (A)	1/12/2004					0.5 U B				
MW-43(A)	MW-43 (A)	4/13/2004					0.5 U				
MW-43(A)	MW-43 (A)	7/21/2004					0.5 U				
MW-44(A)	MW-44 (A)	10/17/2003					5320				
MW-45(A)	MW-45 (A)	10/16/2003					0.5 U				
MW-45(A)	MW-45 (A)	1/16/2004					0.5 U				
MW-45(A)	MW-45 (A)	4/14/2004					0.5 U				
MW-45(A)	MW-45 (A)	7/21/2004					0.5 U				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003					0.5 U				
MW-46(A)	MW-46(A)	1/14/2004					0.5 U				
MW-46(A)	MW-46 (A)	4/12/2004					0.5 U				
MW-46(A)	MW-46 (A)	7/21/2004					0.5 U				
MW-47(A)	MW-47(A)	10/13/2003					0.5 U				
MW-47(A)	MW-47 (A)	1/14/2004					0.5 U				
MW-47(A)	MW-47 (A)	4/12/2004					0.5 U				
MW-47(A)	MW-47 (A)	7/21/2004					0.5 U				
MW-48(A)	MW-48(A)	10/14/2003					0.5 U				
MW-48(A)	MW-48 (A)	1/14/2004					0.5 U				
MW-48(A)	MW-48 (A)	4/12/2004					0.5 U				
MW-48(A)	MW-48 (A)	7/21/2004					0.5 U				
R-1(M)	R-1(M)	10/22/2003					0.5 U B				
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-103(C)	SB103(C)W	8/22/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-104(C)	SB104(C)W	8/22/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-203(C)	SB203(C)W	8/22/2002	0.61	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	1 U	0.5 U	0.41 J	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	1 U	0.5 U	0.41 J	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-304(D)	SB-304-D-9.0	8/19/2002					10.9				
TW-304(D)	SB-304-D-9.0 D	8/19/2002					10.2				
TW-305(D)	SB-305-D-9.0	8/19/2002					186				
TW-306(D)	SB-306-D-9.0	8/19/2002					83.3				
TW-307(D)	SB-307-D-9.0	8/19/2002					76				
TW-309(D)	SB-309-D-9.0	8/19/2002					2.09				
TW-311(D)	SB-311-D-10.0	8/19/2002					1.6				
TW-312(D)	SB-312-D-10.0	8/19/2002					0.5 U				
TW-313(D)	TW-313-D-22.0	8/20/2002					40.6				
TW-314(D)	TW-314-D-22.0	8/20/2002					9.8				

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002					0.5 U				
TW-319(D)	SB-319-D-14.0	8/19/2002					0.5 U				
TW-400(F)	TW-400(F)	8/22/2002					0.5 U				
TW-401(F)	TW-401(F)	8/23/2002					0.5 U				
TW-402(F)	TW-402(F)	8/23/2002					0.5 U				
TW-405(F)	TW-405(F)	8/22/2002					0.86				
TW-406(F)	TW-406(F)	8/22/2002					7.59				
TW-407(F)	TW-407(F)	8/22/2002					1.63				
TW-408(F)	TW-408(F)	8/22/2002					0.5 U				
TW-409(F)	TW-409(F)	8/22/2002					0.5 U				
TW-600(N)	TW-600(N)	9/13/2002					28				
TW-601(N)	TW-601(N)	9/13/2002					1.1				
TW-602(N)	BT-602(N)	9/13/2002					0.5 U				
TW-602(N)	TW-602(N)	9/13/2002					0.5 U				
TW-603(N)	TW-603(N)	9/13/2002					0.5 U				
TW-608(N)	TW-608 (N)	9/13/2002					0.5 U				
TW-612(N)	TW-612(N)	9/12/2002					102				
TW-612(N)	TW-612(N)	9/12/2002					145				
TW-616(N)	TW-616(N)	9/12/2002					0.5 U				
TW-616(N)	TW-616(N)	9/12/2002					0.5 U				
TW-619(N)	TW-619(N)	9/12/2002					7.85				
TW-619(N)	TW-619(N)	9/12/2002					11.7				
TW-623(N)	TW-623(N)	9/12/2002					0.68				
TW-623(N)	TW-623(N)	9/12/2002					3.3				
TW-624(N)	TW-624(N)	9/12/2002	6.25	1 U	0.65	0.5 U	1.65	0.5 U	0.5 U	0.5 U	0.5 U
TW-624(N)	TW-624(N)	9/12/2002									
TW-625(N)	BT-625(N)	9/12/2002					0.5 U				
TW-625(N)	TW-625(N)	9/12/2002					0.5 U				
TW-700(P)	TW-700(P)	8/21/2002	2.5 U	5 U	2.5 U	2.5 U	5.35	2.5 U	2.5 U	2.5 U	2.5 U
TW-701(P)	TW-701(P)	8/20/2002	5 U	10 U	5 U	5 U	85.7	5 U	5 U	5 U	5 U
TW-702(P)	TW-702(P)	8/21/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-703(P)	TW-703(P)	8/21/2002	5.74	2 U	1 U	1 U	30.9	1 U	1 U	1 U	1 U
TW-704(P)	TW-704(P)	8/21/2002	2.37	1 U	0.5 U	0.5 U	1.07	0.5 U	0.5 U	0.5 U	0.5 U
TW-706(P)	TW-706(P)	8/21/2002	2.5 U	5 U	2.5 U	2.5 U	19	2.5 U	2.5 U	2.5 U	2.5 U
TW-707(P)	TW-707(P)	8/21/2002	0.5 U	1 U	0.5 U	0.5 U	0.41	0.5 U	0.5 U	0.5 U	0.5 U
TW-708(P)	BT-708(P)	8/20/2002					43.6				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002					31.9				
TW-709(P)	TW-709(P)	8/21/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-710(P)	TW-710(P)	8/21/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-711(P)	BT-711(P)	8/21/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-711(P)	TW-711(P)	8/21/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-712(P)	TW-712(P)	8/21/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-714(P)	TW-714(P)	8/21/2002					33.6				
TW-716(P)	TW-716(P)	8/20/2002	0.5 U	1 U	0.5 U	0.5 U	0.4 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-717(P)	TW-717(P)	8/20/2002	0.5 U	1 U	0.5 U	0.5 U	0.38 J	0.5 U	0.5 U	0.5 U	0.5 U
TW-718(P)	TW-718(P)	8/21/2002					0.5 U				
TW-719(P)	BT-719(P)	8/23/2002					0.5 U				
TW-719(P)	TW-719(P)	8/23/2002					0.5 U				
TW-720(P)	TW-720(P)	8/23/2002					192				
TW-800(Q)	TW-800(Q)-10.5	8/27/2002					0.5 U				
TW-801(Q)	TW801(Q)-10	8/26/2002					0.5 U				
TW-803(Q)	TW-803(Q)-9	8/26/2002					0.5 U				
TW-805(Q)	TW-805(Q)-10	8/26/2002					0.5 U				
TW-806(Q)	TW-806 (Q)-11	8/28/2002					1.13				
TW-810(Q)	TW-810 (Q)-8	8/28/2002					0.5 U				
TW-814(Q)	TW814(Q)9	8/27/2002					0.5 U				
TW-816(Q)	TW-816(Q)-12	8/27/2002					0.5 U				
TW-818(Q)	TW-818 (Q)-11	8/28/2002					0.5 U				
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002					0.581				
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002					3.17				
TW-820(Q)	TW-820 (Q)-10	8/29/2002					1.05				
TW-822(Q)	TW-822 (Q)-9	8/29/2002					2.89 J				
TW-824(Q)	TW-824(Q)-9	8/28/2002					0.5 U				
TW-825(Q)	TW-825(Q)-8.5	8/27/2002					0.5 U				
TW-826(Q)	TW-826(Q)-9	8/27/2002					0.5 U				
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002					0.5 U				
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002					0.5 U				
TW-833(Q)	TW-833 (Q)-10.	8/28/2002					0.5 U				
TW-900(S)	SB-900(TW)	8/26/2002					0.701				
TW-901(S)	SB-901(TW)	8/26/2002					1.03				
TW-901(S)	SB-901(TW)	8/26/2002					2.5 U				
TW-902(S)	SB-902(TW)	8/26/2002					0.907				
TW-903(S)	SB-903(TW)	8/26/2002					4.32				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-903(S)	SB-903(TW)	8/26/2002					4.51				
TW-904(S)	SB-904(TW)	8/26/2002					0.5 U				
TW-904(S)	SB-904(TW)	8/26/2002					0.5 U				
TW-905(S)	SB-905(TW)	8/26/2002					0.81 J				
TW-905(S)	SB-905(TW)	8/26/2002					2.5 U				
TW-906(S)	SB-906(TW)	8/27/2002					0.25 J				
TW-906(S)	SB-906(TW)	8/27/2002					0.5 U				
TW-908(S)	SB-908(TW)	8/27/2002					0.5 U				
TW-908(S)	SB-908(TW)	8/27/2002					0.5 U				
TW-909(S)	SB-909(TW)	8/27/2002					0.5 U				
TW-910(S)	SB-910(TW)	8/26/2002					0.5 U				
TW-911(S)	SB-911(TW)	8/27/2002					1.1				
TW-911(S)	SB-911(TW)	8/27/2002					0.43 J				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002				1 U
MW-1(F)	MW-1-082302	8/23/2002				1 U
MW-1(F)	MW-1(F)	10/22/2003				16.3
MW-1(F)	MW-1 (F)	1/15/2004				1 U
MW-1(F)	MW-1(F)	4/15/2004				0.92 J
MW-1(F)	MW-1 (F)	7/20/2004				2
MW-2(M)	MW-2(M)	6/19/2003				369
MW-2(M)	MW-2 (M)	10/15/2003				21.3
MW-2(M)	MW-2 (M)	1/12/2004				0.86
MW-2(M)	MW-2(M)	4/14/2004				342
MW-2(M)	MW-2 (M)	7/22/2004				29.4
MW-6(M)	MW-6(M)	6/19/2003				1 U
MW-6(M)	MW-6(M)	10/22/2003				1 U
MW-6(M)	MW-6 (M)	1/12/2004				1 U
MW-6(M)	MW-6 (M)	4/13/2004				1 U
MW-6(M)	MW-6 (M)	7/19/2004				1 U
MW-7(M)	BM-7(M)	6/19/2003				1 U
MW-7(M)	MW-7(M)	6/19/2003				1 U
MW-7(M)	MW-7(M)	10/13/2003				1 U
MW-7(M)	MW-7 (M)	1/12/2004				1 U
MW-7(M)	MW-7 (M)	4/12/2004				1 U
MW-7(M)	MW-7 (M)	7/19/2004				1 U
MW-10(M)	MW-10(M)	6/19/2003				49
MW-10(M)	MW-10 (M)	10/15/2003				49.6
MW-10(M)	MW-10 (M)	1/13/2004				46.9
MW-10(M)	MW-10 (M)	4/13/2004				55
MW-10(M)	MW-10 (M)	7/19/2004				31.2
MW-11(M)	MW-11(M)	6/19/2003				1 U
MW-11(M)	MW-11 (M)	10/15/2003				8.39
MW-11(M)	MW-11 (M)	1/13/2004				1 U
MW-11(M)	MW-11 (M)	4/13/2004				1 U
MW-11(M)	MW-11 (M)	7/21/2004				1 U
MW-12(A)	MW-12(A)	10/22/2003				3.77
MW-12(A)	MW-12 (A)	1/15/2004				1 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-12(A)	MW-12(A)	4/16/2004				1 U
MW-12(A)	MW-12 (A)	7/22/2004				1 U
MW-13(A)	MW-13(A)	10/22/2003				94.6
MW-13(A)	MW-13 (A)	1/15/2004				578
MW-13(A)	MW-13(A)	4/16/2004				110
MW-13(A)	MW-13 (A)	7/22/2004				50.4
MW-14(A)	MW-14(A)	10/21/2003				6.82
MW-14(A)	MW-14 (A)	1/15/2004				0.47 J
MW-14(A)	MW-14(A)	4/16/2004				1 U
MW-14(A)	MW-14 (A)	7/23/2004				1 U
MW-15(A)	MW-15(A)	10/20/2003				40.7
MW-16(A)	MW-16(A)	10/20/2003				9.74
MW-16(A)	MW-16(A)	1/19/2004				1 U
MW-16(A)	MW-16(A)	4/15/2004				0.34 J
MW-16(A)	MW-16 (A)	7/22/2004				2.83
MW-17 (A)	BM-17 (A)	7/22/2004				1.12
MW-17(A)	MW-17 (A)	10/17/2003				35.3
MW-17(A)	BM-17(A)	1/19/2004				18.9
MW-17(A)	MW-17(A)	1/19/2004				20.1
MW-17(A)	MW-17(A)	4/15/2004				8.65
MW-17(A)	MW-17 (A)	7/22/2004				1.83
MW-18(A)	MW-18(A)	10/21/2003				22.4
MW-18(A)	MW-18(A)	1/19/2004				18.9
MW-18(A)	MW-18(A)	4/15/2004				0.82 J
MW-18(A)	MW-18 (A)	7/21/2004				1.68
MW-19(A)	BM-19(A)	10/20/2003				1 U
MW-19(A)	MW-19(A)	10/20/2003				1 U
MW-19(A)	MW-19 (A)	1/13/2004				1 U
MW-19(A)	MW-19(A)	4/15/2004				1 U
MW-19(A)	BM-19 (A)	7/20/2004				0.73 J
MW-19(A)	MW-19 (A)	7/20/2004				0.61 J

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-20(A)	MW-20(A)	10/20/2003				121
MW-20(A)	MW-20 (A)	1/13/2004				46.2
MW-20(A)	MW-20(A)	4/15/2004				1.08
MW-20(A)	MW-20 (A)	7/20/2004				63.3
MW-21(A)	MW-21(A)	10/20/2003				1.73
MW-21(A)	BM-21 (A)	1/13/2004				0.45
MW-21(A)	MW-21 (A)	1/13/2004				0.46
MW-21(A)	MW-21(A)	4/16/2004				5.41
MW-21(A)	MW-21 (A)	7/20/2004				0.88 J
MW-22(A)	MW-22 (A)	10/16/2003				7.82
MW-22(A)	MW-22(A)	1/19/2004				1 U
MW-22(A)	MW-22(A)	4/15/2004				1 U
MW-22(A)	MW-22 (A)	7/20/2004				0.46 J
MW-23(A)	MW-23(A)	10/20/2003				1 U
MW-23(A)	MW-23 (A)	1/15/2004				0.38
MW-23(A)	BM-23(A)	4/15/2004				10.9
MW-23(A)	MW-23(A)	4/15/2004				14.5
MW-23(A)	MW-23 (A)	7/20/2004				1 U
MW-24(A)	MW-24(A)	10/21/2003				10.5
MW-24(A)	MW-24 (A)	1/15/2004				116
MW-24(A)	MW-24(A)	4/14/2004				30.7
MW-24(A)	MW-24 (A)	7/22/2004				15.6
MW-26(A)	MW-26 (A)	10/17/2003				1040
MW-26(A)	MW-26 (A)	1/15/2004				5500
MW-26(A)	MW-26(A)	4/14/2004				3060
MW-26(A)	MW-26 (A)	7/22/2004				3430
MW-27(A)	MW-27(A)	10/21/2003				1 U
MW-27(A)	MW-27 (A)	1/14/2004				1 U
MW-27(A)	MW-27 (A)	4/14/2004				1 U
MW-27(A)	MW-27 (A)	7/22/2004				1 U
MW-28(A)	MW-28 (A)	10/17/2003				1070
MW-28(A)	MW-28(A)	1/19/2004				4000

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28(A)	4/14/2004				874
MW-28(A)	MW-28 (A)	7/23/2004				412
MW-29(A)	MW-29(A)	10/21/2003				13300
MW-29(A)	MW-29(A)	1/19/2004				13500
MW-29(A)	MW-29(A)	4/16/2004				8920
MW-29(A)	MW-29 (A)	7/22/2004				8130
MW-30(A)	MW-30 (A)	10/16/2003				663
MW-30(A)	MW-30 (A)	1/16/2004				378
MW-30(A)	MW-30 (A)	4/13/2004				2140
MW-30(A)	MW-30 (A)	7/20/2004				1330
MW-31(A)	BM-31 (A)	10/16/2003				143
MW-31(A)	MW-31 (A)	10/16/2003				138
MW-31(A)	MW-31 (A)	1/12/2004				189
MW-31(A)	BM-31 (A)	4/13/2004				121
MW-31(A)	MW-31 (A)	4/13/2004				127
MW-31(A)	MW-31 (A)	7/20/2004				356
MW-32(A)	MW-32(A)	10/14/2003				1 U
MW-32(A)	MW-32 (A)	1/12/2004				1 U
MW-32(A)	MW-32 (A)	4/13/2004				1 U
MW-32(A)	MW-32 (A)	7/19/2004				1 U
MW-33(A)	MW-33(A)	10/14/2003				0.28 J
MW-33(A)	MW-33 (A)	1/12/2004				4.16
MW-33(A)	MW-33 (A)	4/13/2004				2.13
MW-33(A)	MW-33 (A)	7/19/2004				0.65 J
MW-34(A)	MW-34(A)	10/14/2003				1 U
MW-34(A)	MW-34 (A)	1/13/2004				1 U
MW-34(A)	MW-34 (A)	4/14/2004				1 U
MW-34(A)	MW-34 (A)	7/20/2004				1 U
MW-35(A)	MW-35 (A)	10/16/2003				1 U
MW-35(A)	MW-35 (A)	1/16/2004				1 U
MW-35(A)	MW-35 (A)	4/13/2004				1 U
MW-35(A)	MW-35 (A)	7/20/2004				1 U

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-36(A)	MW-36(A)	10/21/2003				0.28 J
MW-36(A)	MW-36 (A)	1/14/2004				1 U
MW-36(A)	MW-36 (A)	4/14/2004				1 U
MW-36(A)	MW-36 (A)	7/22/2004				1 U
MW-37(A)	MW-37 (A)	10/17/2003				30.6
MW-38(A)	MW-38(A)	10/21/2003				1 U
MW-38(A)	MW-38 (A)	1/14/2004				1 U
MW-38(A)	MW-38 (A)	4/14/2004				1 U
MW-38(A)	MW-38 (A)	7/22/2004				1 U
MW-39(A)	MW-39 (A)	10/16/2003				21.6
MW-39(A)	MW-39 (A)	1/16/2004				28.8
MW-39(A)	MW-39 (A)	4/14/2004				11.7
MW-39(A)	MW-39 (A)	7/21/2004				13.2
MW-39(A)	Trip Blank	7/21/2004				1 U
MW-39(A)	Trip Blank	7/22/2004				1 U
MW-40(A)	MW-40 (A)	10/17/2003				367
MW-40(A)	MW-40(A)	1/20/2004				6460
MW-40(A)	MW-40(A)	4/16/2004				8150
MW-41(A)	MW-41(A)	10/14/2003				192
MW-42(A)	MW-42 (A)	10/15/2003				370
MW-43(A)	MW-43(A)	10/13/2003				1 U
MW-43(A)	MW-43 (A)	1/12/2004				1 U
MW-43(A)	MW-43 (A)	4/13/2004				1 U
MW-43(A)	MW-43 (A)	7/21/2004				1 U
MW-44(A)	MW-44 (A)	10/17/2003				14900
MW-45(A)	MW-45 (A)	10/16/2003				1 U
MW-45(A)	MW-45 (A)	1/16/2004				1 U
MW-45(A)	MW-45 (A)	4/14/2004				1 U
MW-45(A)	MW-45 (A)	7/21/2004				1 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
MW-46(A)	MW-46(A)	10/14/2003				1 U
MW-46(A)	MW-46(A)	1/14/2004				1 U
MW-46(A)	MW-46 (A)	4/12/2004				1 U
MW-46(A)	MW-46 (A)	7/21/2004				1 U
MW-47(A)	MW-47(A)	10/13/2003				1 U
MW-47(A)	MW-47 (A)	1/14/2004				1 U
MW-47(A)	MW-47 (A)	4/12/2004				1 U
MW-47(A)	MW-47 (A)	7/21/2004				1 U
MW-48(A)	MW-48(A)	10/14/2003				1 U
MW-48(A)	MW-48 (A)	1/14/2004				1 U
MW-48(A)	MW-48 (A)	4/12/2004				1 U
MW-48(A)	MW-48 (A)	7/21/2004				1 U
R-1(M)	R-1(M)	10/22/2003				1 U
TW-100(C)	SB100(C)W	8/22/2002	10 U	0.5 U	0.8 U	
TW-103(C)	SB103(C)W	8/22/2002	10 U	0.5 U	0.8 U	
TW-104(C)	SB104(C)W	8/22/2002	10 U	0.5 U	0.8 U	
TW-200(C)	SB200(C)W	8/22/2002	10 U	0.5 U	0.8 U	
TW-201(C)	SB201(C)W	8/22/2002	10 U	0.5 U	0.8 U	
TW-202(C)	SB202(C)W	8/22/2002	10 U	0.5 U	0.8 U	
TW-203(C)	SB203(C)W	8/22/2002	10 U	0.5 U	0.8 U	
TW-204(C)	SB204(C)W	8/22/2002	10 U	0.5 U	0.8 U	
TW-204(C)	SB204(C)W2	8/22/2002	10 U	0.5 U	0.8 U	
TW-304(D)	SB-304-D-9.0	8/19/2002				73.1
TW-304(D)	SB-304-D-9.0 D	8/19/2002				56.1
TW-305(D)	SB-305-D-9.0	8/19/2002				3870
TW-306(D)	SB-306-D-9.0	8/19/2002				106
TW-307(D)	SB-307-D-9.0	8/19/2002				135
TW-309(D)	SB-309-D-9.0	8/19/2002				5.13
TW-311(D)	SB-311-D-10.0	8/19/2002				3.17 U
TW-312(D)	SB-312-D-10.0	8/19/2002				1 U
TW-313(D)	TW-313-D-22.0	8/20/2002				316
TW-314(D)	TW-314-D-22.0	8/20/2002				81.3

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
TW-318(D)	TW-318-D-22.0	8/20/2002				2.03
TW-319(D)	SB-319-D-14.0	8/19/2002				0.724 U
TW-400(F)	TW-400(F)	8/22/2002				1 U
TW-401(F)	TW-401(F)	8/23/2002				1 U
TW-402(F)	TW-402(F)	8/23/2002				1 U
TW-405(F)	TW-405(F)	8/22/2002				62.7
TW-406(F)	TW-406(F)	8/22/2002				474
TW-407(F)	TW-407(F)	8/22/2002				17.3
TW-408(F)	TW-408(F)	8/22/2002				1.47
TW-409(F)	TW-409(F)	8/22/2002				1 U
TW-600(N)	TW-600(N)	9/13/2002				840
TW-601(N)	TW-601(N)	9/13/2002				107
TW-602(N)	BT-602(N)	9/13/2002				1.19
TW-602(N)	TW-602(N)	9/13/2002				1.39
TW-603(N)	TW-603(N)	9/13/2002				3.65
TW-608(N)	TW-608 (N)	9/13/2002				1 U
TW-612(N)	TW-612(N)	9/12/2002				250
TW-612(N)	TW-612(N)	9/12/2002				353
TW-616(N)	TW-616(N)	9/12/2002				1 U
TW-616(N)	TW-616(N)	9/12/2002				1 U
TW-619(N)	TW-619(N)	9/12/2002				61.8
TW-619(N)	TW-619(N)	9/12/2002				81.3
TW-623(N)	TW-623(N)	9/12/2002				27.9
TW-623(N)	TW-623(N)	9/12/2002				40.1
TW-624(N)	TW-624(N)	9/12/2002	10 U	0.5 U	47.1	
TW-624(N)	TW-624(N)	9/12/2002				
TW-625(N)	BT-625(N)	9/12/2002				1 U
TW-625(N)	TW-625(N)	9/12/2002				1 U
TW-700(P)	TW-700(P)	8/21/2002	50 U	2.5 U	898	
TW-701(P)	TW-701(P)	8/20/2002	100 U	5 U	1350	
TW-702(P)	TW-702(P)	8/21/2002	10 U	0.5 U	0.8 U	
TW-703(P)	TW-703(P)	8/21/2002	20 U	1 U	229	
TW-704(P)	TW-704(P)	8/21/2002	10 U	0.5 U	5.98	
TW-706(P)	TW-706(P)	8/21/2002	50 U	2.5 U	540	
TW-707(P)	TW-707(P)	8/21/2002	10 U	0.5 U	1.14	
TW-708(P)	BT-708(P)	8/20/2002				69.9

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes
			ug/L	ug/L	ug/L	ug/L
TW-708(P)	TW-708(P)	8/20/2002				57.4
TW-709(P)	TW-709(P)	8/21/2002	10 U	0.5 U	0.8 U	
TW-710(P)	TW-710(P)	8/21/2002	10 U	0.5 U	0.8 U	
TW-711(P)	BT-711(P)	8/21/2002	10 U	0.5 U	0.8 U	
TW-711(P)	TW-711(P)	8/21/2002	10 U	0.5 U	0.8 U	
TW-712(P)	TW-712(P)	8/21/2002	10 U	0.5 U	0.8 U	
TW-714(P)	TW-714(P)	8/21/2002				1450
TW-716(P)	TW-716(P)	8/20/2002	10 U	0.5 U	0.8 U	
TW-717(P)	TW-717(P)	8/20/2002	10 U	0.5 U	0.8 U	
TW-718(P)	TW-718(P)	8/21/2002				1 U
TW-719(P)	BT-719(P)	8/23/2002				1 U
TW-719(P)	TW-719(P)	8/23/2002				1 U
TW-720(P)	TW-720(P)	8/23/2002				2650
TW-800(Q)	TW-800(Q)-10.5	8/27/2002				1 U
TW-801(Q)	TW801(Q)-10	8/26/2002				1 U
TW-803(Q)	TW-803(Q)-9	8/26/2002				1 U
TW-805(Q)	TW-805(Q)-10	8/26/2002				6.87
TW-806(Q)	TW-806 (Q)-11	8/28/2002				1 U
TW-810(Q)	TW-810 (Q)-8	8/28/2002				1 U
TW-814(Q)	TW814(Q)9	8/27/2002				1 U
TW-816(Q)	TW-816(Q)-12	8/27/2002				1 U
TW-818(Q)	TW-818 (Q)-11	8/28/2002				1 U
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002				7.93
TW-819(Q)	TW-819 (Q)-9.5	8/28/2002				6.49
TW-820(Q)	TW-820 (Q)-10	8/29/2002				11.6
TW-822(Q)	TW-822 (Q)-9	8/29/2002				336 J
TW-824(Q)	TW-824(Q)-9	8/28/2002				1 U
TW-825(Q)	TW-825(Q)-8.5	8/27/2002				1 U
TW-826(Q)	TW-826(Q)-9	8/27/2002				1 U
TW-826(Q)	TW-826 (Q)-8.5	8/29/2002				1 U
TW-828(Q)	TW-828 (Q)-8.5	8/29/2002				1 U
TW-833(Q)	TW-833 (Q)-10.	8/28/2002				1 U
TW-900(S)	SB-900(TW)	8/26/2002				1 U
TW-901(S)	SB-901(TW)	8/26/2002				64.1
TW-901(S)	SB-901(TW)	8/26/2002				55.6
TW-902(S)	SB-902(TW)	8/26/2002				137
TW-903(S)	SB-903(TW)	8/26/2002				146

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VOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Vinyl acetate	Vinyl chloride	Xylene, Isomers m & p	Xylenes	
			ug/L	ug/L	ug/L	ug/L	
TW-903(S)	SB-903(TW)	8/26/2002				146	
TW-904(S)	SB-904(TW)	8/26/2002				1	U
TW-904(S)	SB-904(TW)	8/26/2002				0.63	J
TW-905(S)	SB-905(TW)	8/26/2002				193	J
TW-905(S)	SB-905(TW)	8/26/2002				406	
TW-906(S)	SB-906(TW)	8/27/2002				8.89	
TW-906(S)	SB-906(TW)	8/27/2002				12.8	
TW-908(S)	SB-908(TW)	8/27/2002				1	U
TW-908(S)	SB-908(TW)	8/27/2002				1	U
TW-909(S)	SB-909(TW)	8/27/2002				1	U
TW-910(S)	SB-910(TW)	8/26/2002				1.43	
TW-911(S)	SB-911(TW)	8/27/2002				5.65	
TW-911(S)	SB-911(TW)	8/27/2002				2.22	

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RBDMSVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	0.0811	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-1(F)	MW-1-082302	8/23/2002									
MW-1(F)	MW-1(F)	10/22/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-1(F)	MW-1(F)	10/22/2003									
MW-1(F)	MW-1 (F)	1/15/2004	0.186	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-1(F)	MW-1 (F)	1/15/2004									
MW-1(F)	MW-1(F)	4/15/2004	0.112	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-1(F)	MW-1(F)	4/15/2004									
MW-1(F)	MW-1 (F)	7/20/2004	0.102	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-1(F)	MW-1 (F)	7/20/2004									
MW-2(M)	MW-2(M)	6/19/2003	1.44	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
MW-2(M)	MW-2(M)	6/19/2003									
MW-2(M)	MW-2 (M)	10/15/2003	0.638	0.0568	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0693
MW-2(M)	MW-2 (M)	10/15/2003									
MW-2(M)	MW-2 (M)	1/12/2004	0.54	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U
MW-2(M)	MW-2 (M)	1/12/2004									
MW-2(M)	MW-2(M)	4/14/2004	0.644	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-2(M)	MW-2(M)	4/14/2004									
MW-2(M)	MW-2 (M)	7/22/2004	1.41	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-2(M)	MW-2 (M)	7/22/2004									
MW-6(M)	MW-6(M)	6/19/2003	0.214	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
MW-6(M)	MW-6(M)	6/19/2003									
MW-6(M)	MW-6(M)	10/22/2003	0.146	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-6(M)	MW-6(M)	10/22/2003									
MW-6(M)	MW-6 (M)	1/12/2004	0.167	0.05 U	0.011	0.01 U	0.01 U	0.01 U	0.013	0.01 U	0.05 U
MW-6(M)	MW-6 (M)	1/12/2004									
MW-6(M)	MW-6 (M)	4/13/2004	0.153	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-6(M)	MW-6 (M)	4/13/2004									
MW-6(M)	MW-6 (M)	7/19/2004	0.228	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-6(M)	MW-6 (M)	7/19/2004									
MW-7(M)	BM-7(M)	6/19/2003	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
MW-7(M)	BM-7(M)	6/19/2003									
MW-7(M)	MW-7(M)	6/19/2003	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
MW-7(M)	MW-7(M)	6/19/2003									
MW-7(M)	MW-7(M)	10/13/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-7(M)	MW-7(M)	10/13/2003									
MW-7(M)	MW-7 (M)	1/12/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0104	0.01 U	0.05 U

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RBDMSVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	1/12/2004									
MW-7(M)	MW-7 (M)	4/12/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-7(M)	MW-7 (M)	4/12/2004									
MW-7(M)	MW-7 (M)	7/19/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-7(M)	MW-7 (M)	7/19/2004									
MW-10(M)	MW-10(M)	6/19/2003	2 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	0.5 U
MW-10(M)	MW-10(M)	6/19/2003									
MW-10(M)	MW-10 (M)	10/15/2003	0.28	0.05 U	0.0475	0.069	0.0625	0.0548	0.0554	0.0172	0.0655
MW-10(M)	MW-10 (M)	10/15/2003									
MW-10(M)	MW-10 (M)	1/13/2004	1 U	0.05 U	0.0114	0.0105	0.0124	0.01 U	0.0144	0.01 U	0.05 U
MW-10(M)	MW-10 (M)	1/13/2004									
MW-10(M)	MW-10 (M)	4/13/2004	0.375	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U
MW-10(M)	MW-10 (M)	4/13/2004									
MW-10(M)	MW-10 (M)	7/19/2004	0.365	0.05 U	0.0147	0.0111	0.0118	0.0106	0.0133	0.01 U	0.05 U
MW-10(M)	MW-10 (M)	7/19/2004									
MW-11(M)	MW-11(M)	6/19/2003	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U
MW-11(M)	MW-11(M)	6/19/2003									
MW-11(M)	MW-11 (M)	10/15/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-11(M)	MW-11 (M)	10/15/2003									
MW-11(M)	MW-11 (M)	1/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-11(M)	MW-11 (M)	1/13/2004									
MW-11(M)	MW-11 (M)	4/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-11(M)	MW-11 (M)	4/13/2004									
MW-11(M)	MW-11 (M)	7/21/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.05 U
MW-11(M)	MW-11 (M)	7/21/2004									
MW-12(A)	MW-12(A)	10/22/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-12(A)	MW-12(A)	10/22/2003									
MW-12(A)	MW-12 (A)	1/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-12(A)	MW-12 (A)	1/15/2004									
MW-12(A)	MW-12(A)	4/16/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-12(A)	MW-12(A)	4/16/2004									
MW-12(A)	MW-12 (A)	7/22/2004	0.05 U	0.05 U	0.0139	0.01 U	0.0102	0.015	0.0144	0.01 U	0.05 U
MW-12(A)	MW-12 (A)	7/22/2004									
MW-13(A)	MW-13(A)	10/22/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-13(A)	MW-13(A)	10/22/2003									
MW-13(A)	MW-13 (A)	1/15/2004	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U

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RBDMSVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-13(A)	MW-13 (A)	1/15/2004									
MW-13(A)	MW-13(A)	4/16/2004	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U
MW-13(A)	MW-13(A)	4/16/2004									
MW-13(A)	MW-13 (A)	7/22/2004	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-13(A)	MW-13 (A)	7/22/2004									
MW-14(A)	MW-14(A)	10/21/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-14(A)	MW-14(A)	10/21/2003									
MW-14(A)	MW-14 (A)	1/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-14(A)	MW-14 (A)	1/15/2004									
MW-14(A)	MW-14(A)	4/16/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-14(A)	MW-14(A)	4/16/2004									
MW-14(A)	MW-14 (A)	7/23/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-14(A)	MW-14 (A)	7/23/2004									
MW-15(A)	MW-15(A)	10/20/2003	0.0916	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-15(A)	MW-15(A)	10/20/2003									
MW-16(A)	MW-16(A)	10/20/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-16(A)	MW-16(A)	10/20/2003									
MW-16(A)	MW-16(A)	1/19/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-16(A)	MW-16(A)	1/19/2004									
MW-16(A)	MW-16(A)	4/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-16(A)	MW-16(A)	4/15/2004									
MW-16(A)	MW-16 (A)	7/22/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-16(A)	MW-16 (A)	7/22/2004									
MW-17 (A)	BM-17 (A)	7/22/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-17 (A)	BM-17 (A)	7/22/2004									
MW-17(A)	MW-17 (A)	10/17/2003	0.0612	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-17(A)	MW-17 (A)	10/17/2003									
MW-17(A)	BM-17(A)	1/19/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-17(A)	BM-17(A)	1/19/2004									
MW-17(A)	MW-17(A)	1/19/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-17(A)	MW-17(A)	1/19/2004									
MW-17(A)	MW-17(A)	4/15/2004	0.0532	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-17(A)	MW-17(A)	4/15/2004									
MW-17(A)	MW-17 (A)	7/22/2004	0.0864	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-17(A)	MW-17 (A)	7/22/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-18(A)	MW-18(A)	10/21/2003	0.517	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-18(A)	MW-18(A)	10/21/2003									
MW-18(A)	MW-18(A)	1/19/2004	0.632	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-18(A)	MW-18(A)	1/19/2004									
MW-18(A)	MW-18(A)	4/15/2004	0.312	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-18(A)	MW-18(A)	4/15/2004									
MW-18(A)	MW-18 (A)	7/21/2004	0.428	0.05 U	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U	0.01 U	0.05 U
MW-18(A)	MW-18 (A)	7/21/2004									
MW-19(A)	BM-19(A)	10/20/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-19(A)	BM-19(A)	10/20/2003									
MW-19(A)	MW-19(A)	10/20/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-19(A)	MW-19(A)	10/20/2003									
MW-19(A)	MW-19 (A)	1/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-19(A)	MW-19 (A)	1/13/2004									
MW-19(A)	MW-19(A)	4/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-19(A)	MW-19(A)	4/15/2004									
MW-19(A)	BM-19 (A)	7/20/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-19(A)	BM-19 (A)	7/20/2004									
MW-19(A)	MW-19 (A)	7/20/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-19(A)	MW-19 (A)	7/20/2004									
MW-20(A)	MW-20(A)	10/20/2003	0.318	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-20(A)	MW-20(A)	10/20/2003									
MW-20(A)	MW-20 (A)	1/13/2004	0.345	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-20(A)	MW-20 (A)	1/13/2004									
MW-20(A)	MW-20(A)	4/15/2004	0.184	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U
MW-20(A)	MW-20(A)	4/15/2004									
MW-20(A)	MW-20 (A)	7/20/2004	0.306	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U
MW-20(A)	MW-20 (A)	7/20/2004									
MW-21(A)	MW-21(A)	10/20/2003	0.224	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-21(A)	MW-21(A)	10/20/2003									
MW-21(A)	BM-21 (A)	1/13/2004	0.253	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-21(A)	BM-21 (A)	1/13/2004									
MW-21(A)	MW-21 (A)	1/13/2004	0.185	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-21(A)	MW-21 (A)	1/13/2004									
MW-21(A)	MW-21(A)	4/16/2004	0.5 U	0.5 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.5 U
MW-21(A)	MW-21(A)	4/16/2004									
MW-21(A)	MW-21 (A)	7/20/2004	0.318	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U

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RBDMSVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21 (A)	7/20/2004									
MW-22(A)	MW-22 (A)	10/16/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-22(A)	MW-22 (A)	10/16/2003									
MW-22(A)	MW-22(A)	1/19/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-22(A)	MW-22(A)	1/19/2004									
MW-22(A)	MW-22(A)	4/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-22(A)	MW-22(A)	4/15/2004									
MW-22(A)	MW-22 (A)	7/20/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-22(A)	MW-22 (A)	7/20/2004									
MW-23(A)	MW-23(A)	10/20/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-23(A)	MW-23(A)	10/20/2003									
MW-23(A)	MW-23 (A)	1/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-23(A)	MW-23 (A)	1/15/2004									
MW-23(A)	BM-23(A)	4/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-23(A)	BM-23(A)	4/15/2004									
MW-23(A)	MW-23(A)	4/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-23(A)	MW-23(A)	4/15/2004									
MW-23(A)	MW-23 (A)	7/20/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-23(A)	MW-23 (A)	7/20/2004									
MW-24(A)	MW-24(A)	10/21/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-24(A)	MW-24(A)	10/21/2003									
MW-24(A)	MW-24 (A)	1/15/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-24(A)	MW-24 (A)	1/15/2004									
MW-24(A)	MW-24(A)	4/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-24(A)	MW-24(A)	4/14/2004									
MW-24(A)	MW-24 (A)	7/22/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.015 U	0.01 U	0.01 U	0.05 U
MW-24(A)	MW-24 (A)	7/22/2004									
MW-26(A)	MW-26 (A)	10/17/2003	5 U	5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	5 U
MW-26(A)	MW-26 (A)	10/17/2003									
MW-26(A)	MW-26 (A)	1/15/2004	0.0687	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-26(A)	MW-26 (A)	1/15/2004									
MW-26(A)	MW-26(A)	4/14/2004	0.0548	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-26(A)	MW-26(A)	4/14/2004									
MW-26(A)	MW-26 (A)	7/22/2004	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
MW-26(A)	MW-26 (A)	7/22/2004									

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-27(A)	MW-27(A)	10/21/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-27(A)	MW-27(A)	10/21/2003									
MW-27(A)	MW-27 (A)	1/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-27(A)	MW-27 (A)	1/14/2004									
MW-27(A)	MW-27 (A)	4/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-27(A)	MW-27 (A)	4/14/2004									
MW-27(A)	MW-27 (A)	7/22/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-27(A)	MW-27 (A)	7/22/2004									
MW-28(A)	MW-28 (A)	10/17/2003	5 U	5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	5 U
MW-28(A)	MW-28 (A)	10/17/2003									
MW-28(A)	MW-28(A)	1/19/2004	0.0548	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-28(A)	MW-28(A)	1/19/2004									
MW-28(A)	MW-28(A)	4/14/2004	0.0555	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-28(A)	MW-28(A)	4/14/2004									
MW-28(A)	MW-28 (A)	7/23/2004	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
MW-28(A)	MW-28 (A)	7/23/2004									
MW-29(A)	MW-29(A)	10/21/2003	0.0959	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-29(A)	MW-29(A)	10/21/2003									
MW-29(A)	MW-29(A)	1/19/2004	0.126	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0125	0.01 U	0.05 U
MW-29(A)	MW-29(A)	1/19/2004									
MW-29(A)	MW-29(A)	4/16/2004	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U
MW-29(A)	MW-29(A)	4/16/2004									
MW-29(A)	MW-29 (A)	7/22/2004	2.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
MW-29(A)	MW-29 (A)	7/22/2004									
MW-30(A)	MW-30 (A)	10/16/2003	0.0531	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-30(A)	MW-30 (A)	10/16/2003									
MW-30(A)	MW-30 (A)	1/16/2004	0.0751	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-30(A)	MW-30 (A)	1/16/2004									
MW-30(A)	MW-30 (A)	4/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-30(A)	MW-30 (A)	4/13/2004									
MW-30(A)	MW-30 (A)	7/20/2004	0.0744	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-30(A)	MW-30 (A)	7/20/2004									
MW-31(A)	BM-31 (A)	10/16/2003	0.0594	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-31(A)	BM-31 (A)	10/16/2003									
MW-31(A)	MW-31 (A)	10/16/2003	0.0661	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-31(A)	MW-31 (A)	10/16/2003									

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Remedial Investigation/Feasibility Study
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Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-31(A)	MW-31 (A)	1/12/2004	0.096	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-31(A)	MW-31 (A)	1/12/2004									
MW-31(A)	BM-31 (A)	4/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-31(A)	BM-31 (A)	4/13/2004									
MW-31(A)	MW-31 (A)	4/13/2004	0.1 U	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U
MW-31(A)	MW-31 (A)	4/13/2004									
MW-31(A)	MW-31 (A)	7/20/2004	0.0652	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-31(A)	MW-31 (A)	7/20/2004									
MW-32(A)	MW-32(A)	10/14/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-32(A)	MW-32(A)	10/14/2003									
MW-32(A)	MW-32 (A)	1/12/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-32(A)	MW-32 (A)	1/12/2004									
MW-32(A)	MW-32 (A)	4/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-32(A)	MW-32 (A)	4/13/2004									
MW-32(A)	MW-32 (A)	7/19/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-32(A)	MW-32 (A)	7/19/2004									
MW-33(A)	MW-33(A)	10/14/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-33(A)	MW-33(A)	10/14/2003									
MW-33(A)	MW-33 (A)	1/12/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-33(A)	MW-33 (A)	1/12/2004									
MW-33(A)	MW-33 (A)	4/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-33(A)	MW-33 (A)	4/13/2004									
MW-33(A)	MW-33 (A)	7/19/2004	0.0528	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-33(A)	MW-33 (A)	7/19/2004									
MW-34(A)	MW-34(A)	10/14/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-34(A)	MW-34(A)	10/14/2003									
MW-34(A)	MW-34 (A)	1/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-34(A)	MW-34 (A)	1/13/2004									
MW-34(A)	MW-34 (A)	4/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-34(A)	MW-34 (A)	4/14/2004									
MW-34(A)	MW-34 (A)	7/20/2004	0.05 U	0.05 U	0.0262	0.01 U	0.0267	0.0261	0.0306	0.0111	0.05 U
MW-34(A)	MW-34 (A)	7/20/2004									
MW-35(A)	MW-35 (A)	10/16/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-35(A)	MW-35 (A)	10/16/2003									
MW-35(A)	MW-35 (A)	1/16/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-35(A)	MW-35 (A)	1/16/2004									

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-35(A)	MW-35 (A)	4/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-35(A)	MW-35 (A)	4/13/2004									
MW-35(A)	MW-35 (A)	7/20/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-35(A)	MW-35 (A)	7/20/2004									
MW-36(A)	MW-36(A)	10/21/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-36(A)	MW-36(A)	10/21/2003									
MW-36(A)	MW-36 (A)	1/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-36(A)	MW-36 (A)	1/14/2004									
MW-36(A)	MW-36 (A)	4/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-36(A)	MW-36 (A)	4/14/2004									
MW-36(A)	MW-36 (A)	7/22/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-36(A)	MW-36 (A)	7/22/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-36(A)	MW-36 (A)	7/22/2004									
MW-37(A)	MW-37 (A)	10/17/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-37(A)	MW-37 (A)	10/17/2003									
MW-38(A)	MW-38(A)	10/21/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-38(A)	MW-38(A)	10/21/2003									
MW-38(A)	MW-38 (A)	1/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-38(A)	MW-38 (A)	1/14/2004									
MW-38(A)	MW-38 (A)	4/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-38(A)	MW-38 (A)	4/14/2004									
MW-38(A)	MW-38 (A)	7/22/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.02 U	0.02 U	0.0412	0.01 U	0.05 U
MW-38(A)	MW-38 (A)	7/22/2004									
MW-39(A)	MW-39 (A)	10/16/2003	1.04	0.137	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-39(A)	MW-39 (A)	10/16/2003									
MW-39(A)	MW-39 (A)	1/16/2004	0.598	0.0715	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-39(A)	MW-39 (A)	1/16/2004									
MW-39(A)	MW-39 (A)	4/14/2004	0.462	0.0707	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-39(A)	MW-39 (A)	4/14/2004									
MW-39(A)	MW-39 (A)	7/21/2004	1.4	0.156	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-39(A)	MW-39 (A)	7/21/2004									
MW-39(A)	Trip Blank	7/21/2004									
MW-39(A)	Trip Blank	7/22/2004									
MW-40(A)	MW-40 (A)	10/17/2003	0.727	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-40(A)	MW-40 (A)	10/17/2003									

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Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-40(A)	MW-40(A)	1/20/2004	0.553	0.1 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.1 U
MW-40(A)	MW-40(A)	1/20/2004									
MW-40(A)	MW-40(A)	4/16/2004	0.822	0.2 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.2 U
MW-40(A)	MW-40(A)	4/16/2004									
MW-41(A)	MW-41(A)	10/14/2003	2.45	1.25 U	0.01 U	0.01 U	0.01 U	0.01 U	0.02 U	0.01 U	1.25 U
MW-41(A)	MW-41(A)	10/14/2003									
MW-42(A)	MW-42 (A)	10/15/2003	1.1	0.0893	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-42(A)	MW-42 (A)	10/15/2003									
MW-43(A)	MW-43(A)	10/13/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-43(A)	MW-43(A)	10/13/2003									
MW-43(A)	MW-43 (A)	1/12/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-43(A)	MW-43 (A)	1/12/2004									
MW-43(A)	MW-43 (A)	4/13/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-43(A)	MW-43 (A)	4/13/2004									
MW-43(A)	MW-43 (A)	7/21/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-43(A)	MW-43 (A)	7/21/2004									
MW-44(A)	MW-44 (A)	10/17/2003	0.194	0.08 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-44(A)	MW-44 (A)	10/17/2003									
MW-45(A)	MW-45 (A)	10/16/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-45(A)	MW-45 (A)	10/16/2003									
MW-45(A)	MW-45 (A)	1/16/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-45(A)	MW-45 (A)	1/16/2004									
MW-45(A)	MW-45 (A)	4/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-45(A)	MW-45 (A)	4/14/2004									
MW-45(A)	MW-45 (A)	7/21/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-45(A)	MW-45 (A)	7/21/2004									
MW-46(A)	MW-46(A)	10/14/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-46(A)	MW-46(A)	10/14/2003									
MW-46(A)	MW-46(A)	1/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-46(A)	MW-46(A)	1/14/2004									
MW-46(A)	MW-46 (A)	4/12/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-46(A)	MW-46 (A)	4/12/2004									
MW-46(A)	MW-46 (A)	7/21/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-46(A)	MW-46 (A)	7/21/2004									

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Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-47(A)	MW-47(A)	10/13/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-47(A)	MW-47(A)	10/13/2003									
MW-47(A)	MW-47 (A)	1/14/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-47(A)	MW-47 (A)	1/14/2004									
MW-47(A)	MW-47 (A)	4/12/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-47(A)	MW-47 (A)	4/12/2004									
MW-47(A)	MW-47 (A)	7/21/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-47(A)	MW-47 (A)	7/21/2004									
MW-48(A)	MW-48(A)	10/14/2003	0.362	0.05 U	0.0127	0.01 U	0.01 U	0.01 U	0.0157	0.01 U	0.123
MW-48(A)	MW-48(A)	10/14/2003									
MW-48(A)	MW-48 (A)	1/14/2004	0.176	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
MW-48(A)	MW-48 (A)	1/14/2004									
MW-48(A)	MW-48 (A)	4/12/2004	0.117	0.05 U	0.0109	0.0104	0.0105	0.01 U	0.0122	0.01 U	0.0507
MW-48(A)	MW-48 (A)	4/12/2004									
MW-48(A)	MW-48 (A)	7/21/2004	0.201	0.05 U	0.0243	0.0177	0.0202	0.0176	0.0282	0.01 U	0.106
MW-48(A)	MW-48 (A)	7/21/2004									
R-1(M)	R-1(M)	10/22/2003	0.0873	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.015	0.01 U	0.05 U
R-1(M)	R-1(M)	10/22/2003									
TW-100(C)	SB100(C)W	8/22/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-100(C)	SB100(C)W	8/22/2002									
TW-103(C)	SB103(C)W	8/22/2002									
TW-104(C)	SB104(C)W	8/22/2002									
TW-200(C)	SB200(C)W	8/22/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-200(C)	SB200(C)W	8/22/2002									
TW-201(C)	SB201(C)W	8/22/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-201(C)	SB201(C)W	8/22/2002									
TW-202(C)	SB202(C)W	8/22/2002	0.157	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-202(C)	SB202(C)W	8/22/2002									
TW-203(C)	SB203(C)W	8/22/2002	1.09	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-203(C)	SB203(C)W	8/22/2002									
TW-204(C)	SB204(C)W	8/22/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-204(C)	SB204(C)W	8/22/2002									
TW-204(C)	SB204(C)W2	8/22/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-204(C)	SB204(C)W2	8/22/2002									

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			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-304(D)	SB-304-D-9.0	8/19/2002	5 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-304(D)	SB-304-D-9.0 D	8/19/2002	5 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-305(D)	SB-305-D-9.0	8/19/2002	7.37	50 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U
TW-305(D)	SB-305-D-9.0	8/19/2002									
TW-306(D)	SB-306-D-9.0	8/19/2002	0.622	0.14	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.05 U
TW-307(D)	SB-307-D-9.0	8/19/2002	5 U	5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	5 U
TW-309(D)	SB-309-D-9.0	8/19/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-309(D)	SB-309-D-9.0	8/19/2002									
TW-311(D)	SB-311-D-10.0	8/19/2002	0.0567	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-312(D)	SB-312-D-10.0	8/19/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-312(D)	SB-312-D-10.0	8/19/2002									
TW-313(D)	TW-313-D-22.0	8/20/2002	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.05 U
TW-314(D)	TW-314-D-22.0	8/20/2002	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002									
TW-319(D)	SB-319-D-14.0	8/19/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-400(F)	TW-400(F)	8/22/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-600(N)	TW-600(N)	9/13/2002	0.195	0.05 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.05 U
TW-600(N)	TW-600(N)	9/13/2002									
TW-601(N)	TW-601(N)	9/13/2002	0.191	0.05 U	2.5 U	0.01 U	0.01 U	0.01 U	2.5 U	0.01 U	0.05 U
TW-601(N)	TW-601(N)	9/13/2002									
TW-602(N)	BT-602(N)	9/13/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-602(N)	BT-602(N)	9/13/2002									
TW-602(N)	TW-602(N)	9/13/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-602(N)	TW-602(N)	9/13/2002									
TW-603(N)	TW-603(N)	9/13/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-603(N)	TW-603(N)	9/13/2002									
TW-608(N)	TW-608 (N)	9/13/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-608(N)	TW-608 (N)	9/13/2002									
TW-612(N)	TW-612(N)	9/12/2002	1.15	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TW-612(N)	TW-612(N)	9/12/2002									
TW-616(N)	TW-616(N)	9/12/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-616(N)	TW-616(N)	9/12/2002									
TW-619(N)	TW-619(N)	9/12/2002	0.142	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-619(N)	TW-619(N)	9/12/2002									
TW-623(N)	TW-623(N)	9/12/2002	0.37	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-623(N)	TW-623(N)	9/12/2002									
TW-624(N)	TW-624(N)	9/12/2002	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

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Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-624(N)	TW-624(N)	9/12/2002									
TW-625(N)	BT-625(N)	9/12/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-625(N)	TW-625(N)	9/12/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-700(P)	TW-700(P)	8/21/2002	1 U J	1 U J	1 U J	1 U J	1 U J	1 U J	1 U J	1 U J	1 U J
TW-700(P)	TW-700(P)	8/21/2002									
TW-701(P)	TW-701(P)	8/20/2002									
TW-702(P)	TW-702(P)	8/21/2002	0.05 U J	0.05 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.05 U J
TW-702(P)	TW-702(P)	8/21/2002									
TW-703(P)	TW-703(P)	8/21/2002									
TW-704(P)	TW-704(P)	8/21/2002									
TW-705(P)	TW-705(P)	8/20/2002	0.0571 U J	0.0571 U J	0.0114 U J	0.0114 U J	0.0114 U J	0.0114 U J	0.0114 U J	0.0114 U J	0.0571 U J
TW-706(P)	TW-706(P)	8/21/2002									
TW-707(P)	TW-707(P)	8/21/2002									
TW-708(P)	BT-708(P)	8/20/2002	2 U J	2 U J	2 U J	0.01 U J	0.01 U J	0.01 U J	2 U J	0.01 U J	2 U J
TW-708(P)	BT-708(P)	8/20/2002									
TW-708(P)	TW-708(P)	8/20/2002	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J
TW-708(P)	TW-708(P)	8/20/2002									
TW-709(P)	TW-709(P)	8/21/2002									
TW-710(P)	TW-710(P)	8/21/2002	0.05 U J	0.05 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.05 U J
TW-710(P)	TW-710(P)	8/21/2002									
TW-711(P)	BT-711(P)	8/21/2002									
TW-711(P)	TW-711(P)	8/21/2002									
TW-712(P)	TW-712(P)	8/21/2002	0.05 U J	0.05 U J	0.01 U J	0.01 U J	U J	0.01 U J	0.0161 J	0.01 U J	0.05 U J
TW-712(P)	TW-712(P)	8/21/2002									
TW-714(P)	TW-714(P)	8/21/2002	1.55 J	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J	2.5 U J
TW-714(P)	TW-714(P)	8/21/2002									
TW-716(P)	TW-716(P)	8/20/2002	0.05 U J	0.05 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.05 U J
TW-716(P)	TW-716(P)	8/20/2002									
TW-717(P)	TW-717(P)	8/20/2002	0.2 U J	0.2 U J	0.2 U J	0.01 U J	0.01 U J	0.01 U J	0.2 U J	0.01 U J	0.2 U J
TW-717(P)	TW-717(P)	8/20/2002									
TW-718(P)	TW-718(P)	8/21/2002	0.05 U J	0.05 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.01 U J	0.05 U J
TW-718(P)	TW-718(P)	8/21/2002									
TW-719(P)	BT-719(P)	8/23/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-719(P)	BT-719(P)	8/23/2002									
TW-719(P)	TW-719(P)	8/23/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-719(P)	TW-719(P)	8/23/2002									
TW-720(P)	TW-720(P)	8/23/2002	5 U	0.0894	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TW-720(P)	TW-720(P)	8/23/2002									

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			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-900(S)	SB-900(TW)	8/26/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-901(S)	SB-901(TW)	8/26/2002	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TW-901(S)	SB-901(TW)	8/26/2002									
TW-902(S)	SB-902(TW)	8/26/2002	1.03	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-903(S)	SB-903(TW)	8/26/2002	1.53	0.103 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
TW-903(S)	SB-903(TW)	8/26/2002									
TW-904(S)	SB-904(TW)	8/26/2002	0.87	0.0657 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TW-904(S)	SB-904(TW)	8/26/2002									
TW-905(S)	SB-905(TW)	8/26/2002									
TW-906(S)	SB-906(TW)	8/27/2002	0.153	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-906(S)	SB-906(TW)	8/27/2002									
TW-908(S)	SB-908(TW)	8/27/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-908(S)	SB-908(TW)	8/27/2002									
TW-909(S)	SB-909(TW)	8/27/2002	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-910(S)	SB-910(TW)	8/26/2002	0.591	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
TW-911(S)	SB-911(TW)	8/27/2002	0.363 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TW-911(S)	SB-911(TW)	8/27/2002									

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RBDMSVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	0.12	0.01 U	2 U	0.05 U
MW-1(F)	MW-1-082302	8/23/2002			0.1 U	
MW-1(F)	MW-1(F)	10/22/2003	0.05 U	0.01 U	2 U B	0.05 U
MW-1(F)	MW-1(F)	10/22/2003			0.947	
MW-1(F)	MW-1 (F)	1/15/2004	0.209	0.01 U	0.3 J	0.05 U
MW-1(F)	MW-1 (F)	1/15/2004			1.5 U	
MW-1(F)	MW-1(F)	4/15/2004	0.134	0.01 U	0.72 J	0.05 U
MW-1(F)	MW-1(F)	4/15/2004			2.3 U	
MW-1(F)	MW-1 (F)	7/20/2004	0.0967	0.01 U	1.25 U	0.05 U
MW-1(F)	MW-1 (F)	7/20/2004			2.05	
MW-2(M)	MW-2(M)	6/19/2003	2.16	0.5 U	656	0.5 U
MW-2(M)	MW-2(M)	6/19/2003			524	
MW-2(M)	MW-2 (M)	10/15/2003	1.33	0.01 U	125	0.051
MW-2(M)	MW-2 (M)	10/15/2003			89.4	
MW-2(M)	MW-2 (M)	1/12/2004	0.78	0.02 U	4.08	0.1 U
MW-2(M)	MW-2 (M)	1/12/2004			3.42	
MW-2(M)	MW-2(M)	4/14/2004	0.88	0.1 U	334	0.5 U
MW-2(M)	MW-2(M)	4/14/2004			143	
MW-2(M)	MW-2 (M)	7/22/2004	1.83	0.1 U	132	0.5 U
MW-2(M)	MW-2 (M)	7/22/2004			179	
MW-6(M)	MW-6(M)	6/19/2003	0.1 U	0.1 U	2 U	0.1 U
MW-6(M)	MW-6(M)	6/19/2003			0.1 U	
MW-6(M)	MW-6(M)	10/22/2003	0.05 U	0.01 U	2 U	0.05 U
MW-6(M)	MW-6(M)	10/22/2003			0.05 U	
MW-6(M)	MW-6 (M)	1/12/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-6(M)	MW-6 (M)	1/12/2004			0.4	
MW-6(M)	MW-6 (M)	4/13/2004	0.05 U	0.01 U	2 U	0.05 U
MW-6(M)	MW-6 (M)	4/13/2004			0.05 U	
MW-6(M)	MW-6 (M)	7/19/2004	0.05 U	0.01 U	2 U	0.05 U
MW-6(M)	MW-6 (M)	7/19/2004			0.05 U	
MW-7(M)	BM-7(M)	6/19/2003	0.1 U	0.1 U	2 U	0.1 U
MW-7(M)	BM-7(M)	6/19/2003			0.1 U	
MW-7(M)	MW-7(M)	6/19/2003	0.1 U	0.1 U	2 U	0.1 U
MW-7(M)	MW-7(M)	6/19/2003			0.1 U	
MW-7(M)	MW-7(M)	10/13/2003	0.05 U	0.01 U	2 U	0.05 U
MW-7(M)	MW-7(M)	10/13/2003			0.05 U	
MW-7(M)	MW-7 (M)	1/12/2004	0.05 U	0.01 U	2 U	0.05 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	1/12/2004			0.05 U	
MW-7(M)	MW-7 (M)	4/12/2004	0.05 U	0.01 U	2 U	0.05 U
MW-7(M)	MW-7 (M)	4/12/2004			0.05 U	
MW-7(M)	MW-7 (M)	7/19/2004	0.05 U	0.01 U	0.26 J	0.05 U
MW-7(M)	MW-7 (M)	7/19/2004			0.0868	
MW-10(M)	MW-10(M)	6/19/2003	2 U	0.5 U	20.6	0.5 U
MW-10(M)	MW-10(M)	6/19/2003			16.3	
MW-10(M)	MW-10 (M)	10/15/2003	0.238	0.0408	65.3	0.0589
MW-10(M)	MW-10 (M)	10/15/2003			12	
MW-10(M)	MW-10 (M)	1/13/2004	1 U	0.01 U	3 U	0.05 U
MW-10(M)	MW-10 (M)	1/13/2004			1.64	
MW-10(M)	MW-10 (M)	4/13/2004	0.187	0.02 U	5.07	0.1 U
MW-10(M)	MW-10 (M)	4/13/2004			5 U	
MW-10(M)	MW-10 (M)	7/19/2004	0.154	0.01 U	2.57	0.05 U
MW-10(M)	MW-10 (M)	7/19/2004			2.5 U	
MW-11(M)	MW-11(M)	6/19/2003	0.1 U	0.1 U	2 U	0.1 U
MW-11(M)	MW-11(M)	6/19/2003			0.35 U	
MW-11(M)	MW-11 (M)	10/15/2003	0.05 U	0.01 U	0.66 J	0.05 U
MW-11(M)	MW-11 (M)	10/15/2003			0.4 U	
MW-11(M)	MW-11 (M)	1/13/2004	0.05 U	0.01 U	0.325 U	0.05 U
MW-11(M)	MW-11 (M)	1/13/2004			2 U	
MW-11(M)	MW-11 (M)	4/13/2004	0.05 U	0.01 U	0.25 U	0.05 U
MW-11(M)	MW-11 (M)	4/13/2004			0.51 J	
MW-11(M)	MW-11 (M)	7/21/2004	0.05 U	0.01 U	2 U	0.05 U
MW-11(M)	MW-11 (M)	7/21/2004			0.11 U	
MW-12(A)	MW-12(A)	10/22/2003	0.05 U	0.01 U	2 U B	0.05 U
MW-12(A)	MW-12(A)	10/22/2003			0.05 U	
MW-12(A)	MW-12 (A)	1/15/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-12(A)	MW-12 (A)	1/15/2004			2 U	
MW-12(A)	MW-12(A)	4/16/2004	0.05 U	0.01 U	0.0873	0.05 U
MW-12(A)	MW-12(A)	4/16/2004			2 U	
MW-12(A)	MW-12 (A)	7/22/2004	0.05 U	0.01 U	0.0584	0.05 U
MW-12(A)	MW-12 (A)	7/22/2004			2 U	
MW-13(A)	MW-13(A)	10/22/2003	0.05 U	0.01 U	122	0.05 U
MW-13(A)	MW-13(A)	10/22/2003			65.4	
MW-13(A)	MW-13 (A)	1/15/2004	0.1 U	0.02 U	75.7	0.1 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-13(A)	MW-13 (A)	1/15/2004			223	
MW-13(A)	MW-13(A)	4/16/2004	0.1 U	0.02 U	282	0.1 U
MW-13(A)	MW-13(A)	4/16/2004			94.5	
MW-13(A)	MW-13 (A)	7/22/2004	0.5 U	0.1 U	118	0.5 U
MW-13(A)	MW-13 (A)	7/22/2004			122	
MW-14(A)	MW-14(A)	10/21/2003	0.05 U	0.01 U	2 U B	0.05 U
MW-14(A)	MW-14(A)	10/21/2003			0.977	
MW-14(A)	MW-14 (A)	1/15/2004	0.05 U	0.01 U	0.19 J	0.05 U
MW-14(A)	MW-14 (A)	1/15/2004			0.05 U	
MW-14(A)	MW-14(A)	4/16/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-14(A)	MW-14(A)	4/16/2004			2 U	
MW-14(A)	MW-14 (A)	7/23/2004	0.05 U	0.01 U	2 U	0.05 U
MW-14(A)	MW-14 (A)	7/23/2004			0.0668	
MW-15(A)	MW-15(A)	10/20/2003	0.0941	0.01 U	2.11 J,B	0.05 U
MW-15(A)	MW-15(A)	10/20/2003			1.28	
MW-16(A)	MW-16(A)	10/20/2003	0.05 U	0.01 U	2 U B	0.05 U
MW-16(A)	MW-16(A)	10/20/2003			0.35 U	
MW-16(A)	MW-16(A)	1/19/2004	0.05 U	0.01 U	0.28 J	0.05 U
MW-16(A)	MW-16(A)	1/19/2004			0.15 U	
MW-16(A)	MW-16(A)	4/15/2004	0.05 U	0.01 U	0.86 J	0.05 U
MW-16(A)	MW-16(A)	4/15/2004			0.45 U	
MW-16(A)	MW-16 (A)	7/22/2004	0.05 U	0.01 U	0.74	0.05 U
MW-16(A)	MW-16 (A)	7/22/2004			0.49 J	
MW-17 (A)	BM-17 (A)	7/22/2004	0.05 U	0.01 U	0.68 J	0.05 U
MW-17 (A)	BM-17 (A)	7/22/2004			0.246	
MW-17(A)	MW-17 (A)	10/17/2003	0.05 U	0.01 U	2.37	0.05 U
MW-17(A)	MW-17 (A)	10/17/2003			4.88	
MW-17(A)	BM-17(A)	1/19/2004	0.05 U	0.01 U	19.5	0.05 U
MW-17(A)	BM-17(A)	1/19/2004			0.125 U	
MW-17(A)	MW-17(A)	1/19/2004	0.05 U	0.01 U	19	0.05 U
MW-17(A)	MW-17(A)	1/19/2004			0.25 U	
MW-17(A)	MW-17(A)	4/15/2004	0.05 U	0.01 U	15.6	0.05 U
MW-17(A)	MW-17(A)	4/15/2004			5.04	
MW-17(A)	MW-17 (A)	7/22/2004	0.05 U	0.01 U	0.649	0.05 U
MW-17(A)	MW-17 (A)	7/22/2004			0.66 J	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-18(A)	MW-18(A)	10/21/2003	0.22	0.01 U	4 U B	0.05 U
MW-18(A)	MW-18(A)	10/21/2003			0.44	
MW-18(A)	MW-18(A)	1/19/2004	0.39	0.01 U	1.53 J	0.05 U
MW-18(A)	MW-18(A)	1/19/2004			0.688	
MW-18(A)	MW-18(A)	4/15/2004	0.197	0.01 U	0.119	0.05 U
MW-18(A)	MW-18(A)	4/15/2004			0.99 J	
MW-18(A)	MW-18 (A)	7/21/2004	0.113	0.01 U	0.52 J	0.05 U
MW-18(A)	MW-18 (A)	7/21/2004			0.483	
MW-19(A)	BM-19(A)	10/20/2003	0.05 U	0.01 U	2 U	0.05 U
MW-19(A)	BM-19(A)	10/20/2003			0.05 U	
MW-19(A)	MW-19(A)	10/20/2003	0.05 U	0.01 U	2 U	0.05 U
MW-19(A)	MW-19(A)	10/20/2003			0.05 U	
MW-19(A)	MW-19 (A)	1/13/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-19(A)	MW-19 (A)	1/13/2004			2 U	
MW-19(A)	MW-19(A)	4/15/2004	0.05 U	0.01 U	0.128	0.05 U
MW-19(A)	MW-19(A)	4/15/2004			2 U	
MW-19(A)	BM-19 (A)	7/20/2004	0.05 U	0.01 U	0.168	0.05 U
MW-19(A)	BM-19 (A)	7/20/2004			0.92 J	
MW-19(A)	MW-19 (A)	7/20/2004	0.05 U	0.01 U	1.09 J	0.05 U
MW-19(A)	MW-19 (A)	7/20/2004			0.15	
MW-20(A)	MW-20(A)	10/20/2003	0.434	0.01 U	11.1	0.05 U
MW-20(A)	MW-20(A)	10/20/2003			3.93	
MW-20(A)	MW-20 (A)	1/13/2004	0.527	0.01 U	9.6	0.05 U
MW-20(A)	MW-20 (A)	1/13/2004			36.5	
MW-20(A)	MW-20(A)	4/15/2004	0.312	0.02 U	0.8 U	0.1 U
MW-20(A)	MW-20(A)	4/15/2004			1.94	
MW-20(A)	MW-20 (A)	7/20/2004	0.504	0.02 U	2.77	0.1 U
MW-20(A)	MW-20 (A)	7/20/2004			5.12	
MW-21(A)	MW-21(A)	10/20/2003	0.327	0.01 U	3.04	0.05 U
MW-21(A)	MW-21(A)	10/20/2003			1.83	
MW-21(A)	BM-21 (A)	1/13/2004	0.374	0.01 U	1.75	0.05 U
MW-21(A)	BM-21 (A)	1/13/2004			3.76	
MW-21(A)	MW-21 (A)	1/13/2004	0.256	0.01 U	0.765	0.05 U
MW-21(A)	MW-21 (A)	1/13/2004			4.01	
MW-21(A)	MW-21(A)	4/16/2004	0.5 U	0.02 U	1.27	0.1 U
MW-21(A)	MW-21(A)	4/16/2004			1.11 J	
MW-21(A)	MW-21 (A)	7/20/2004	0.516	0.01 U	2.96	0.05 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21 (A)	7/20/2004			2.09	
MW-22(A)	MW-22 (A)	10/16/2003	0.05 U	0.01 U	2.61	0.05 U
MW-22(A)	MW-22 (A)	10/16/2003			40.5	
MW-22(A)	MW-22(A)	1/19/2004	0.05 U	0.01 U	2 U	0.05 U
MW-22(A)	MW-22(A)	1/19/2004			0.0931	
MW-22(A)	MW-22(A)	4/15/2004	0.05 U	0.01 U	0.0757	0.05 U
MW-22(A)	MW-22(A)	4/15/2004			0.32	
MW-22(A)	MW-22 (A)	7/20/2004	0.05 U	0.01 U	0.93	0.05 U
MW-22(A)	MW-22 (A)	7/20/2004			0.81 J	
MW-23(A)	MW-23(A)	10/20/2003	0.05 U	0.01 U	0.0617	0.05 U
MW-23(A)	MW-23(A)	10/20/2003			2 U	
MW-23(A)	MW-23 (A)	1/15/2004	0.05 U	0.01 U	0.225 U	0.05 U
MW-23(A)	MW-23 (A)	1/15/2004			2 U	
MW-23(A)	BM-23(A)	4/15/2004	0.05 U	0.01 U	1.21	0.05 U
MW-23(A)	BM-23(A)	4/15/2004			7.47	
MW-23(A)	MW-23(A)	4/15/2004	0.05 U	0.01 U	9.17	0.05 U
MW-23(A)	MW-23(A)	4/15/2004			1.14	
MW-23(A)	MW-23 (A)	7/20/2004	0.05 U	0.01 U	2 U	0.05 U
MW-23(A)	MW-23 (A)	7/20/2004			0.0525	
MW-24(A)	MW-24(A)	10/21/2003	0.05 U	0.01 U	0.05 U	0.05 U
MW-24(A)	MW-24(A)	10/21/2003			2 U B	
MW-24(A)	MW-24 (A)	1/15/2004	0.05 U	0.01 U	114	0.05 U
MW-24(A)	MW-24 (A)	1/15/2004			44.6	
MW-24(A)	MW-24(A)	4/14/2004	0.05 U	0.01 U	20.8	0.05 U
MW-24(A)	MW-24(A)	4/14/2004			40.9	
MW-24(A)	MW-24 (A)	7/22/2004	0.05 U	0.01 U	23	0.05 U
MW-24(A)	MW-24 (A)	7/22/2004			13.4	
MW-26(A)	MW-26 (A)	10/17/2003	5 U	0.01 U	280	0.05 U
MW-26(A)	MW-26 (A)	10/17/2003			107	
MW-26(A)	MW-26 (A)	1/15/2004	0.0718	0.01 U	564	0.05 U
MW-26(A)	MW-26 (A)	1/15/2004			1030	
MW-26(A)	MW-26(A)	4/14/2004	0.0595	0.01 U	801	0.05 U
MW-26(A)	MW-26(A)	4/14/2004			464	
MW-26(A)	MW-26 (A)	7/22/2004	2.5 U	0.5 U	869	2.5 U
MW-26(A)	MW-26 (A)	7/22/2004			534	

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-27(A)	MW-27(A)	10/21/2003	0.05 U	0.01 U	2 U	0.05 U
MW-27(A)	MW-27(A)	10/21/2003			0.158	
MW-27(A)	MW-27 (A)	1/14/2004	0.05 U	0.01 U	2 U	0.05 U
MW-27(A)	MW-27 (A)	1/14/2004			0.0512	
MW-27(A)	MW-27 (A)	4/14/2004	0.05 U	0.01 U	0.0763	0.05 U
MW-27(A)	MW-27 (A)	4/14/2004			2 U	
MW-27(A)	MW-27 (A)	7/22/2004	0.05 U	0.01 U	2 U	0.05 U
MW-27(A)	MW-27 (A)	7/22/2004			0.125 U	
MW-28(A)	MW-28 (A)	10/17/2003	5 U	0.01 U	157	0.05 U
MW-28(A)	MW-28 (A)	10/17/2003			112	
MW-28(A)	MW-28(A)	1/19/2004	0.076	0.01 U	398	0.05 U
MW-28(A)	MW-28(A)	1/19/2004			78.4	
MW-28(A)	MW-28(A)	4/14/2004	0.0763	0.01 U	118	0.05 U
MW-28(A)	MW-28(A)	4/14/2004			66.9	
MW-28(A)	MW-28 (A)	7/23/2004	0.5 U	0.1 U	68.6	0.5 U
MW-28(A)	MW-28 (A)	7/23/2004			113	
MW-29(A)	MW-29(A)	10/21/2003	0.0811	0.01 U	1340	0.05 U
MW-29(A)	MW-29(A)	10/21/2003			1640	
MW-29(A)	MW-29(A)	1/19/2004	0.101	0.01 U	1310	0.05 U
MW-29(A)	MW-29(A)	1/19/2004			867	
MW-29(A)	MW-29(A)	4/16/2004	0.1 U	0.02 U	1000	0.1 U
MW-29(A)	MW-29(A)	4/16/2004			806	
MW-29(A)	MW-29 (A)	7/22/2004	2.5 U	0.5 U	1360	2.5 U
MW-29(A)	MW-29 (A)	7/22/2004			1040	
MW-30(A)	MW-30 (A)	10/16/2003	0.0569	0.01 U	531	0.05 U
MW-30(A)	MW-30 (A)	10/16/2003			1130	
MW-30(A)	MW-30 (A)	1/16/2004	0.0613	0.01 U	1200	0.05 U
MW-30(A)	MW-30 (A)	1/16/2004			696	
MW-30(A)	MW-30 (A)	4/13/2004	0.05 U	0.01 U	1030	0.05 U
MW-30(A)	MW-30 (A)	4/13/2004			381	
MW-30(A)	MW-30 (A)	7/20/2004	0.0577	0.01 U	1240	0.05 U
MW-30(A)	MW-30 (A)	7/20/2004			1130	
MW-31(A)	BM-31 (A)	10/16/2003	0.0515	0.01 U	15.3 J	0.05 U
MW-31(A)	BM-31 (A)	10/16/2003			8.36	
MW-31(A)	MW-31 (A)	10/16/2003	0.0582	0.01 U	10	0.05 U
MW-31(A)	MW-31 (A)	10/16/2003			16.2	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-31(A)	MW-31 (A)	1/12/2004	0.0661	0.01 U	9.96	0.05 U
MW-31(A)	MW-31 (A)	1/12/2004			13.5	
MW-31(A)	BM-31 (A)	4/13/2004	0.05 U	0.01 U	116	0.05 U
MW-31(A)	BM-31 (A)	4/13/2004			67.6	
MW-31(A)	MW-31 (A)	4/13/2004	0.1 U	0.02 U	64.1	0.1 U
MW-31(A)	MW-31 (A)	4/13/2004			145	
MW-31(A)	MW-31 (A)	7/20/2004	0.05 U	0.01 U	167	0.05 U
MW-31(A)	MW-31 (A)	7/20/2004			191	
MW-32(A)	MW-32(A)	10/14/2003	0.05 U	0.01 U	2 U	0.05 U
MW-32(A)	MW-32(A)	10/14/2003			0.05 U	
MW-32(A)	MW-32 (A)	1/12/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-32(A)	MW-32 (A)	1/12/2004			2 U	
MW-32(A)	MW-32 (A)	4/13/2004	0.05 U	0.01 U	0.075 U	0.05 U
MW-32(A)	MW-32 (A)	4/13/2004			2 U	
MW-32(A)	MW-32 (A)	7/19/2004	0.05 U	0.01 U	2 U	0.05 U
MW-32(A)	MW-32 (A)	7/19/2004			0.05 U	
MW-33(A)	MW-33(A)	10/14/2003	0.05 U	0.01 U	2 U	0.05 U
MW-33(A)	MW-33(A)	10/14/2003			0.07 U	
MW-33(A)	MW-33 (A)	1/12/2004	0.05 U	0.01 U	0.175 U B	0.05 U
MW-33(A)	MW-33 (A)	1/12/2004			0.19 J	
MW-33(A)	MW-33 (A)	4/13/2004	0.05 U	0.01 U	2 U	0.05 U
MW-33(A)	MW-33 (A)	4/13/2004			0.65 U	
MW-33(A)	MW-33 (A)	7/19/2004	0.05 U	0.01 U	2 U	0.05 U
MW-33(A)	MW-33 (A)	7/19/2004			0.825 U	
MW-34(A)	MW-34(A)	10/14/2003	0.05 U	0.01 U	2 U	0.05 U
MW-34(A)	MW-34(A)	10/14/2003			0.0623	
MW-34(A)	MW-34 (A)	1/13/2004	0.05 U	0.01 U	0.116	0.05 U
MW-34(A)	MW-34 (A)	1/13/2004			2 U	
MW-34(A)	MW-34 (A)	4/14/2004	0.05 U	0.01 U	0.162	0.05 U
MW-34(A)	MW-34 (A)	4/14/2004			2 U	
MW-34(A)	MW-34 (A)	7/20/2004	0.05 U	0.012	2 U	0.05 U
MW-34(A)	MW-34 (A)	7/20/2004			0.05 U	
MW-35(A)	MW-35 (A)	10/16/2003	0.05 U	0.01 U	1.04 J	0.05 U
MW-35(A)	MW-35 (A)	10/16/2003			0.124	
MW-35(A)	MW-35 (A)	1/16/2004	0.05 U	0.01 U	0.31 J	0.05 U
MW-35(A)	MW-35 (A)	1/16/2004			0.349	

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Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-35(A)	MW-35 (A)	4/13/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-35(A)	MW-35 (A)	4/13/2004			2 U	
MW-35(A)	MW-35 (A)	7/20/2004	0.05 U	0.01 U	2 U	0.05 U
MW-35(A)	MW-35 (A)	7/20/2004			0.05 U	
MW-36(A)	MW-36(A)	10/21/2003	0.05 U	0.01 U	2 U	0.05 U
MW-36(A)	MW-36(A)	10/21/2003			0.05 U	
MW-36(A)	MW-36 (A)	1/14/2004	0.05 U	0.01 U	0.68 J	0.05 U
MW-36(A)	MW-36 (A)	1/14/2004			0.05 U	
MW-36(A)	MW-36 (A)	4/14/2004	0.05 U	0.01 U	0.84 J	0.05 U
MW-36(A)	MW-36 (A)	4/14/2004			0.214	
MW-36(A)	MW-36 (A)	7/22/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-36(A)	MW-36 (A)	7/22/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-36(A)	MW-36 (A)	7/22/2004			2 U	
MW-37(A)	MW-37 (A)	10/17/2003	0.05 U	0.01 U	21.5	0.05 U
MW-37(A)	MW-37 (A)	10/17/2003			11.1	
MW-38(A)	MW-38(A)	10/21/2003	0.05 U	0.01 U	2 U	0.05 U
MW-38(A)	MW-38(A)	10/21/2003			0.05 U	
MW-38(A)	MW-38 (A)	1/14/2004	0.05 U	0.01 U	2 U B	0.05 U
MW-38(A)	MW-38 (A)	1/14/2004			0.121	
MW-38(A)	MW-38 (A)	4/14/2004	0.05 U	0.01 U	0.5 J	0.05 U
MW-38(A)	MW-38 (A)	4/14/2004			0.05 U	
MW-38(A)	MW-38 (A)	7/22/2004	0.05 U	0.01 U	0.48 J	0.05 U
MW-38(A)	MW-38 (A)	7/22/2004			0.05 U	
MW-39(A)	MW-39 (A)	10/16/2003	2.24	0.01 U	17.7	0.05 U
MW-39(A)	MW-39 (A)	10/16/2003			22.8	
MW-39(A)	MW-39 (A)	1/16/2004	1.04	0.01 U	23.4	0.05 U
MW-39(A)	MW-39 (A)	1/16/2004			17.3	
MW-39(A)	MW-39 (A)	4/14/2004	0.633	0.01 U	18.7	0.05 U
MW-39(A)	MW-39 (A)	4/14/2004			4.14	
MW-39(A)	MW-39 (A)	7/21/2004	1.67	0.01 U	13.8	0.05 U
MW-39(A)	MW-39 (A)	7/21/2004			10.7	
MW-39(A)	Trip Blank	7/21/2004			2 U	
MW-39(A)	Trip Blank	7/22/2004			2 U	
MW-40(A)	MW-40 (A)	10/17/2003	0.618	0.01 U	82.5	0.05 U
MW-40(A)	MW-40 (A)	10/17/2003			43.8	

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Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-40(A)	MW-40(A)	1/20/2004	0.72	0.02 U	1220	0.1 U
MW-40(A)	MW-40(A)	1/20/2004			682	
MW-40(A)	MW-40(A)	4/16/2004	1.16	0.04 U	1500	0.2 U
MW-40(A)	MW-40(A)	4/16/2004			850	
MW-41(A)	MW-41(A)	10/14/2003	4.97	0.01 U	105	0.2
MW-41(A)	MW-41(A)	10/14/2003			82.3	
MW-42(A)	MW-42 (A)	10/15/2003	2.56	0.01 U	190	0.05 U
MW-42(A)	MW-42 (A)	10/15/2003			141	
MW-43(A)	MW-43(A)	10/13/2003	0.05 U	0.01 U	2 U	0.05 U
MW-43(A)	MW-43(A)	10/13/2003			0.05 U	
MW-43(A)	MW-43 (A)	1/12/2004	0.05 U	0.01 U	2 U	0.05 U
MW-43(A)	MW-43 (A)	1/12/2004			0.05 U	
MW-43(A)	MW-43 (A)	4/13/2004	0.05 U	0.01 U	2 U	0.05 U
MW-43(A)	MW-43 (A)	4/13/2004			0.05 U	
MW-43(A)	MW-43 (A)	7/21/2004	0.05 U	0.01 U	0.0605	0.05 U
MW-43(A)	MW-43 (A)	7/21/2004			2 U	
MW-44(A)	MW-44 (A)	10/17/2003	0.362	0.01 U	1050	0.05 U
MW-44(A)	MW-44 (A)	10/17/2003			696	
MW-45(A)	MW-45 (A)	10/16/2003	0.05 U	0.01 U	1.11 J	0.05 U
MW-45(A)	MW-45 (A)	10/16/2003			0.0896	
MW-45(A)	MW-45 (A)	1/16/2004	0.05 U	0.01 U	2 U	0.05 U
MW-45(A)	MW-45 (A)	1/16/2004			0.05 U	
MW-45(A)	MW-45 (A)	4/14/2004	0.05 U	0.01 U	2 U	0.05 U
MW-45(A)	MW-45 (A)	4/14/2004			0.0798	
MW-45(A)	MW-45 (A)	7/21/2004	0.05 U	0.01 U	2 U	0.05 U
MW-45(A)	MW-45 (A)	7/21/2004			0.225 U	
MW-46(A)	MW-46(A)	10/14/2003	0.05 U	0.01 U	2 U	0.05 U
MW-46(A)	MW-46(A)	10/14/2003			0.05 U	
MW-46(A)	MW-46(A)	1/14/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-46(A)	MW-46(A)	1/14/2004			2 U	
MW-46(A)	MW-46 (A)	4/12/2004	0.05 U	0.01 U	2 U	0.05 U
MW-46(A)	MW-46 (A)	4/12/2004			0.0526	
MW-46(A)	MW-46 (A)	7/21/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-46(A)	MW-46 (A)	7/21/2004			2 U	

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Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
MW-47(A)	MW-47(A)	10/13/2003	0.05 U	0.01 U	2 U	0.05 U
MW-47(A)	MW-47(A)	10/13/2003			0.05 U	
MW-47(A)	MW-47 (A)	1/14/2004	0.05 U	0.01 U	0.0783	0.05 U
MW-47(A)	MW-47 (A)	1/14/2004			2 U	
MW-47(A)	MW-47 (A)	4/12/2004	0.05 U	0.01 U	2 U	0.05 U
MW-47(A)	MW-47 (A)	4/12/2004			0.05 U	
MW-47(A)	MW-47 (A)	7/21/2004	0.05 U	0.01 U	0.05 U	0.05 U
MW-47(A)	MW-47 (A)	7/21/2004			2 U	
MW-48(A)	MW-48(A)	10/14/2003	0.204	0.01 U	0.76 J	0.0812
MW-48(A)	MW-48(A)	10/14/2003			0.538	
MW-48(A)	MW-48 (A)	1/14/2004	0.0763	0.01 U	0.397	0.05 U
MW-48(A)	MW-48 (A)	1/14/2004			2 U	
MW-48(A)	MW-48 (A)	4/12/2004	0.0569	0.01 U	0.244	0.0729
MW-48(A)	MW-48 (A)	4/12/2004			2 U	
MW-48(A)	MW-48 (A)	7/21/2004	0.0602	0.014	2 U	0.0883
MW-48(A)	MW-48 (A)	7/21/2004			0.457	
R-1(M)	R-1(M)	10/22/2003	0.05 U	0.01 U	2 U B	0.05 U
R-1(M)	R-1(M)	10/22/2003			0.0972	
TW-100(C)	SB100(C)W	8/22/2002	0.05 U	0.01 U	0.5 U	0.05 U
TW-100(C)	SB100(C)W	8/22/2002			0.05 U	
TW-103(C)	SB103(C)W	8/22/2002			0.5 U	
TW-104(C)	SB104(C)W	8/22/2002			0.5 U	
TW-200(C)	SB200(C)W	8/22/2002	0.05 U	0.01 U	0.5 U	0.05 U
TW-200(C)	SB200(C)W	8/22/2002			0.05 U	
TW-201(C)	SB201(C)W	8/22/2002	0.05 U	0.01 U	0.5 U	0.05 U
TW-201(C)	SB201(C)W	8/22/2002			0.05 U	
TW-202(C)	SB202(C)W	8/22/2002	0.255	0.01 U	0.5 U	0.05 U
TW-202(C)	SB202(C)W	8/22/2002			0.2 U	
TW-203(C)	SB203(C)W	8/22/2002	0.05 U	0.01 U	0.5 U	0.05 U
TW-203(C)	SB203(C)W	8/22/2002			0.3 U	
TW-204(C)	SB204(C)W	8/22/2002	0.05 U	0.01 U	0.5 U	0.05 U
TW-204(C)	SB204(C)W	8/22/2002			0.05 U	
TW-204(C)	SB204(C)W2	8/22/2002	0.05 U	0.01 U	0.5 U	0.05 U
TW-204(C)	SB204(C)W2	8/22/2002			0.05 U	

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Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
TW-304(D)	SB-304-D-9.0	8/19/2002	5 U	0.01 U	6.27	0.05 U
TW-304(D)	SB-304-D-9.0 D	8/19/2002	5 U	0.01 U	5.37	0.05 U
TW-305(D)	SB-305-D-9.0	8/19/2002	17.2	0.5 U	447	2.5 U
TW-305(D)	SB-305-D-9.0	8/19/2002			220	
TW-306(D)	SB-306-D-9.0	8/19/2002	1.59	0.01 U	3.49	0.25 U
TW-307(D)	SB-307-D-9.0	8/19/2002	5 U	0.01 U	68.5	0.08 U
TW-309(D)	SB-309-D-9.0	8/19/2002	0.05 U	0.01 U	0.47 U	0.05 U
TW-309(D)	SB-309-D-9.0	8/19/2002			0.066	
TW-311(D)	SB-311-D-10.0	8/19/2002	0.05 U	0.01 U	0.901	0.05 U
TW-312(D)	SB-312-D-10.0	8/19/2002	0.05 U	0.01 U	2 U	0.05 U
TW-312(D)	SB-312-D-10.0	8/19/2002			0.05 U	
TW-313(D)	TW-313-D-22.0	8/20/2002	0.05 U	0.01 U	58.7	0.05 U
TW-314(D)	TW-314-D-22.0	8/20/2002	0.05 U	0.01 U	13.3	0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002	0.05 U	0.01 U	0.15 U	0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002			0.25	
TW-319(D)	SB-319-D-14.0	8/19/2002	0.05 U	0.01 U	0.05 U	0.05 U
TW-400(F)	TW-400(F)	8/22/2002	0.05 U	0.01 U	0.05 U	0.05 U
TW-600(N)	TW-600(N)	9/13/2002	0.0613	0.25 U	232	0.25 U
TW-600(N)	TW-600(N)	9/13/2002			175	
TW-601(N)	TW-601(N)	9/13/2002	0.0613	0.01 U	94.6	2.5 U
TW-601(N)	TW-601(N)	9/13/2002			73.2	
TW-602(N)	BT-602(N)	9/13/2002	0.05 U	0.01 U	2 U	0.05 U
TW-602(N)	BT-602(N)	9/13/2002			0.392	
TW-602(N)	TW-602(N)	9/13/2002	0.05 U	0.01 U	2 U	0.05 U
TW-602(N)	TW-602(N)	9/13/2002			1.51	
TW-603(N)	TW-603(N)	9/13/2002	0.0566	0.01 U	2 U	0.05 U
TW-603(N)	TW-603(N)	9/13/2002			9.92	
TW-608(N)	TW-608 (N)	9/13/2002	0.05 U	0.01 U	2 U	0.05 U
TW-608(N)	TW-608 (N)	9/13/2002			0.05 U	
TW-612(N)	TW-612(N)	9/12/2002	1.3	0.05 U	100 U	0.05 U
TW-612(N)	TW-612(N)	9/12/2002			22.9	
TW-616(N)	TW-616(N)	9/12/2002	0.05 U	0.01 U	2 U	0.05 U
TW-616(N)	TW-616(N)	9/12/2002			0.339	
TW-619(N)	TW-619(N)	9/12/2002	0.0906	0.01 U	34	0.05 U
TW-619(N)	TW-619(N)	9/12/2002			28	
TW-623(N)	TW-623(N)	9/12/2002	0.353	0.01 U	21.6	0.05 U
TW-623(N)	TW-623(N)	9/12/2002			12.3	
TW-624(N)	TW-624(N)	9/12/2002	5 U	5 U	55.9	5 U

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Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
TW-624(N)	TW-624(N)	9/12/2002			5 U	
TW-625(N)	BT-625(N)	9/12/2002	0.05 U	0.01 U	0.05 U	0.05 U
TW-625(N)	TW-625(N)	9/12/2002	0.05 U	0.01 U	0.05 U	0.05 U
TW-700(P)	TW-700(P)	8/21/2002	1 U J	1 U J	459	1 U J
TW-700(P)	TW-700(P)	8/21/2002			41 J	
TW-701(P)	TW-701(P)	8/20/2002			236	
TW-702(P)	TW-702(P)	8/21/2002	0.05 U J	0.01 U J	0.5 U	0.05 U J
TW-702(P)	TW-702(P)	8/21/2002			0.05 U J	
TW-703(P)	TW-703(P)	8/21/2002			4.24	
TW-704(P)	TW-704(P)	8/21/2002			3.23	
TW-705(P)	TW-705(P)	8/20/2002	0.0571 U J	0.0114 U J	0.0571 U J	0.0571 U J
TW-706(P)	TW-706(P)	8/21/2002			94.3	
TW-707(P)	TW-707(P)	8/21/2002			0.5 U	
TW-708(P)	BT-708(P)	8/20/2002	2 U J	0.01 U J	6.42 JB	2 U J
TW-708(P)	BT-708(P)	8/20/2002			10.1	
TW-708(P)	TW-708(P)	8/20/2002	2.5 U J	2.5 U J	20 U	2.5 U J
TW-708(P)	TW-708(P)	8/20/2002			6.44 J	
TW-709(P)	TW-709(P)	8/21/2002			0.5 U	
TW-710(P)	TW-710(P)	8/21/2002	0.05 U J	0.01 U J	0.5 U	0.05 U J
TW-710(P)	TW-710(P)	8/21/2002			0.05 U J	
TW-711(P)	BT-711(P)	8/21/2002			0.5 U	
TW-711(P)	TW-711(P)	8/21/2002			0.5 U	
TW-712(P)	TW-712(P)	8/21/2002	0.05 U J	0.01 U J	0.5 U	0.05 U J
TW-712(P)	TW-712(P)	8/21/2002			0.05 U J	
TW-714(P)	TW-714(P)	8/21/2002	2.3 J	2.5 U J	965	2.5 U J
TW-714(P)	TW-714(P)	8/21/2002			258 J	
TW-716(P)	TW-716(P)	8/20/2002	0.05 U J	0.01 U J	0.5 U	0.05 U J
TW-716(P)	TW-716(P)	8/20/2002			0.05 U J	
TW-717(P)	TW-717(P)	8/20/2002	0.133 J	0.01 U J	0.5 U	0.2 U J
TW-717(P)	TW-717(P)	8/20/2002			0.2 U J	
TW-718(P)	TW-718(P)	8/21/2002	0.05 U J	0.01 U J	2 U	0.05 U J
TW-718(P)	TW-718(P)	8/21/2002			0.05 U J	
TW-719(P)	BT-719(P)	8/23/2002	0.05 U	0.01 U	2 U	0.05 U
TW-719(P)	BT-719(P)	8/23/2002			0.5 U	
TW-719(P)	TW-719(P)	8/23/2002	0.05 U	0.01 U	0.25 J	0.05 U
TW-719(P)	TW-719(P)	8/23/2002			0.5 U	
TW-720(P)	TW-720(P)	8/23/2002	5 U	0.05 U	744	0.05 U
TW-720(P)	TW-720(P)	8/23/2002			423	

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Locator ID	Sample ID	Sample Date	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L	ug/L
TW-900(S)	SB-900(TW)	8/26/2002	0.05 U	0.01 U	1 U	0.05 U
TW-901(S)	SB-901(TW)	8/26/2002	0.57 J	1 U	12.5	1 U
TW-901(S)	SB-901(TW)	8/26/2002			19.9	
TW-902(S)	SB-902(TW)	8/26/2002	2.03	0.5 U	11.2	0.5 U
TW-903(S)	SB-903(TW)	8/26/2002	2.68	0.2 U	2 U	0.2 U
TW-903(S)	SB-903(TW)	8/26/2002			3.1	
TW-904(S)	SB-904(TW)	8/26/2002	1.18	0.1 U	2 U	0.1 U
TW-904(S)	SB-904(TW)	8/26/2002			31.6	
TW-905(S)	SB-905(TW)	8/26/2002			18.4 J	
TW-906(S)	SB-906(TW)	8/27/2002	0.232	0.01 U	2.29	0.05 U
TW-906(S)	SB-906(TW)	8/27/2002			0.745	
TW-908(S)	SB-908(TW)	8/27/2002	0.05 U	0.01 U	2 U	0.05 U
TW-908(S)	SB-908(TW)	8/27/2002			0.1 U	
TW-909(S)	SB-909(TW)	8/27/2002	0.05 U	0.01 U	1.1 U	0.05 U
TW-910(S)	SB-910(TW)	8/26/2002	1.08	0.01 U	0.61	0.05 U
TW-911(S)	SB-911(TW)	8/27/2002	0.377 J	0.1 U	2 U	0.1 U
TW-911(S)	SB-911(TW)	8/27/2002			0.5 U	

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1(F)	10/22/2003								
MW-1(F)	MW-1(F)	10/22/2003								
MW-1(F)	MW-1 (F)	1/15/2004								
MW-1(F)	MW-1 (F)	1/15/2004								
MW-1(F)	MW-1(F)	4/15/2004								
MW-1(F)	MW-1(F)	4/15/2004								
MW-1(F)	MW-1 (F)	7/20/2004								
MW-1(F)	MW-1 (F)	7/20/2004								
MW-2(M)	MW-2(M)	6/19/2003								
MW-2(M)	MW-2(M)	6/19/2003								
MW-2(M)	MW-2 (M)	10/15/2003								
MW-2(M)	MW-2 (M)	10/15/2003								
MW-2(M)	MW-2 (M)	1/12/2004								
MW-2(M)	MW-2 (M)	1/12/2004								
MW-2(M)	MW-2(M)	4/14/2004								
MW-2(M)	MW-2(M)	4/14/2004								
MW-2(M)	MW-2 (M)	7/22/2004								
MW-2(M)	MW-2 (M)	7/22/2004								
MW-6(M)	MW-6(M)	6/19/2003								
MW-6(M)	MW-6(M)	6/19/2003								
MW-6(M)	MW-6(M)	10/22/2003								
MW-6(M)	MW-6(M)	10/22/2003								
MW-6(M)	MW-6 (M)	1/12/2004								
MW-6(M)	MW-6 (M)	1/12/2004								
MW-6(M)	MW-6 (M)	4/13/2004								
MW-6(M)	MW-6 (M)	4/13/2004								
MW-6(M)	MW-6 (M)	7/19/2004								
MW-6(M)	MW-6 (M)	7/19/2004								
MW-7(M)	BM-7(M)	6/19/2003								
MW-7(M)	BM-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	10/13/2003								
MW-7(M)	MW-7(M)	10/13/2003								
MW-7(M)	MW-7 (M)	1/12/2004								
MW-7(M)	MW-7 (M)	1/12/2004								
MW-7(M)	MW-7 (M)	4/12/2004								
MW-7(M)	MW-7 (M)	4/12/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	7/19/2004								
MW-7(M)	MW-7 (M)	7/19/2004								
MW-10(M)	MW-10(M)	6/19/2003								
MW-10(M)	MW-10(M)	6/19/2003								
MW-10(M)	MW-10 (M)	10/15/2003								
MW-10(M)	MW-10 (M)	10/15/2003								
MW-10(M)	MW-10 (M)	1/13/2004								
MW-10(M)	MW-10 (M)	1/13/2004								
MW-10(M)	MW-10 (M)	4/13/2004								
MW-10(M)	MW-10 (M)	4/13/2004								
MW-10(M)	MW-10 (M)	7/19/2004								
MW-10(M)	MW-10 (M)	7/19/2004								
MW-11(M)	MW-11(M)	6/19/2003								
MW-11(M)	MW-11(M)	6/19/2003								
MW-11(M)	MW-11 (M)	10/15/2003								
MW-11(M)	MW-11 (M)	10/15/2003								
MW-11(M)	MW-11 (M)	1/13/2004								
MW-11(M)	MW-11 (M)	1/13/2004								
MW-11(M)	MW-11 (M)	4/13/2004								
MW-11(M)	MW-11 (M)	4/13/2004								
MW-11(M)	MW-11 (M)	7/21/2004								
MW-11(M)	MW-11 (M)	7/21/2004								
MW-12(A)	MW-12(A)	10/22/2003								
MW-12(A)	MW-12(A)	10/22/2003								
MW-12(A)	MW-12 (A)	1/15/2004								
MW-12(A)	MW-12 (A)	1/15/2004								
MW-12(A)	MW-12(A)	4/16/2004								
MW-12(A)	MW-12(A)	4/16/2004								
MW-12(A)	MW-12 (A)	7/22/2004								
MW-12(A)	MW-12 (A)	7/22/2004								
MW-13(A)	MW-13(A)	10/22/2003								
MW-13(A)	MW-13(A)	10/22/2003								
MW-13(A)	MW-13 (A)	1/15/2004								
MW-13(A)	MW-13 (A)	1/15/2004								
MW-13(A)	MW-13(A)	4/16/2004								
MW-13(A)	MW-13(A)	4/16/2004								
MW-13(A)	MW-13 (A)	7/22/2004								
MW-13(A)	MW-13 (A)	7/22/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-14(A)	MW-14(A)	10/21/2003								
MW-14(A)	MW-14(A)	10/21/2003								
MW-14(A)	MW-14 (A)	1/15/2004								
MW-14(A)	MW-14 (A)	1/15/2004								
MW-14(A)	MW-14(A)	4/16/2004								
MW-14(A)	MW-14(A)	4/16/2004								
MW-14(A)	MW-14 (A)	7/23/2004								
MW-14(A)	MW-14 (A)	7/23/2004								
MW-15(A)	MW-15(A)	10/20/2003								
MW-15(A)	MW-15(A)	10/20/2003								
MW-16(A)	MW-16(A)	10/20/2003								
MW-16(A)	MW-16(A)	10/20/2003								
MW-16(A)	MW-16(A)	1/19/2004								
MW-16(A)	MW-16(A)	1/19/2004								
MW-16(A)	MW-16(A)	4/15/2004								
MW-16(A)	MW-16(A)	4/15/2004								
MW-16(A)	MW-16 (A)	7/22/2004								
MW-16(A)	MW-16 (A)	7/22/2004								
MW-17 (A)	BM-17 (A)	7/22/2004								
MW-17 (A)	BM-17 (A)	7/22/2004								
MW-17(A)	MW-17 (A)	10/17/2003								
MW-17(A)	MW-17 (A)	10/17/2003								
MW-17(A)	BM-17(A)	1/19/2004								
MW-17(A)	BM-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	4/15/2004								
MW-17(A)	MW-17(A)	4/15/2004								
MW-17(A)	MW-17 (A)	7/22/2004								
MW-17(A)	MW-17 (A)	7/22/2004								
MW-18(A)	MW-18(A)	10/21/2003								
MW-18(A)	MW-18(A)	10/21/2003								
MW-18(A)	MW-18(A)	1/19/2004								
MW-18(A)	MW-18(A)	1/19/2004								
MW-18(A)	MW-18(A)	4/15/2004								
MW-18(A)	MW-18(A)	4/15/2004								
MW-18(A)	MW-18 (A)	7/21/2004								
MW-18(A)	MW-18 (A)	7/21/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-19(A)	BM-19(A)	10/20/2003								
MW-19(A)	BM-19(A)	10/20/2003								
MW-19(A)	MW-19(A)	10/20/2003								
MW-19(A)	MW-19(A)	10/20/2003								
MW-19(A)	MW-19 (A)	1/13/2004								
MW-19(A)	MW-19 (A)	1/13/2004								
MW-19(A)	MW-19(A)	4/15/2004								
MW-19(A)	MW-19(A)	4/15/2004								
MW-19(A)	BM-19 (A)	7/20/2004								
MW-19(A)	BM-19 (A)	7/20/2004								
MW-19(A)	MW-19 (A)	7/20/2004								
MW-19(A)	MW-19 (A)	7/20/2004								
MW-20(A)	MW-20(A)	10/20/2003								
MW-20(A)	MW-20(A)	10/20/2003								
MW-20(A)	MW-20 (A)	1/13/2004								
MW-20(A)	MW-20 (A)	1/13/2004								
MW-20(A)	MW-20(A)	4/15/2004								
MW-20(A)	MW-20(A)	4/15/2004								
MW-20(A)	MW-20 (A)	7/20/2004								
MW-20(A)	MW-20 (A)	7/20/2004								
MW-21(A)	MW-21(A)	10/20/2003								
MW-21(A)	MW-21(A)	10/20/2003								
MW-21(A)	BM-21 (A)	1/13/2004								
MW-21(A)	BM-21 (A)	1/13/2004								
MW-21(A)	MW-21 (A)	1/13/2004								
MW-21(A)	MW-21 (A)	1/13/2004								
MW-21(A)	MW-21(A)	4/16/2004								
MW-21(A)	MW-21(A)	4/16/2004								
MW-21(A)	MW-21 (A)	7/20/2004								
MW-21(A)	MW-21 (A)	7/20/2004								
MW-22(A)	MW-22 (A)	10/16/2003								
MW-22(A)	MW-22 (A)	10/16/2003								
MW-22(A)	MW-22(A)	1/19/2004								
MW-22(A)	MW-22(A)	1/19/2004								
MW-22(A)	MW-22(A)	4/15/2004								
MW-22(A)	MW-22(A)	4/15/2004								
MW-22(A)	MW-22 (A)	7/20/2004								
MW-22(A)	MW-22 (A)	7/20/2004								
MW-23(A)	MW-23(A)	10/20/2003								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-23(A)	MW-23(A)	10/20/2003								
MW-23(A)	MW-23 (A)	1/15/2004								
MW-23(A)	MW-23 (A)	1/15/2004								
MW-23(A)	BM-23(A)	4/15/2004								
MW-23(A)	BM-23(A)	4/15/2004								
MW-23(A)	MW-23(A)	4/15/2004								
MW-23(A)	MW-23(A)	4/15/2004								
MW-23(A)	MW-23 (A)	7/20/2004								
MW-23(A)	MW-23 (A)	7/20/2004								
MW-24(A)	MW-24(A)	10/21/2003								
MW-24(A)	MW-24(A)	10/21/2003								
MW-24(A)	MW-24 (A)	1/15/2004								
MW-24(A)	MW-24 (A)	1/15/2004								
MW-24(A)	MW-24(A)	4/14/2004								
MW-24(A)	MW-24(A)	4/14/2004								
MW-24(A)	MW-24 (A)	7/22/2004								
MW-24(A)	MW-24 (A)	7/22/2004								
MW-26(A)	MW-26 (A)	10/17/2003								
MW-26(A)	MW-26 (A)	10/17/2003								
MW-26(A)	MW-26 (A)	1/15/2004								
MW-26(A)	MW-26 (A)	1/15/2004								
MW-26(A)	MW-26(A)	4/14/2004								
MW-26(A)	MW-26(A)	4/14/2004								
MW-26(A)	MW-26 (A)	7/22/2004								
MW-26(A)	MW-26 (A)	7/22/2004								
MW-27(A)	MW-27(A)	10/21/2003								
MW-27(A)	MW-27(A)	10/21/2003								
MW-27(A)	MW-27 (A)	1/14/2004								
MW-27(A)	MW-27 (A)	1/14/2004								
MW-27(A)	MW-27 (A)	4/14/2004								
MW-27(A)	MW-27 (A)	4/14/2004								
MW-27(A)	MW-27 (A)	7/22/2004								
MW-27(A)	MW-27 (A)	7/22/2004								
MW-28(A)	MW-28 (A)	10/17/2003								
MW-28(A)	MW-28 (A)	10/17/2003								
MW-28(A)	MW-28(A)	1/19/2004								
MW-28(A)	MW-28(A)	1/19/2004								
MW-28(A)	MW-28(A)	4/14/2004								
MW-28(A)	MW-28(A)	4/14/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28 (A)	7/23/2004								
MW-28(A)	MW-28 (A)	7/23/2004								
MW-29(A)	MW-29(A)	10/21/2003								
MW-29(A)	MW-29(A)	10/21/2003								
MW-29(A)	MW-29(A)	1/19/2004								
MW-29(A)	MW-29(A)	1/19/2004								
MW-29(A)	MW-29(A)	4/16/2004								
MW-29(A)	MW-29(A)	4/16/2004								
MW-29(A)	MW-29 (A)	7/22/2004								
MW-29(A)	MW-29 (A)	7/22/2004								
MW-30(A)	MW-30 (A)	10/16/2003								
MW-30(A)	MW-30 (A)	10/16/2003								
MW-30(A)	MW-30 (A)	1/16/2004								
MW-30(A)	MW-30 (A)	1/16/2004								
MW-30(A)	MW-30 (A)	4/13/2004								
MW-30(A)	MW-30 (A)	4/13/2004								
MW-30(A)	MW-30 (A)	7/20/2004								
MW-30(A)	MW-30 (A)	7/20/2004								
MW-31(A)	BM-31 (A)	10/16/2003								
MW-31(A)	BM-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	1/12/2004								
MW-31(A)	MW-31 (A)	1/12/2004								
MW-31(A)	BM-31 (A)	4/13/2004								
MW-31(A)	BM-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	7/20/2004								
MW-31(A)	MW-31 (A)	7/20/2004								
MW-32(A)	MW-32(A)	10/14/2003								
MW-32(A)	MW-32(A)	10/14/2003								
MW-32(A)	MW-32 (A)	1/12/2004								
MW-32(A)	MW-32 (A)	1/12/2004								
MW-32(A)	MW-32 (A)	4/13/2004								
MW-32(A)	MW-32 (A)	4/13/2004								
MW-32(A)	MW-32 (A)	7/19/2004								
MW-32(A)	MW-32 (A)	7/19/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-33(A)	MW-33(A)	10/14/2003								
MW-33(A)	MW-33(A)	10/14/2003								
MW-33(A)	MW-33 (A)	1/12/2004								
MW-33(A)	MW-33 (A)	1/12/2004								
MW-33(A)	MW-33 (A)	4/13/2004								
MW-33(A)	MW-33 (A)	4/13/2004								
MW-33(A)	MW-33 (A)	7/19/2004								
MW-33(A)	MW-33 (A)	7/19/2004								
MW-34(A)	MW-34(A)	10/14/2003								
MW-34(A)	MW-34(A)	10/14/2003								
MW-34(A)	MW-34 (A)	1/13/2004								
MW-34(A)	MW-34 (A)	1/13/2004								
MW-34(A)	MW-34 (A)	4/14/2004								
MW-34(A)	MW-34 (A)	4/14/2004								
MW-34(A)	MW-34 (A)	7/20/2004								
MW-34(A)	MW-34 (A)	7/20/2004								
MW-35(A)	MW-35 (A)	10/16/2003								
MW-35(A)	MW-35 (A)	10/16/2003								
MW-35(A)	MW-35 (A)	1/16/2004								
MW-35(A)	MW-35 (A)	1/16/2004								
MW-35(A)	MW-35 (A)	4/13/2004								
MW-35(A)	MW-35 (A)	4/13/2004								
MW-35(A)	MW-35 (A)	7/20/2004								
MW-35(A)	MW-35 (A)	7/20/2004								
MW-36(A)	MW-36(A)	10/21/2003								
MW-36(A)	MW-36(A)	10/21/2003								
MW-36(A)	MW-36 (A)	1/14/2004								
MW-36(A)	MW-36 (A)	1/14/2004								
MW-36(A)	MW-36 (A)	4/14/2004								
MW-36(A)	MW-36 (A)	4/14/2004								
MW-36(A)	MW-36 (A)	7/22/2004								
MW-36(A)	MW-36 (A)	7/22/2004								
MW-36(A)	MW-36 (A)	7/22/2004								
MW-37(A)	MW-37 (A)	10/17/2003								
MW-37(A)	MW-37 (A)	10/17/2003								
MW-38(A)	MW-38(A)	10/21/2003								
MW-38(A)	MW-38(A)	10/21/2003								
MW-38(A)	MW-38 (A)	1/14/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	1/14/2004								
MW-38(A)	MW-38 (A)	4/14/2004								
MW-38(A)	MW-38 (A)	4/14/2004								
MW-38(A)	MW-38 (A)	7/22/2004								
MW-38(A)	MW-38 (A)	7/22/2004								
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	1/16/2004								
MW-39(A)	MW-39 (A)	1/16/2004								
MW-39(A)	MW-39 (A)	4/14/2004								
MW-39(A)	MW-39 (A)	4/14/2004								
MW-39(A)	MW-39 (A)	7/21/2004								
MW-39(A)	MW-39 (A)	7/21/2004								
MW-39(A)	Trip Blank	7/21/2004								
MW-39(A)	Trip Blank	7/22/2004								
MW-40(A)	MW-40 (A)	10/17/2003								
MW-40(A)	MW-40 (A)	10/17/2003								
MW-40(A)	MW-40(A)	1/20/2004								
MW-40(A)	MW-40(A)	1/20/2004								
MW-40(A)	MW-40(A)	4/16/2004								
MW-40(A)	MW-40(A)	4/16/2004								
MW-41(A)	MW-41(A)	10/14/2003								
MW-41(A)	MW-41(A)	10/14/2003								
MW-42(A)	MW-42 (A)	10/15/2003								
MW-42(A)	MW-42 (A)	10/15/2003								
MW-43(A)	MW-43(A)	10/13/2003								
MW-43(A)	MW-43(A)	10/13/2003								
MW-43(A)	MW-43 (A)	1/12/2004								
MW-43(A)	MW-43 (A)	1/12/2004								
MW-43(A)	MW-43 (A)	4/13/2004								
MW-43(A)	MW-43 (A)	4/13/2004								
MW-43(A)	MW-43 (A)	7/21/2004								
MW-43(A)	MW-43 (A)	7/21/2004								
MW-44(A)	MW-44 (A)	10/17/2003								
MW-44(A)	MW-44 (A)	10/17/2003								
MW-45(A)	MW-45 (A)	10/16/2003								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-45(A)	MW-45 (A)	10/16/2003								
MW-45(A)	MW-45 (A)	1/16/2004								
MW-45(A)	MW-45 (A)	1/16/2004								
MW-45(A)	MW-45 (A)	4/14/2004								
MW-45(A)	MW-45 (A)	4/14/2004								
MW-45(A)	MW-45 (A)	7/21/2004								
MW-45(A)	MW-45 (A)	7/21/2004								
MW-46(A)	MW-46(A)	10/14/2003								
MW-46(A)	MW-46(A)	10/14/2003								
MW-46(A)	MW-46(A)	1/14/2004								
MW-46(A)	MW-46(A)	1/14/2004								
MW-46(A)	MW-46 (A)	4/12/2004								
MW-46(A)	MW-46 (A)	4/12/2004								
MW-46(A)	MW-46 (A)	7/21/2004								
MW-46(A)	MW-46 (A)	7/21/2004								
MW-47(A)	MW-47(A)	10/13/2003								
MW-47(A)	MW-47(A)	10/13/2003								
MW-47(A)	MW-47 (A)	1/14/2004								
MW-47(A)	MW-47 (A)	1/14/2004								
MW-47(A)	MW-47 (A)	4/12/2004								
MW-47(A)	MW-47 (A)	4/12/2004								
MW-47(A)	MW-47 (A)	7/21/2004								
MW-47(A)	MW-47 (A)	7/21/2004								
MW-48(A)	MW-48(A)	10/14/2003								
MW-48(A)	MW-48(A)	10/14/2003								
MW-48(A)	MW-48 (A)	1/14/2004								
MW-48(A)	MW-48 (A)	1/14/2004								
MW-48(A)	MW-48 (A)	4/12/2004								
MW-48(A)	MW-48 (A)	4/12/2004								
MW-48(A)	MW-48 (A)	7/21/2004								
MW-48(A)	MW-48 (A)	7/21/2004								
R-1(M)	R-1(M)	10/22/2003								
R-1(M)	R-1(M)	10/22/2003								
TW-100(C)	SB100(C)W	8/22/2002								
TW-100(C)	SB100(C)W	8/22/2002								
TW-103(C)	SB103(C)W	8/22/2002								
TW-104(C)	SB104(C)W	8/22/2002								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-200(C)	SB200(C)W	8/22/2002								
TW-200(C)	SB200(C)W	8/22/2002								
TW-201(C)	SB201(C)W	8/22/2002								
TW-201(C)	SB201(C)W	8/22/2002								
TW-202(C)	SB202(C)W	8/22/2002								
TW-202(C)	SB202(C)W	8/22/2002								
TW-203(C)	SB203(C)W	8/22/2002								
TW-203(C)	SB203(C)W	8/22/2002								
TW-204(C)	SB204(C)W	8/22/2002								
TW-204(C)	SB204(C)W	8/22/2002								
TW-204(C)	SB204(C)W2	8/22/2002								
TW-204(C)	SB204(C)W2	8/22/2002								
TW-304(D)	SB-304-D-9.0	8/19/2002								
TW-304(D)	SB-304-D-9.0 DUP	8/19/2002								
TW-305(D)	SB-305-D-9.0	8/19/2002								
TW-305(D)	SB-305-D-9.0	8/19/2002								
TW-306(D)	SB-306-D-9.0	8/19/2002								
TW-307(D)	SB-307-D-9.0	8/19/2002								
TW-309(D)	SB-309-D-9.0	8/19/2002								
TW-309(D)	SB-309-D-9.0	8/19/2002								
TW-311(D)	SB-311-D-10.0	8/19/2002								
TW-312(D)	SB-312-D-10.0	8/19/2002								
TW-312(D)	SB-312-D-10.0	8/19/2002								
TW-313(D)	TW-313-D-22.0	8/20/2002								
TW-314(D)	TW-314-D-22.0	8/20/2002								
TW-318(D)	TW-318-D-22.0	8/20/2002								
TW-318(D)	TW-318-D-22.0	8/20/2002								
TW-319(D)	SB-319-D-14.0	8/19/2002								
TW-400(F)	TW-400(F)	8/22/2002								
TW-600(N)	TW-600(N)	9/13/2002								
TW-600(N)	TW-600(N)	9/13/2002								
TW-601(N)	TW-601(N)	9/13/2002								
TW-601(N)	TW-601(N)	9/13/2002								
TW-602(N)	BT-602(N)	9/13/2002								
TW-602(N)	BT-602(N)	9/13/2002								
TW-602(N)	TW-602(N)	9/13/2002								
TW-602(N)	TW-602(N)	9/13/2002								
TW-603(N)	TW-603(N)	9/13/2002								
TW-603(N)	TW-603(N)	9/13/2002								
TW-608(N)	TW-608 (N)	9/13/2002								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002								
TW-612(N)	TW-612(N)	9/12/2002								
TW-612(N)	TW-612(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002								
TW-624(N)	TW-624(N)	9/12/2002	5 U	5 U	5 U	10 U	25 U	5 U		5 U
TW-624(N)	TW-624(N)	9/12/2002								
TW-625(N)	BT-625(N)	9/12/2002								
TW-625(N)	TW-625(N)	9/12/2002								
TW-700(P)	TW-700(P)	8/21/2002								
TW-700(P)	TW-700(P)	8/21/2002								
TW-701(P)	TW-701(P)	8/20/2002								
TW-702(P)	TW-702(P)	8/21/2002								
TW-702(P)	TW-702(P)	8/21/2002								
TW-703(P)	TW-703(P)	8/21/2002								
TW-704(P)	TW-704(P)	8/21/2002	25 U	25 U	25 U	25 U	62.5 U		25 U	
TW-705(P)	TW-705(P)	8/20/2002	25 U	25 U	25 U	25 U	62.5 U		25 U	
TW-706(P)	TW-706(P)	8/21/2002								
TW-707(P)	TW-707(P)	8/21/2002								
TW-708(P)	BT-708(P)	8/20/2002								
TW-708(P)	BT-708(P)	8/20/2002								
TW-708(P)	TW-708(P)	8/20/2002								
TW-708(P)	TW-708(P)	8/20/2002								
TW-709(P)	TW-709(P)	8/21/2002								
TW-710(P)	TW-710(P)	8/21/2002								
TW-710(P)	TW-710(P)	8/21/2002								
TW-711(P)	BT-711(P)	8/21/2002								
TW-711(P)	TW-711(P)	8/21/2002								
TW-712(P)	TW-712(P)	8/21/2002								
TW-712(P)	TW-712(P)	8/21/2002								
TW-714(P)	TW-714(P)	8/21/2002								
TW-714(P)	TW-714(P)	8/21/2002								
TW-716(P)	TW-716(P)	8/20/2002								
TW-716(P)	TW-716(P)	8/20/2002								
TW-717(P)	TW-717(P)	8/20/2002								
TW-717(P)	TW-717(P)	8/20/2002								
TW-718(P)	TW-718(P)	8/21/2002								
TW-718(P)	TW-718(P)	8/21/2002								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2,4,5-Trichlorophenol	2,4,6-Trichlorophenol	2,4-Dichlorophenol	2,4-Dimethylphenol	2,4-Dinitrophenol	2,4-Dinitrotoluene	2,6-Dichlorophenol	2,6-Dinitrotoluene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-719(P)	BT-719(P)	8/23/2002								
TW-719(P)	BT-719(P)	8/23/2002								
TW-719(P)	TW-719(P)	8/23/2002								
TW-719(P)	TW-719(P)	8/23/2002								
TW-720(P)	TW-720(P)	8/23/2002								
TW-720(P)	TW-720(P)	8/23/2002								
TW-900(S)	SB-900(TW)	8/26/2002								
TW-901(S)	SB-901(TW)	8/26/2002								
TW-901(S)	SB-901(TW)	8/26/2002								
TW-902(S)	SB-902(TW)	8/26/2002								
TW-903(S)	SB-903(TW)	8/26/2002								
TW-903(S)	SB-903(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002								
TW-906(S)	SB-906(TW)	8/27/2002								
TW-906(S)	SB-906(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002								
TW-909(S)	SB-909(TW)	8/27/2002								
TW-910(S)	SB-910(TW)	8/26/2002								
TW-911(S)	SB-911(TW)	8/27/2002								
TW-911(S)	SB-911(TW)	8/27/2002								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1(F)	10/22/2003								
MW-1(F)	MW-1(F)	10/22/2003								
MW-1(F)	MW-1 (F)	1/15/2004								
MW-1(F)	MW-1 (F)	1/15/2004								
MW-1(F)	MW-1(F)	4/15/2004								
MW-1(F)	MW-1(F)	4/15/2004								
MW-1(F)	MW-1 (F)	7/20/2004								
MW-1(F)	MW-1 (F)	7/20/2004								
MW-2(M)	MW-2(M)	6/19/2003								
MW-2(M)	MW-2(M)	6/19/2003								
MW-2(M)	MW-2 (M)	10/15/2003								
MW-2(M)	MW-2 (M)	10/15/2003								
MW-2(M)	MW-2 (M)	1/12/2004								
MW-2(M)	MW-2 (M)	1/12/2004								
MW-2(M)	MW-2(M)	4/14/2004								
MW-2(M)	MW-2(M)	4/14/2004								
MW-2(M)	MW-2 (M)	7/22/2004								
MW-2(M)	MW-2 (M)	7/22/2004								
MW-6(M)	MW-6(M)	6/19/2003								
MW-6(M)	MW-6(M)	6/19/2003								
MW-6(M)	MW-6(M)	10/22/2003								
MW-6(M)	MW-6(M)	10/22/2003								
MW-6(M)	MW-6 (M)	1/12/2004								
MW-6(M)	MW-6 (M)	1/12/2004								
MW-6(M)	MW-6 (M)	4/13/2004								
MW-6(M)	MW-6 (M)	4/13/2004								
MW-6(M)	MW-6 (M)	7/19/2004								
MW-6(M)	MW-6 (M)	7/19/2004								
MW-7(M)	BM-7(M)	6/19/2003								
MW-7(M)	BM-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	10/13/2003								
MW-7(M)	MW-7(M)	10/13/2003								
MW-7(M)	MW-7 (M)	1/12/2004								
MW-7(M)	MW-7 (M)	1/12/2004								
MW-7(M)	MW-7 (M)	4/12/2004								
MW-7(M)	MW-7 (M)	4/12/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	7/19/2004								
MW-7(M)	MW-7 (M)	7/19/2004								
MW-10(M)	MW-10(M)	6/19/2003								
MW-10(M)	MW-10(M)	6/19/2003								
MW-10(M)	MW-10 (M)	10/15/2003								
MW-10(M)	MW-10 (M)	10/15/2003								
MW-10(M)	MW-10 (M)	1/13/2004								
MW-10(M)	MW-10 (M)	1/13/2004								
MW-10(M)	MW-10 (M)	4/13/2004								
MW-10(M)	MW-10 (M)	4/13/2004								
MW-10(M)	MW-10 (M)	7/19/2004								
MW-10(M)	MW-10 (M)	7/19/2004								
MW-11(M)	MW-11(M)	6/19/2003								
MW-11(M)	MW-11(M)	6/19/2003								
MW-11(M)	MW-11 (M)	10/15/2003								
MW-11(M)	MW-11 (M)	10/15/2003								
MW-11(M)	MW-11 (M)	1/13/2004								
MW-11(M)	MW-11 (M)	1/13/2004								
MW-11(M)	MW-11 (M)	4/13/2004								
MW-11(M)	MW-11 (M)	4/13/2004								
MW-11(M)	MW-11 (M)	7/21/2004								
MW-11(M)	MW-11 (M)	7/21/2004								
MW-12(A)	MW-12(A)	10/22/2003								
MW-12(A)	MW-12(A)	10/22/2003								
MW-12(A)	MW-12 (A)	1/15/2004								
MW-12(A)	MW-12 (A)	1/15/2004								
MW-12(A)	MW-12(A)	4/16/2004								
MW-12(A)	MW-12(A)	4/16/2004								
MW-12(A)	MW-12 (A)	7/22/2004								
MW-12(A)	MW-12 (A)	7/22/2004								
MW-13(A)	MW-13(A)	10/22/2003								
MW-13(A)	MW-13(A)	10/22/2003								
MW-13(A)	MW-13 (A)	1/15/2004								
MW-13(A)	MW-13 (A)	1/15/2004								
MW-13(A)	MW-13(A)	4/16/2004								
MW-13(A)	MW-13(A)	4/16/2004								
MW-13(A)	MW-13 (A)	7/22/2004								
MW-13(A)	MW-13 (A)	7/22/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-14(A)	MW-14(A)	10/21/2003								
MW-14(A)	MW-14(A)	10/21/2003								
MW-14(A)	MW-14 (A)	1/15/2004								
MW-14(A)	MW-14 (A)	1/15/2004								
MW-14(A)	MW-14(A)	4/16/2004								
MW-14(A)	MW-14(A)	4/16/2004								
MW-14(A)	MW-14 (A)	7/23/2004								
MW-14(A)	MW-14 (A)	7/23/2004								
MW-15(A)	MW-15(A)	10/20/2003								
MW-15(A)	MW-15(A)	10/20/2003								
MW-16(A)	MW-16(A)	10/20/2003								
MW-16(A)	MW-16(A)	10/20/2003								
MW-16(A)	MW-16(A)	1/19/2004								
MW-16(A)	MW-16(A)	1/19/2004								
MW-16(A)	MW-16(A)	4/15/2004								
MW-16(A)	MW-16(A)	4/15/2004								
MW-16(A)	MW-16 (A)	7/22/2004								
MW-16(A)	MW-16 (A)	7/22/2004								
MW-17 (A)	BM-17 (A)	7/22/2004								
MW-17 (A)	BM-17 (A)	7/22/2004								
MW-17(A)	MW-17 (A)	10/17/2003								
MW-17(A)	MW-17 (A)	10/17/2003								
MW-17(A)	BM-17(A)	1/19/2004								
MW-17(A)	BM-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	4/15/2004								
MW-17(A)	MW-17(A)	4/15/2004								
MW-17(A)	MW-17 (A)	7/22/2004								
MW-17(A)	MW-17 (A)	7/22/2004								
MW-18(A)	MW-18(A)	10/21/2003								
MW-18(A)	MW-18(A)	10/21/2003								
MW-18(A)	MW-18(A)	1/19/2004								
MW-18(A)	MW-18(A)	1/19/2004								
MW-18(A)	MW-18(A)	4/15/2004								
MW-18(A)	MW-18(A)	4/15/2004								
MW-18(A)	MW-18 (A)	7/21/2004								
MW-18(A)	MW-18 (A)	7/21/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-19(A)	BM-19(A)	10/20/2003								
MW-19(A)	BM-19(A)	10/20/2003								
MW-19(A)	MW-19(A)	10/20/2003								
MW-19(A)	MW-19(A)	10/20/2003								
MW-19(A)	MW-19 (A)	1/13/2004								
MW-19(A)	MW-19 (A)	1/13/2004								
MW-19(A)	MW-19(A)	4/15/2004								
MW-19(A)	MW-19(A)	4/15/2004								
MW-19(A)	BM-19 (A)	7/20/2004								
MW-19(A)	BM-19 (A)	7/20/2004								
MW-19(A)	MW-19 (A)	7/20/2004								
MW-19(A)	MW-19 (A)	7/20/2004								
MW-20(A)	MW-20(A)	10/20/2003								
MW-20(A)	MW-20(A)	10/20/2003								
MW-20(A)	MW-20 (A)	1/13/2004								
MW-20(A)	MW-20 (A)	1/13/2004								
MW-20(A)	MW-20(A)	4/15/2004								
MW-20(A)	MW-20(A)	4/15/2004								
MW-20(A)	MW-20 (A)	7/20/2004								
MW-20(A)	MW-20 (A)	7/20/2004								
MW-21(A)	MW-21(A)	10/20/2003								
MW-21(A)	MW-21(A)	10/20/2003								
MW-21(A)	BM-21 (A)	1/13/2004								
MW-21(A)	BM-21 (A)	1/13/2004								
MW-21(A)	MW-21 (A)	1/13/2004								
MW-21(A)	MW-21 (A)	1/13/2004								
MW-21(A)	MW-21(A)	4/16/2004								
MW-21(A)	MW-21(A)	4/16/2004								
MW-21(A)	MW-21 (A)	7/20/2004								
MW-21(A)	MW-21 (A)	7/20/2004								
MW-22(A)	MW-22 (A)	10/16/2003								
MW-22(A)	MW-22 (A)	10/16/2003								
MW-22(A)	MW-22(A)	1/19/2004								
MW-22(A)	MW-22(A)	1/19/2004								
MW-22(A)	MW-22(A)	4/15/2004								
MW-22(A)	MW-22(A)	4/15/2004								
MW-22(A)	MW-22 (A)	7/20/2004								
MW-22(A)	MW-22 (A)	7/20/2004								
MW-23(A)	MW-23(A)	10/20/2003								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-23(A)	MW-23(A)	10/20/2003								
MW-23(A)	MW-23 (A)	1/15/2004								
MW-23(A)	MW-23 (A)	1/15/2004								
MW-23(A)	BM-23(A)	4/15/2004								
MW-23(A)	BM-23(A)	4/15/2004								
MW-23(A)	MW-23(A)	4/15/2004								
MW-23(A)	MW-23(A)	4/15/2004								
MW-23(A)	MW-23 (A)	7/20/2004								
MW-23(A)	MW-23 (A)	7/20/2004								
MW-24(A)	MW-24(A)	10/21/2003								
MW-24(A)	MW-24(A)	10/21/2003								
MW-24(A)	MW-24 (A)	1/15/2004								
MW-24(A)	MW-24 (A)	1/15/2004								
MW-24(A)	MW-24(A)	4/14/2004								
MW-24(A)	MW-24(A)	4/14/2004								
MW-24(A)	MW-24 (A)	7/22/2004								
MW-24(A)	MW-24 (A)	7/22/2004								
MW-26(A)	MW-26 (A)	10/17/2003								
MW-26(A)	MW-26 (A)	10/17/2003								
MW-26(A)	MW-26 (A)	1/15/2004								
MW-26(A)	MW-26 (A)	1/15/2004								
MW-26(A)	MW-26(A)	4/14/2004								
MW-26(A)	MW-26(A)	4/14/2004								
MW-26(A)	MW-26 (A)	7/22/2004								
MW-26(A)	MW-26 (A)	7/22/2004								
MW-27(A)	MW-27(A)	10/21/2003								
MW-27(A)	MW-27(A)	10/21/2003								
MW-27(A)	MW-27 (A)	1/14/2004								
MW-27(A)	MW-27 (A)	1/14/2004								
MW-27(A)	MW-27 (A)	4/14/2004								
MW-27(A)	MW-27 (A)	4/14/2004								
MW-27(A)	MW-27 (A)	7/22/2004								
MW-27(A)	MW-27 (A)	7/22/2004								
MW-28(A)	MW-28 (A)	10/17/2003								
MW-28(A)	MW-28 (A)	10/17/2003								
MW-28(A)	MW-28(A)	1/19/2004								
MW-28(A)	MW-28(A)	1/19/2004								
MW-28(A)	MW-28(A)	4/14/2004								
MW-28(A)	MW-28(A)	4/14/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28 (A)	7/23/2004								
MW-28(A)	MW-28 (A)	7/23/2004								
MW-29(A)	MW-29(A)	10/21/2003								
MW-29(A)	MW-29(A)	10/21/2003								
MW-29(A)	MW-29(A)	1/19/2004								
MW-29(A)	MW-29(A)	1/19/2004								
MW-29(A)	MW-29(A)	4/16/2004								
MW-29(A)	MW-29(A)	4/16/2004								
MW-29(A)	MW-29 (A)	7/22/2004								
MW-29(A)	MW-29 (A)	7/22/2004								
MW-30(A)	MW-30 (A)	10/16/2003								
MW-30(A)	MW-30 (A)	10/16/2003								
MW-30(A)	MW-30 (A)	1/16/2004								
MW-30(A)	MW-30 (A)	1/16/2004								
MW-30(A)	MW-30 (A)	4/13/2004								
MW-30(A)	MW-30 (A)	4/13/2004								
MW-30(A)	MW-30 (A)	7/20/2004								
MW-30(A)	MW-30 (A)	7/20/2004								
MW-31(A)	BM-31 (A)	10/16/2003								
MW-31(A)	BM-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	1/12/2004								
MW-31(A)	MW-31 (A)	1/12/2004								
MW-31(A)	BM-31 (A)	4/13/2004								
MW-31(A)	BM-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	7/20/2004								
MW-31(A)	MW-31 (A)	7/20/2004								
MW-32(A)	MW-32(A)	10/14/2003								
MW-32(A)	MW-32(A)	10/14/2003								
MW-32(A)	MW-32 (A)	1/12/2004								
MW-32(A)	MW-32 (A)	1/12/2004								
MW-32(A)	MW-32 (A)	4/13/2004								
MW-32(A)	MW-32 (A)	4/13/2004								
MW-32(A)	MW-32 (A)	7/19/2004								
MW-32(A)	MW-32 (A)	7/19/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-33(A)	MW-33(A)	10/14/2003								
MW-33(A)	MW-33(A)	10/14/2003								
MW-33(A)	MW-33 (A)	1/12/2004								
MW-33(A)	MW-33 (A)	1/12/2004								
MW-33(A)	MW-33 (A)	4/13/2004								
MW-33(A)	MW-33 (A)	4/13/2004								
MW-33(A)	MW-33 (A)	7/19/2004								
MW-33(A)	MW-33 (A)	7/19/2004								
MW-34(A)	MW-34(A)	10/14/2003								
MW-34(A)	MW-34(A)	10/14/2003								
MW-34(A)	MW-34 (A)	1/13/2004								
MW-34(A)	MW-34 (A)	1/13/2004								
MW-34(A)	MW-34 (A)	4/14/2004								
MW-34(A)	MW-34 (A)	4/14/2004								
MW-34(A)	MW-34 (A)	7/20/2004								
MW-34(A)	MW-34 (A)	7/20/2004								
MW-35(A)	MW-35 (A)	10/16/2003								
MW-35(A)	MW-35 (A)	10/16/2003								
MW-35(A)	MW-35 (A)	1/16/2004								
MW-35(A)	MW-35 (A)	1/16/2004								
MW-35(A)	MW-35 (A)	4/13/2004								
MW-35(A)	MW-35 (A)	4/13/2004								
MW-35(A)	MW-35 (A)	7/20/2004								
MW-35(A)	MW-35 (A)	7/20/2004								
MW-36(A)	MW-36(A)	10/21/2003								
MW-36(A)	MW-36(A)	10/21/2003								
MW-36(A)	MW-36 (A)	1/14/2004								
MW-36(A)	MW-36 (A)	1/14/2004								
MW-36(A)	MW-36 (A)	4/14/2004								
MW-36(A)	MW-36 (A)	4/14/2004								
MW-36(A)	MW-36 (A)	7/22/2004								
MW-36(A)	MW-36 (A)	7/22/2004								
MW-36(A)	MW-36 (A)	7/22/2004								
MW-37(A)	MW-37 (A)	10/17/2003								
MW-37(A)	MW-37 (A)	10/17/2003								
MW-38(A)	MW-38(A)	10/21/2003								
MW-38(A)	MW-38(A)	10/21/2003								
MW-38(A)	MW-38 (A)	1/14/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	1/14/2004								
MW-38(A)	MW-38 (A)	4/14/2004								
MW-38(A)	MW-38 (A)	4/14/2004								
MW-38(A)	MW-38 (A)	7/22/2004								
MW-38(A)	MW-38 (A)	7/22/2004								
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	1/16/2004								
MW-39(A)	MW-39 (A)	1/16/2004								
MW-39(A)	MW-39 (A)	4/14/2004								
MW-39(A)	MW-39 (A)	4/14/2004								
MW-39(A)	MW-39 (A)	7/21/2004								
MW-39(A)	MW-39 (A)	7/21/2004								
MW-39(A)	Trip Blank	7/21/2004								
MW-39(A)	Trip Blank	7/22/2004								
MW-40(A)	MW-40 (A)	10/17/2003								
MW-40(A)	MW-40 (A)	10/17/2003								
MW-40(A)	MW-40(A)	1/20/2004								
MW-40(A)	MW-40(A)	1/20/2004								
MW-40(A)	MW-40(A)	4/16/2004								
MW-40(A)	MW-40(A)	4/16/2004								
MW-41(A)	MW-41(A)	10/14/2003								
MW-41(A)	MW-41(A)	10/14/2003								
MW-42(A)	MW-42 (A)	10/15/2003								
MW-42(A)	MW-42 (A)	10/15/2003								
MW-43(A)	MW-43(A)	10/13/2003								
MW-43(A)	MW-43(A)	10/13/2003								
MW-43(A)	MW-43 (A)	1/12/2004								
MW-43(A)	MW-43 (A)	1/12/2004								
MW-43(A)	MW-43 (A)	4/13/2004								
MW-43(A)	MW-43 (A)	4/13/2004								
MW-43(A)	MW-43 (A)	7/21/2004								
MW-43(A)	MW-43 (A)	7/21/2004								
MW-44(A)	MW-44 (A)	10/17/2003								
MW-44(A)	MW-44 (A)	10/17/2003								
MW-45(A)	MW-45 (A)	10/16/2003								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-45(A)	MW-45 (A)	10/16/2003								
MW-45(A)	MW-45 (A)	1/16/2004								
MW-45(A)	MW-45 (A)	1/16/2004								
MW-45(A)	MW-45 (A)	4/14/2004								
MW-45(A)	MW-45 (A)	4/14/2004								
MW-45(A)	MW-45 (A)	7/21/2004								
MW-45(A)	MW-45 (A)	7/21/2004								
MW-46(A)	MW-46(A)	10/14/2003								
MW-46(A)	MW-46(A)	10/14/2003								
MW-46(A)	MW-46(A)	1/14/2004								
MW-46(A)	MW-46(A)	1/14/2004								
MW-46(A)	MW-46 (A)	4/12/2004								
MW-46(A)	MW-46 (A)	4/12/2004								
MW-46(A)	MW-46 (A)	7/21/2004								
MW-46(A)	MW-46 (A)	7/21/2004								
MW-47(A)	MW-47(A)	10/13/2003								
MW-47(A)	MW-47(A)	10/13/2003								
MW-47(A)	MW-47 (A)	1/14/2004								
MW-47(A)	MW-47 (A)	1/14/2004								
MW-47(A)	MW-47 (A)	4/12/2004								
MW-47(A)	MW-47 (A)	4/12/2004								
MW-47(A)	MW-47 (A)	7/21/2004								
MW-47(A)	MW-47 (A)	7/21/2004								
MW-48(A)	MW-48(A)	10/14/2003								
MW-48(A)	MW-48(A)	10/14/2003								
MW-48(A)	MW-48 (A)	1/14/2004								
MW-48(A)	MW-48 (A)	1/14/2004								
MW-48(A)	MW-48 (A)	4/12/2004								
MW-48(A)	MW-48 (A)	4/12/2004								
MW-48(A)	MW-48 (A)	7/21/2004								
MW-48(A)	MW-48 (A)	7/21/2004								
R-1(M)	R-1(M)	10/22/2003								
R-1(M)	R-1(M)	10/22/2003								
TW-100(C)	SB100(C)W	8/22/2002								
TW-100(C)	SB100(C)W	8/22/2002								
TW-103(C)	SB103(C)W	8/22/2002								
TW-104(C)	SB104(C)W	8/22/2002								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-200(C)	SB200(C)W	8/22/2002								
TW-200(C)	SB200(C)W	8/22/2002								
TW-201(C)	SB201(C)W	8/22/2002								
TW-201(C)	SB201(C)W	8/22/2002								
TW-202(C)	SB202(C)W	8/22/2002								
TW-202(C)	SB202(C)W	8/22/2002								
TW-203(C)	SB203(C)W	8/22/2002								
TW-203(C)	SB203(C)W	8/22/2002								
TW-204(C)	SB204(C)W	8/22/2002								
TW-204(C)	SB204(C)W	8/22/2002								
TW-204(C)	SB204(C)W2	8/22/2002								
TW-204(C)	SB204(C)W2	8/22/2002								
TW-304(D)	SB-304-D-9.0	8/19/2002								
TW-304(D)	SB-304-D-9.0 DUP	8/19/2002								
TW-305(D)	SB-305-D-9.0	8/19/2002								
TW-305(D)	SB-305-D-9.0	8/19/2002								
TW-306(D)	SB-306-D-9.0	8/19/2002								
TW-307(D)	SB-307-D-9.0	8/19/2002								
TW-309(D)	SB-309-D-9.0	8/19/2002								
TW-309(D)	SB-309-D-9.0	8/19/2002								
TW-311(D)	SB-311-D-10.0	8/19/2002								
TW-312(D)	SB-312-D-10.0	8/19/2002								
TW-312(D)	SB-312-D-10.0	8/19/2002								
TW-313(D)	TW-313-D-22.0	8/20/2002								
TW-314(D)	TW-314-D-22.0	8/20/2002								
TW-318(D)	TW-318-D-22.0	8/20/2002								
TW-318(D)	TW-318-D-22.0	8/20/2002								
TW-319(D)	SB-319-D-14.0	8/19/2002								
TW-400(F)	TW-400(F)	8/22/2002								
TW-600(N)	TW-600(N)	9/13/2002								
TW-600(N)	TW-600(N)	9/13/2002								
TW-601(N)	TW-601(N)	9/13/2002								
TW-601(N)	TW-601(N)	9/13/2002								
TW-602(N)	BT-602(N)	9/13/2002								
TW-602(N)	BT-602(N)	9/13/2002								
TW-602(N)	TW-602(N)	9/13/2002								
TW-602(N)	TW-602(N)	9/13/2002								
TW-603(N)	TW-603(N)	9/13/2002								
TW-603(N)	TW-603(N)	9/13/2002								
TW-608(N)	TW-608 (N)	9/13/2002								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002								
TW-612(N)	TW-612(N)	9/12/2002								
TW-612(N)	TW-612(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002								
TW-624(N)	TW-624(N)	9/12/2002	5 U	5 U	5 U	10 U	5 U	5 U	5 U	10 U
TW-624(N)	TW-624(N)	9/12/2002								
TW-625(N)	BT-625(N)	9/12/2002								
TW-625(N)	TW-625(N)	9/12/2002								
TW-700(P)	TW-700(P)	8/21/2002								
TW-700(P)	TW-700(P)	8/21/2002								
TW-701(P)	TW-701(P)	8/20/2002								
TW-702(P)	TW-702(P)	8/21/2002								
TW-702(P)	TW-702(P)	8/21/2002								
TW-703(P)	TW-703(P)	8/21/2002								
TW-704(P)	TW-704(P)	8/21/2002		25 U				25 U		
TW-705(P)	TW-705(P)	8/20/2002		25 U				25 U		
TW-706(P)	TW-706(P)	8/21/2002								
TW-707(P)	TW-707(P)	8/21/2002								
TW-708(P)	BT-708(P)	8/20/2002								
TW-708(P)	BT-708(P)	8/20/2002								
TW-708(P)	TW-708(P)	8/20/2002								
TW-708(P)	TW-708(P)	8/20/2002								
TW-709(P)	TW-709(P)	8/21/2002								
TW-710(P)	TW-710(P)	8/21/2002								
TW-710(P)	TW-710(P)	8/21/2002								
TW-711(P)	BT-711(P)	8/21/2002								
TW-711(P)	TW-711(P)	8/21/2002								
TW-712(P)	TW-712(P)	8/21/2002								
TW-712(P)	TW-712(P)	8/21/2002								
TW-714(P)	TW-714(P)	8/21/2002								
TW-714(P)	TW-714(P)	8/21/2002								
TW-716(P)	TW-716(P)	8/20/2002								
TW-716(P)	TW-716(P)	8/20/2002								
TW-717(P)	TW-717(P)	8/20/2002								
TW-717(P)	TW-717(P)	8/20/2002								
TW-718(P)	TW-718(P)	8/21/2002								
TW-718(P)	TW-718(P)	8/21/2002								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	2-Chloronaphthalene	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol (o-Cresol)	2-Nitroaniline	2-Nitrophenol	3,3-Dichlorobenzidine	3-Nitroaniline
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-719(P)	BT-719(P)	8/23/2002								
TW-719(P)	BT-719(P)	8/23/2002								
TW-719(P)	TW-719(P)	8/23/2002								
TW-719(P)	TW-719(P)	8/23/2002								
TW-720(P)	TW-720(P)	8/23/2002								
TW-720(P)	TW-720(P)	8/23/2002								
TW-900(S)	SB-900(TW)	8/26/2002								
TW-901(S)	SB-901(TW)	8/26/2002								
TW-901(S)	SB-901(TW)	8/26/2002								
TW-902(S)	SB-902(TW)	8/26/2002								
TW-903(S)	SB-903(TW)	8/26/2002								
TW-903(S)	SB-903(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002								
TW-906(S)	SB-906(TW)	8/27/2002								
TW-906(S)	SB-906(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002								
TW-909(S)	SB-909(TW)	8/27/2002								
TW-910(S)	SB-910(TW)	8/26/2002								
TW-911(S)	SB-911(TW)	8/27/2002								
TW-911(S)	SB-911(TW)	8/27/2002								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002					0.0811	0.05 U	0.05 U	0.01 U
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1(F)	10/22/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-1(F)	MW-1(F)	10/22/2003								
MW-1(F)	MW-1 (F)	1/15/2004					0.186	0.0998	0.05 U	0.01 U
MW-1(F)	MW-1 (F)	1/15/2004								
MW-1(F)	MW-1(F)	4/15/2004					0.112	0.0544	0.05 U	0.01 U
MW-1(F)	MW-1(F)	4/15/2004								
MW-1(F)	MW-1 (F)	7/20/2004					0.102	0.05 U	0.05 U	0.01 U
MW-1(F)	MW-1 (F)	7/20/2004								
MW-2(M)	MW-2(M)	6/19/2003					1.44	0.5 U	0.5 U	0.5 U
MW-2(M)	MW-2(M)	6/19/2003								
MW-2(M)	MW-2 (M)	10/15/2003					0.638	0.05 U	0.0568	0.01 U
MW-2(M)	MW-2 (M)	10/15/2003								
MW-2(M)	MW-2 (M)	1/12/2004					0.54	0.15 U	0.1 U	0.02 U
MW-2(M)	MW-2 (M)	1/12/2004								
MW-2(M)	MW-2(M)	4/14/2004					0.644	0.5 U	0.5 U	0.1 U
MW-2(M)	MW-2(M)	4/14/2004								
MW-2(M)	MW-2 (M)	7/22/2004					1.41	0.5 U	0.5 U	0.1 U
MW-2(M)	MW-2 (M)	7/22/2004								
MW-6(M)	MW-6(M)	6/19/2003					0.214	0.1 U	0.1 U	0.1 U
MW-6(M)	MW-6(M)	6/19/2003								
MW-6(M)	MW-6(M)	10/22/2003					0.146	0.05 U	0.05 U	0.01 U
MW-6(M)	MW-6(M)	10/22/2003								
MW-6(M)	MW-6 (M)	1/12/2004					0.167	0.05 U	0.05 U	0.011
MW-6(M)	MW-6 (M)	1/12/2004								
MW-6(M)	MW-6 (M)	4/13/2004					0.153	0.05 U	0.05 U	0.01 U
MW-6(M)	MW-6 (M)	4/13/2004								
MW-6(M)	MW-6 (M)	7/19/2004					0.228	0.05 U	0.05 U	0.01 U
MW-6(M)	MW-6 (M)	7/19/2004								
MW-7(M)	BM-7(M)	6/19/2003					0.1 U	0.1 U	0.1 U	0.1 U
MW-7(M)	BM-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	6/19/2003					0.1 U	0.1 U	0.1 U	0.1 U
MW-7(M)	MW-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	10/13/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-7(M)	MW-7(M)	10/13/2003								
MW-7(M)	MW-7 (M)	1/12/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-7(M)	MW-7 (M)	1/12/2004								
MW-7(M)	MW-7 (M)	4/12/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-7(M)	MW-7 (M)	4/12/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	7/19/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-7(M)	MW-7 (M)	7/19/2004								
MW-10(M)	MW-10(M)	6/19/2003					2 U	2 U	0.5 U	0.5 U
MW-10(M)	MW-10(M)	6/19/2003								
MW-10(M)	MW-10 (M)	10/15/2003					0.28	0.05 U	0.05 U	0.0475
MW-10(M)	MW-10 (M)	10/15/2003								
MW-10(M)	MW-10 (M)	1/13/2004					1 U	1 U	0.05 U	0.0114
MW-10(M)	MW-10 (M)	1/13/2004								
MW-10(M)	MW-10 (M)	4/13/2004					0.375	0.1 U	0.1 U	0.02 U
MW-10(M)	MW-10 (M)	4/13/2004								
MW-10(M)	MW-10 (M)	7/19/2004					0.365	0.05 U	0.05 U	0.0147
MW-10(M)	MW-10 (M)	7/19/2004								
MW-11(M)	MW-11(M)	6/19/2003					0.1 U	0.1 U	0.1 U	0.1 U
MW-11(M)	MW-11(M)	6/19/2003								
MW-11(M)	MW-11 (M)	10/15/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-11(M)	MW-11 (M)	10/15/2003								
MW-11(M)	MW-11 (M)	1/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-11(M)	MW-11 (M)	1/13/2004								
MW-11(M)	MW-11 (M)	4/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-11(M)	MW-11 (M)	4/13/2004								
MW-11(M)	MW-11 (M)	7/21/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-11(M)	MW-11 (M)	7/21/2004								
MW-12(A)	MW-12(A)	10/22/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-12(A)	MW-12(A)	10/22/2003								
MW-12(A)	MW-12 (A)	1/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-12(A)	MW-12 (A)	1/15/2004								
MW-12(A)	MW-12(A)	4/16/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-12(A)	MW-12(A)	4/16/2004								
MW-12(A)	MW-12 (A)	7/22/2004					0.05 U	0.05 U	0.05 U	0.0139
MW-12(A)	MW-12 (A)	7/22/2004								
MW-13(A)	MW-13(A)	10/22/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-13(A)	MW-13(A)	10/22/2003								
MW-13(A)	MW-13 (A)	1/15/2004					0.1 U	0.1 U	0.1 U	0.02 U
MW-13(A)	MW-13 (A)	1/15/2004								
MW-13(A)	MW-13(A)	4/16/2004					0.1 U	0.1 U	0.1 U	0.02 U
MW-13(A)	MW-13(A)	4/16/2004								
MW-13(A)	MW-13 (A)	7/22/2004					0.5 U	0.5 U	0.5 U	0.1 U
MW-13(A)	MW-13 (A)	7/22/2004								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-14(A)	MW-14(A)	10/21/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-14(A)	MW-14(A)	10/21/2003								
MW-14(A)	MW-14 (A)	1/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-14(A)	MW-14 (A)	1/15/2004								
MW-14(A)	MW-14(A)	4/16/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-14(A)	MW-14(A)	4/16/2004								
MW-14(A)	MW-14 (A)	7/23/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-14(A)	MW-14 (A)	7/23/2004								
MW-15(A)	MW-15(A)	10/20/2003					0.0916	0.05 U	0.05 U	0.01 U
MW-15(A)	MW-15(A)	10/20/2003								
MW-16(A)	MW-16(A)	10/20/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-16(A)	MW-16(A)	10/20/2003								
MW-16(A)	MW-16(A)	1/19/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-16(A)	MW-16(A)	1/19/2004								
MW-16(A)	MW-16(A)	4/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-16(A)	MW-16(A)	4/15/2004								
MW-16(A)	MW-16 (A)	7/22/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-16(A)	MW-16 (A)	7/22/2004								
MW-17 (A)	BM-17 (A)	7/22/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-17 (A)	BM-17 (A)	7/22/2004								
MW-17(A)	MW-17 (A)	10/17/2003					0.0612	0.05 U	0.05 U	0.01 U
MW-17(A)	MW-17 (A)	10/17/2003								
MW-17(A)	BM-17(A)	1/19/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-17(A)	BM-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	1/19/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-17(A)	MW-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	4/15/2004					0.0532	0.05 U	0.05 U	0.01 U
MW-17(A)	MW-17(A)	4/15/2004								
MW-17(A)	MW-17 (A)	7/22/2004					0.0864	0.05 U	0.05 U	0.01 U
MW-17(A)	MW-17 (A)	7/22/2004								
MW-18(A)	MW-18(A)	10/21/2003					0.517	0.05 U	0.05 U	0.01 U
MW-18(A)	MW-18(A)	10/21/2003								
MW-18(A)	MW-18(A)	1/19/2004					0.632	0.1 U	0.05 U	0.01 U
MW-18(A)	MW-18(A)	1/19/2004								
MW-18(A)	MW-18(A)	4/15/2004					0.312	0.05 U	0.05 U	0.01 U
MW-18(A)	MW-18(A)	4/15/2004								
MW-18(A)	MW-18 (A)	7/21/2004					0.428	0.05 U	0.05 U	0.01 U
MW-18(A)	MW-18 (A)	7/21/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-19(A)	BM-19(A)	10/20/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-19(A)	BM-19(A)	10/20/2003								
MW-19(A)	MW-19(A)	10/20/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-19(A)	MW-19(A)	10/20/2003								
MW-19(A)	MW-19 (A)	1/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-19(A)	MW-19 (A)	1/13/2004								
MW-19(A)	MW-19(A)	4/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-19(A)	MW-19(A)	4/15/2004								
MW-19(A)	BM-19 (A)	7/20/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-19(A)	BM-19 (A)	7/20/2004								
MW-19(A)	MW-19 (A)	7/20/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-19(A)	MW-19 (A)	7/20/2004								
MW-20(A)	MW-20(A)	10/20/2003					0.318	0.05 U	0.05 U	0.01 U
MW-20(A)	MW-20(A)	10/20/2003								
MW-20(A)	MW-20 (A)	1/13/2004					0.345	0.075 U	0.05 U	0.01 U
MW-20(A)	MW-20 (A)	1/13/2004								
MW-20(A)	MW-20(A)	4/15/2004					0.184	0.1 U	0.1 U	0.02 U
MW-20(A)	MW-20(A)	4/15/2004								
MW-20(A)	MW-20 (A)	7/20/2004					0.306	0.1 U	0.1 U	0.02 U
MW-20(A)	MW-20 (A)	7/20/2004								
MW-21(A)	MW-21(A)	10/20/2003					0.224	0.05 U	0.05 U	0.01 U
MW-21(A)	MW-21(A)	10/20/2003								
MW-21(A)	BM-21 (A)	1/13/2004					0.253	0.05 U	0.05 U	0.01 U
MW-21(A)	BM-21 (A)	1/13/2004								
MW-21(A)	MW-21 (A)	1/13/2004					0.185	0.05 U	0.05 U	0.01 U
MW-21(A)	MW-21 (A)	1/13/2004								
MW-21(A)	MW-21(A)	4/16/2004					0.5 U	0.5 U	0.5 U	0.02 U
MW-21(A)	MW-21(A)	4/16/2004								
MW-21(A)	MW-21 (A)	7/20/2004					0.318	0.05 U	0.05 U	0.01 U
MW-21(A)	MW-21 (A)	7/20/2004								
MW-22(A)	MW-22 (A)	10/16/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-22(A)	MW-22 (A)	10/16/2003								
MW-22(A)	MW-22(A)	1/19/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-22(A)	MW-22(A)	1/19/2004								
MW-22(A)	MW-22(A)	4/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-22(A)	MW-22(A)	4/15/2004								
MW-22(A)	MW-22 (A)	7/20/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-22(A)	MW-22 (A)	7/20/2004								
MW-23(A)	MW-23(A)	10/20/2003					0.05 U	0.05 U	0.05 U	0.01 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-23(A)	MW-23(A)	10/20/2003								
MW-23(A)	MW-23 (A)	1/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-23(A)	MW-23 (A)	1/15/2004								
MW-23(A)	BM-23(A)	4/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-23(A)	BM-23(A)	4/15/2004								
MW-23(A)	MW-23(A)	4/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-23(A)	MW-23(A)	4/15/2004								
MW-23(A)	MW-23 (A)	7/20/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-23(A)	MW-23 (A)	7/20/2004								
MW-24(A)	MW-24(A)	10/21/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-24(A)	MW-24(A)	10/21/2003								
MW-24(A)	MW-24 (A)	1/15/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-24(A)	MW-24 (A)	1/15/2004								
MW-24(A)	MW-24(A)	4/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-24(A)	MW-24(A)	4/14/2004								
MW-24(A)	MW-24 (A)	7/22/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-24(A)	MW-24 (A)	7/22/2004								
MW-26(A)	MW-26 (A)	10/17/2003					5 U	5 U	5 U	0.01 U
MW-26(A)	MW-26 (A)	10/17/2003								
MW-26(A)	MW-26 (A)	1/15/2004					0.0687	0.05 U	0.05 U	0.01 U
MW-26(A)	MW-26 (A)	1/15/2004								
MW-26(A)	MW-26(A)	4/14/2004					0.0548	0.05 U	0.05 U	0.01 U
MW-26(A)	MW-26(A)	4/14/2004								
MW-26(A)	MW-26 (A)	7/22/2004					2.5 U	2.5 U	2.5 U	0.5 U
MW-26(A)	MW-26 (A)	7/22/2004								
MW-27(A)	MW-27(A)	10/21/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-27(A)	MW-27(A)	10/21/2003								
MW-27(A)	MW-27 (A)	1/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-27(A)	MW-27 (A)	1/14/2004								
MW-27(A)	MW-27 (A)	4/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-27(A)	MW-27 (A)	4/14/2004								
MW-27(A)	MW-27 (A)	7/22/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-27(A)	MW-27 (A)	7/22/2004								
MW-28(A)	MW-28 (A)	10/17/2003					5 U	5 U	5 U	0.01 U
MW-28(A)	MW-28 (A)	10/17/2003								
MW-28(A)	MW-28(A)	1/19/2004					0.0548	0.05 U	0.05 U	0.01 U
MW-28(A)	MW-28(A)	1/19/2004								
MW-28(A)	MW-28(A)	4/14/2004					0.0555	0.05 U	0.05 U	0.01 U
MW-28(A)	MW-28(A)	4/14/2004								

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Remedial Investigation/Feasibility Study
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Astoria, Oregon

Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28 (A)	7/23/2004					0.5 U	0.5 U	0.5 U	0.1 U
MW-28(A)	MW-28 (A)	7/23/2004								
MW-29(A)	MW-29(A)	10/21/2003					0.0959	0.05 U	0.05 U	0.01 U
MW-29(A)	MW-29(A)	10/21/2003								
MW-29(A)	MW-29(A)	1/19/2004					0.126	0.05 U	0.05 U	0.01 U
MW-29(A)	MW-29(A)	1/19/2004								
MW-29(A)	MW-29(A)	4/16/2004					0.1 U	0.1 U	0.1 U	0.02 U
MW-29(A)	MW-29(A)	4/16/2004								
MW-29(A)	MW-29 (A)	7/22/2004					2.5 U	2.5 U	2.5 U	0.5 U
MW-29(A)	MW-29 (A)	7/22/2004								
MW-30(A)	MW-30 (A)	10/16/2003					0.0531	0.05 U	0.05 U	0.01 U
MW-30(A)	MW-30 (A)	10/16/2003								
MW-30(A)	MW-30 (A)	1/16/2004					0.0751	0.05 U	0.05 U	0.01 U
MW-30(A)	MW-30 (A)	1/16/2004								
MW-30(A)	MW-30 (A)	4/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-30(A)	MW-30 (A)	4/13/2004								
MW-30(A)	MW-30 (A)	7/20/2004					0.0744	0.05 U	0.05 U	0.01 U
MW-30(A)	MW-30 (A)	7/20/2004								
MW-31(A)	BM-31 (A)	10/16/2003					0.0594	0.05 U	0.05 U	0.01 U
MW-31(A)	BM-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	10/16/2003					0.0661	0.05 U	0.05 U	0.01 U
MW-31(A)	MW-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	1/12/2004					0.096	0.05 U	0.05 U	0.01 U
MW-31(A)	MW-31 (A)	1/12/2004								
MW-31(A)	BM-31 (A)	4/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-31(A)	BM-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	4/13/2004					0.1 U	0.1 U	0.1 U	0.02 U
MW-31(A)	MW-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	7/20/2004					0.0652	0.05 U	0.05 U	0.01 U
MW-31(A)	MW-31 (A)	7/20/2004								
MW-32(A)	MW-32(A)	10/14/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-32(A)	MW-32(A)	10/14/2003								
MW-32(A)	MW-32 (A)	1/12/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-32(A)	MW-32 (A)	1/12/2004								
MW-32(A)	MW-32 (A)	4/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-32(A)	MW-32 (A)	4/13/2004								
MW-32(A)	MW-32 (A)	7/19/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-32(A)	MW-32 (A)	7/19/2004								

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Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-33(A)	MW-33(A)	10/14/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-33(A)	MW-33(A)	10/14/2003								
MW-33(A)	MW-33 (A)	1/12/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-33(A)	MW-33 (A)	1/12/2004								
MW-33(A)	MW-33 (A)	4/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-33(A)	MW-33 (A)	4/13/2004								
MW-33(A)	MW-33 (A)	7/19/2004					0.0528	0.05 U	0.05 U	0.01 U
MW-33(A)	MW-33 (A)	7/19/2004								
MW-34(A)	MW-34(A)	10/14/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-34(A)	MW-34(A)	10/14/2003								
MW-34(A)	MW-34 (A)	1/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-34(A)	MW-34 (A)	1/13/2004								
MW-34(A)	MW-34 (A)	4/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-34(A)	MW-34 (A)	4/14/2004								
MW-34(A)	MW-34 (A)	7/20/2004					0.05 U	0.05 U	0.05 U	0.0262
MW-34(A)	MW-34 (A)	7/20/2004								
MW-35(A)	MW-35 (A)	10/16/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-35(A)	MW-35 (A)	10/16/2003								
MW-35(A)	MW-35 (A)	1/16/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-35(A)	MW-35 (A)	1/16/2004								
MW-35(A)	MW-35 (A)	4/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-35(A)	MW-35 (A)	4/13/2004								
MW-35(A)	MW-35 (A)	7/20/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-35(A)	MW-35 (A)	7/20/2004								
MW-36(A)	MW-36(A)	10/21/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-36(A)	MW-36(A)	10/21/2003								
MW-36(A)	MW-36 (A)	1/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-36(A)	MW-36 (A)	1/14/2004								
MW-36(A)	MW-36 (A)	4/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-36(A)	MW-36 (A)	4/14/2004								
MW-36(A)	MW-36 (A)	7/22/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-36(A)	MW-36 (A)	7/22/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-36(A)	MW-36 (A)	7/22/2004								
MW-37(A)	MW-37 (A)	10/17/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-37(A)	MW-37 (A)	10/17/2003								
MW-38(A)	MW-38(A)	10/21/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-38(A)	MW-38(A)	10/21/2003								
MW-38(A)	MW-38 (A)	1/14/2004					0.05 U	0.05 U	0.05 U	0.01 U

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Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	1/14/2004								
MW-38(A)	MW-38 (A)	4/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-38(A)	MW-38 (A)	4/14/2004								
MW-38(A)	MW-38 (A)	7/22/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-38(A)	MW-38 (A)	7/22/2004								
MW-39(A)	MW-39 (A)	10/16/2003					1.04	0.05 U	0.137	0.01 U
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	1/16/2004					0.598	0.125 U	0.0715	0.01 U
MW-39(A)	MW-39 (A)	1/16/2004								
MW-39(A)	MW-39 (A)	4/14/2004					0.462	0.1 U	0.0707	0.01 U
MW-39(A)	MW-39 (A)	4/14/2004								
MW-39(A)	MW-39 (A)	7/21/2004					1.4	0.5 U	0.156	0.01 U
MW-39(A)	MW-39 (A)	7/21/2004								
MW-39(A)	Trip Blank	7/21/2004								
MW-39(A)	Trip Blank	7/22/2004								
MW-40(A)	MW-40 (A)	10/17/2003					0.727	0.05 U	0.05 U	0.01 U
MW-40(A)	MW-40 (A)	10/17/2003								
MW-40(A)	MW-40(A)	1/20/2004					0.553	0.15 U	0.1 U	0.02 U
MW-40(A)	MW-40(A)	1/20/2004								
MW-40(A)	MW-40(A)	4/16/2004					0.822	0.3 U	0.2 U	0.04 U
MW-40(A)	MW-40(A)	4/16/2004								
MW-41(A)	MW-41(A)	10/14/2003					2.45	1.25 U	1.25 U	0.01 U
MW-41(A)	MW-41(A)	10/14/2003								
MW-42(A)	MW-42 (A)	10/15/2003					1.1	0.05 U	0.0893	0.01 U
MW-42(A)	MW-42 (A)	10/15/2003								
MW-43(A)	MW-43(A)	10/13/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-43(A)	MW-43(A)	10/13/2003								
MW-43(A)	MW-43 (A)	1/12/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-43(A)	MW-43 (A)	1/12/2004								
MW-43(A)	MW-43 (A)	4/13/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-43(A)	MW-43 (A)	4/13/2004								
MW-43(A)	MW-43 (A)	7/21/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-43(A)	MW-43 (A)	7/21/2004								
MW-44(A)	MW-44 (A)	10/17/2003					0.194	0.05 U	0.08 U	0.01 U
MW-44(A)	MW-44 (A)	10/17/2003								
MW-45(A)	MW-45 (A)	10/16/2003					0.05 U	0.05 U	0.05 U	0.01 U

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Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-45(A)	MW-45 (A)	10/16/2003								
MW-45(A)	MW-45 (A)	1/16/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-45(A)	MW-45 (A)	1/16/2004								
MW-45(A)	MW-45 (A)	4/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-45(A)	MW-45 (A)	4/14/2004								
MW-45(A)	MW-45 (A)	7/21/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-45(A)	MW-45 (A)	7/21/2004								
MW-46(A)	MW-46(A)	10/14/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-46(A)	MW-46(A)	10/14/2003								
MW-46(A)	MW-46(A)	1/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-46(A)	MW-46(A)	1/14/2004								
MW-46(A)	MW-46 (A)	4/12/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-46(A)	MW-46 (A)	4/12/2004								
MW-46(A)	MW-46 (A)	7/21/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-46(A)	MW-46 (A)	7/21/2004								
MW-47(A)	MW-47(A)	10/13/2003					0.05 U	0.05 U	0.05 U	0.01 U
MW-47(A)	MW-47(A)	10/13/2003								
MW-47(A)	MW-47 (A)	1/14/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-47(A)	MW-47 (A)	1/14/2004								
MW-47(A)	MW-47 (A)	4/12/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-47(A)	MW-47 (A)	4/12/2004								
MW-47(A)	MW-47 (A)	7/21/2004					0.05 U	0.05 U	0.05 U	0.01 U
MW-47(A)	MW-47 (A)	7/21/2004								
MW-48(A)	MW-48(A)	10/14/2003					0.362	0.05 U	0.05 U	0.0127
MW-48(A)	MW-48(A)	10/14/2003								
MW-48(A)	MW-48 (A)	1/14/2004					0.176	0.05 U	0.05 U	0.01 U
MW-48(A)	MW-48 (A)	1/14/2004								
MW-48(A)	MW-48 (A)	4/12/2004					0.117	0.05 U	0.05 U	0.0109
MW-48(A)	MW-48 (A)	4/12/2004								
MW-48(A)	MW-48 (A)	7/21/2004					0.201	0.05 U	0.05 U	0.0243
MW-48(A)	MW-48 (A)	7/21/2004								
R-1(M)	R-1(M)	10/22/2003					0.0873	0.05 U	0.05 U	0.01 U
R-1(M)	R-1(M)	10/22/2003								
TW-100(C)	SB100(C)W	8/22/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-100(C)	SB100(C)W	8/22/2002								
TW-103(C)	SB103(C)W	8/22/2002								
TW-104(C)	SB104(C)W	8/22/2002								

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Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-200(C)	SB200(C)W	8/22/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-200(C)	SB200(C)W	8/22/2002								
TW-201(C)	SB201(C)W	8/22/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-201(C)	SB201(C)W	8/22/2002								
TW-202(C)	SB202(C)W	8/22/2002					0.157	0.05 U	0.05 U	0.01 U
TW-202(C)	SB202(C)W	8/22/2002								
TW-203(C)	SB203(C)W	8/22/2002					1.09	0.05 U	0.05 U	0.01 U
TW-203(C)	SB203(C)W	8/22/2002								
TW-204(C)	SB204(C)W	8/22/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-204(C)	SB204(C)W	8/22/2002								
TW-204(C)	SB204(C)W2	8/22/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-204(C)	SB204(C)W2	8/22/2002								
TW-304(D)	SB-304-D-9.0	8/19/2002					5 U	5 U	0.05 U	0.01 U
TW-304(D)	SB-304-D-9.0 DUP	8/19/2002					5 U	5 U	0.05 U	0.01 U
TW-305(D)	SB-305-D-9.0	8/19/2002					7.37	2.5 U	50 U	0.5 U
TW-305(D)	SB-305-D-9.0	8/19/2002								
TW-306(D)	SB-306-D-9.0	8/19/2002					0.622	0.05 U	0.14	0.05 U
TW-307(D)	SB-307-D-9.0	8/19/2002					5 U	5 U	5 U	0.01 U
TW-309(D)	SB-309-D-9.0	8/19/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-309(D)	SB-309-D-9.0	8/19/2002								
TW-311(D)	SB-311-D-10.0	8/19/2002					0.0567	0.05 U	0.05 U	0.01 U
TW-312(D)	SB-312-D-10.0	8/19/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-312(D)	SB-312-D-10.0	8/19/2002								
TW-313(D)	TW-313-D-22.0	8/20/2002					0.05 U	0.05 U	0.05 U	0.05 U
TW-314(D)	TW-314-D-22.0	8/20/2002					0.05 U	0.05 U	0.05 U	0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-318(D)	TW-318-D-22.0	8/20/2002								
TW-319(D)	SB-319-D-14.0	8/19/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-400(F)	TW-400(F)	8/22/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-600(N)	TW-600(N)	9/13/2002					0.195	0.05 U	0.05 U	0.25 U
TW-600(N)	TW-600(N)	9/13/2002								
TW-601(N)	TW-601(N)	9/13/2002					0.191	0.05 U	0.05 U	2.5 U
TW-601(N)	TW-601(N)	9/13/2002								
TW-602(N)	BT-602(N)	9/13/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-602(N)	BT-602(N)	9/13/2002								
TW-602(N)	TW-602(N)	9/13/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-602(N)	TW-602(N)	9/13/2002								
TW-603(N)	TW-603(N)	9/13/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-603(N)	TW-603(N)	9/13/2002								
TW-608(N)	TW-608 (N)	9/13/2002					0.05 U	0.05 U	0.05 U	0.01 U

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Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002								
TW-612(N)	TW-612(N)	9/12/2002					1.15	0.05 U	0.05 U	0.05 U
TW-612(N)	TW-612(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-616(N)	TW-616(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002					0.142	0.05 U	0.05 U	0.01 U
TW-619(N)	TW-619(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002					0.37	0.05 U	0.05 U	0.01 U
TW-623(N)	TW-623(N)	9/12/2002								
TW-624(N)	TW-624(N)	9/12/2002	5 U	20 U	10 U	25 U	5 U	5 U	5 U	5 U
TW-624(N)	TW-624(N)	9/12/2002								
TW-625(N)	BT-625(N)	9/12/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-625(N)	TW-625(N)	9/12/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-700(P)	TW-700(P)	8/21/2002					1 U J	1 U J	1 U J	1 U J
TW-700(P)	TW-700(P)	8/21/2002								
TW-701(P)	TW-701(P)	8/20/2002								
TW-702(P)	TW-702(P)	8/21/2002					0.05 U J	0.05 U J	0.05 U J	0.01 U J
TW-702(P)	TW-702(P)	8/21/2002								
TW-703(P)	TW-703(P)	8/21/2002								
TW-704(P)	TW-704(P)	8/21/2002	25 U			25 U				
TW-705(P)	TW-705(P)	8/20/2002	25 U			25 U	0.0571 U J	0.0571 U J	0.0571 U J	0.0114 U J
TW-706(P)	TW-706(P)	8/21/2002								
TW-707(P)	TW-707(P)	8/21/2002								
TW-708(P)	BT-708(P)	8/20/2002					2 U J	2 U J	2 U J	2 U J
TW-708(P)	BT-708(P)	8/20/2002								
TW-708(P)	TW-708(P)	8/20/2002					2.5 U J	2.5 U J	2.5 U J	2.5 U J
TW-708(P)	TW-708(P)	8/20/2002								
TW-709(P)	TW-709(P)	8/21/2002								
TW-710(P)	TW-710(P)	8/21/2002					0.05 U J	0.05 U J	0.05 U J	0.01 U J
TW-710(P)	TW-710(P)	8/21/2002								
TW-711(P)	BT-711(P)	8/21/2002								
TW-711(P)	TW-711(P)	8/21/2002								
TW-712(P)	TW-712(P)	8/21/2002					0.05 U J	0.05 U J	0.05 U J	0.01 U J
TW-712(P)	TW-712(P)	8/21/2002								
TW-714(P)	TW-714(P)	8/21/2002					1.55 J	2.5 U J	2.5 U J	2.5 U J
TW-714(P)	TW-714(P)	8/21/2002								
TW-716(P)	TW-716(P)	8/20/2002					0.05 U J	0.05 U J	0.05 U J	0.01 U J
TW-716(P)	TW-716(P)	8/20/2002								
TW-717(P)	TW-717(P)	8/20/2002					0.2 U J	0.2 U J	0.2 U J	0.2 U J
TW-717(P)	TW-717(P)	8/20/2002								
TW-718(P)	TW-718(P)	8/21/2002					0.05 U J	0.05 U J	0.05 U J	0.01 U J
TW-718(P)	TW-718(P)	8/21/2002								

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Locator ID	Sample ID	Sample Date	4-Chloro-3-methylphenol	4-Chloroaniline	4-Nitroaniline	4-Nitrophenol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-719(P)	BT-719(P)	8/23/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-719(P)	BT-719(P)	8/23/2002								
TW-719(P)	TW-719(P)	8/23/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-719(P)	TW-719(P)	8/23/2002								
TW-720(P)	TW-720(P)	8/23/2002					5 U	5 U	0.0894	0.05 U
TW-720(P)	TW-720(P)	8/23/2002								
TW-900(S)	SB-900(TW)	8/26/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-901(S)	SB-901(TW)	8/26/2002					1 U	1 U	1 U	1 U
TW-901(S)	SB-901(TW)	8/26/2002								
TW-902(S)	SB-902(TW)	8/26/2002					1.03	0.5 U	0.5 U	0.5 U
TW-903(S)	SB-903(TW)	8/26/2002					1.53	0.2 U	0.103 J	0.2 U
TW-903(S)	SB-903(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002					0.87	0.1 U	0.0657 J	0.1 U
TW-904(S)	SB-904(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002								
TW-906(S)	SB-906(TW)	8/27/2002					0.153	0.05 U	0.05 U	0.01 U
TW-906(S)	SB-906(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-908(S)	SB-908(TW)	8/27/2002								
TW-909(S)	SB-909(TW)	8/27/2002					0.05 U	0.05 U	0.05 U	0.01 U
TW-910(S)	SB-910(TW)	8/26/2002					0.591	0.1 U	0.05 U	0.01 U
TW-911(S)	SB-911(TW)	8/27/2002					0.363 J	0.5 U	0.1 U	0.1 U
TW-911(S)	SB-911(TW)	8/27/2002								

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	0.01 U	0.01 U	0.05 U	0.01 U				
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1(F)	10/22/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-1(F)	MW-1(F)	10/22/2003								
MW-1(F)	MW-1 (F)	1/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-1(F)	MW-1 (F)	1/15/2004								
MW-1(F)	MW-1(F)	4/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-1(F)	MW-1(F)	4/15/2004								
MW-1(F)	MW-1 (F)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-1(F)	MW-1 (F)	7/20/2004								
MW-2(M)	MW-2(M)	6/19/2003	0.5 U	0.5 U	0.5 U	0.5 U				
MW-2(M)	MW-2(M)	6/19/2003								
MW-2(M)	MW-2 (M)	10/15/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-2(M)	MW-2 (M)	10/15/2003								
MW-2(M)	MW-2 (M)	1/12/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-2(M)	MW-2 (M)	1/12/2004								
MW-2(M)	MW-2(M)	4/14/2004	0.1 U	0.1 U	0.5 U	0.1 U				
MW-2(M)	MW-2(M)	4/14/2004								
MW-2(M)	MW-2 (M)	7/22/2004	0.1 U	0.1 U	0.5 U	0.1 U				
MW-2(M)	MW-2 (M)	7/22/2004								
MW-6(M)	MW-6(M)	6/19/2003	0.1 U	0.1 U	0.1 U	0.1 U				
MW-6(M)	MW-6(M)	6/19/2003								
MW-6(M)	MW-6(M)	10/22/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-6(M)	MW-6(M)	10/22/2003								
MW-6(M)	MW-6 (M)	1/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-6(M)	MW-6 (M)	1/12/2004								
MW-6(M)	MW-6 (M)	4/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-6(M)	MW-6 (M)	4/13/2004								
MW-6(M)	MW-6 (M)	7/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-6(M)	MW-6 (M)	7/19/2004								
MW-7(M)	BM-7(M)	6/19/2003	0.1 U	0.1 U	0.1 U	0.1 U				
MW-7(M)	BM-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	6/19/2003	0.1 U	0.1 U	0.1 U	0.1 U				
MW-7(M)	MW-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	10/13/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-7(M)	MW-7(M)	10/13/2003								
MW-7(M)	MW-7 (M)	1/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-7(M)	MW-7 (M)	1/12/2004								
MW-7(M)	MW-7 (M)	4/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-7(M)	MW-7 (M)	4/12/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	7/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-7(M)	MW-7 (M)	7/19/2004								
MW-10(M)	MW-10(M)	6/19/2003	0.5 U	0.5 U	0.5 U	0.5 U				
MW-10(M)	MW-10(M)	6/19/2003								
MW-10(M)	MW-10 (M)	10/15/2003	0.069	0.0625	0.05 U	0.0548				
MW-10(M)	MW-10 (M)	10/15/2003								
MW-10(M)	MW-10 (M)	1/13/2004	0.0105	0.0124	0.05 U	0.01 U				
MW-10(M)	MW-10 (M)	1/13/2004								
MW-10(M)	MW-10 (M)	4/13/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-10(M)	MW-10 (M)	4/13/2004								
MW-10(M)	MW-10 (M)	7/19/2004	0.0111	0.0118	0.05 U	0.0106				
MW-10(M)	MW-10 (M)	7/19/2004								
MW-11(M)	MW-11(M)	6/19/2003	0.1 U	0.1 U	0.1 U	0.1 U				
MW-11(M)	MW-11(M)	6/19/2003								
MW-11(M)	MW-11 (M)	10/15/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-11(M)	MW-11 (M)	10/15/2003								
MW-11(M)	MW-11 (M)	1/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-11(M)	MW-11 (M)	1/13/2004								
MW-11(M)	MW-11 (M)	4/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-11(M)	MW-11 (M)	4/13/2004								
MW-11(M)	MW-11 (M)	7/21/2004	0.01 U	0.01 U	0.05 U	0.015 U				
MW-11(M)	MW-11 (M)	7/21/2004								
MW-12(A)	MW-12(A)	10/22/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-12(A)	MW-12(A)	10/22/2003								
MW-12(A)	MW-12 (A)	1/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-12(A)	MW-12 (A)	1/15/2004								
MW-12(A)	MW-12(A)	4/16/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-12(A)	MW-12(A)	4/16/2004								
MW-12(A)	MW-12 (A)	7/22/2004	0.01 U	0.0102	0.05 U	0.015				
MW-12(A)	MW-12 (A)	7/22/2004								
MW-13(A)	MW-13(A)	10/22/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-13(A)	MW-13(A)	10/22/2003								
MW-13(A)	MW-13 (A)	1/15/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-13(A)	MW-13 (A)	1/15/2004								
MW-13(A)	MW-13(A)	4/16/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-13(A)	MW-13(A)	4/16/2004								
MW-13(A)	MW-13 (A)	7/22/2004	0.1 U	0.1 U	0.5 U	0.1 U				
MW-13(A)	MW-13 (A)	7/22/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-14(A)	MW-14(A)	10/21/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-14(A)	MW-14(A)	10/21/2003								
MW-14(A)	MW-14 (A)	1/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-14(A)	MW-14 (A)	1/15/2004								
MW-14(A)	MW-14(A)	4/16/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-14(A)	MW-14(A)	4/16/2004								
MW-14(A)	MW-14 (A)	7/23/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-14(A)	MW-14 (A)	7/23/2004								
MW-15(A)	MW-15(A)	10/20/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-15(A)	MW-15(A)	10/20/2003								
MW-16(A)	MW-16(A)	10/20/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-16(A)	MW-16(A)	10/20/2003								
MW-16(A)	MW-16(A)	1/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-16(A)	MW-16(A)	1/19/2004								
MW-16(A)	MW-16(A)	4/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-16(A)	MW-16(A)	4/15/2004								
MW-16(A)	MW-16 (A)	7/22/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-16(A)	MW-16 (A)	7/22/2004								
MW-17 (A)	BM-17 (A)	7/22/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-17 (A)	BM-17 (A)	7/22/2004								
MW-17(A)	MW-17 (A)	10/17/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-17(A)	MW-17 (A)	10/17/2003								
MW-17(A)	BM-17(A)	1/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-17(A)	BM-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	1/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-17(A)	MW-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	4/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-17(A)	MW-17(A)	4/15/2004								
MW-17(A)	MW-17 (A)	7/22/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-17(A)	MW-17 (A)	7/22/2004								
MW-18(A)	MW-18(A)	10/21/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-18(A)	MW-18(A)	10/21/2003								
MW-18(A)	MW-18(A)	1/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-18(A)	MW-18(A)	1/19/2004								
MW-18(A)	MW-18(A)	4/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-18(A)	MW-18(A)	4/15/2004								
MW-18(A)	MW-18 (A)	7/21/2004	0.01 U	0.01 U	0.05 U	0.02 U				
MW-18(A)	MW-18 (A)	7/21/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-19(A)	BM-19(A)	10/20/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-19(A)	BM-19(A)	10/20/2003								
MW-19(A)	MW-19(A)	10/20/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-19(A)	MW-19(A)	10/20/2003								
MW-19(A)	MW-19 (A)	1/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-19(A)	MW-19 (A)	1/13/2004								
MW-19(A)	MW-19(A)	4/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-19(A)	MW-19(A)	4/15/2004								
MW-19(A)	BM-19 (A)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-19(A)	BM-19 (A)	7/20/2004								
MW-19(A)	MW-19 (A)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-19(A)	MW-19 (A)	7/20/2004								
MW-20(A)	MW-20(A)	10/20/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-20(A)	MW-20(A)	10/20/2003								
MW-20(A)	MW-20 (A)	1/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-20(A)	MW-20 (A)	1/13/2004								
MW-20(A)	MW-20(A)	4/15/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-20(A)	MW-20(A)	4/15/2004								
MW-20(A)	MW-20 (A)	7/20/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-20(A)	MW-20 (A)	7/20/2004								
MW-21(A)	MW-21(A)	10/20/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-21(A)	MW-21(A)	10/20/2003								
MW-21(A)	BM-21 (A)	1/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-21(A)	BM-21 (A)	1/13/2004								
MW-21(A)	MW-21 (A)	1/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-21(A)	MW-21 (A)	1/13/2004								
MW-21(A)	MW-21(A)	4/16/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-21(A)	MW-21(A)	4/16/2004								
MW-21(A)	MW-21 (A)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-21(A)	MW-21 (A)	7/20/2004								
MW-22(A)	MW-22 (A)	10/16/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-22(A)	MW-22 (A)	10/16/2003								
MW-22(A)	MW-22(A)	1/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-22(A)	MW-22(A)	1/19/2004								
MW-22(A)	MW-22(A)	4/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-22(A)	MW-22(A)	4/15/2004								
MW-22(A)	MW-22 (A)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-22(A)	MW-22 (A)	7/20/2004								
MW-23(A)	MW-23(A)	10/20/2003	0.01 U	0.01 U	0.05 U	0.01 U				

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-23(A)	MW-23(A)	10/20/2003								
MW-23(A)	MW-23 (A)	1/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-23(A)	MW-23 (A)	1/15/2004								
MW-23(A)	BM-23(A)	4/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-23(A)	BM-23(A)	4/15/2004								
MW-23(A)	MW-23(A)	4/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-23(A)	MW-23(A)	4/15/2004								
MW-23(A)	MW-23 (A)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-23(A)	MW-23 (A)	7/20/2004								
MW-24(A)	MW-24(A)	10/21/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-24(A)	MW-24(A)	10/21/2003								
MW-24(A)	MW-24 (A)	1/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-24(A)	MW-24 (A)	1/15/2004								
MW-24(A)	MW-24(A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-24(A)	MW-24(A)	4/14/2004								
MW-24(A)	MW-24 (A)	7/22/2004	0.01 U	0.01 U	0.05 U	0.015 U				
MW-24(A)	MW-24 (A)	7/22/2004								
MW-26(A)	MW-26 (A)	10/17/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-26(A)	MW-26 (A)	10/17/2003								
MW-26(A)	MW-26 (A)	1/15/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-26(A)	MW-26 (A)	1/15/2004								
MW-26(A)	MW-26(A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-26(A)	MW-26(A)	4/14/2004								
MW-26(A)	MW-26 (A)	7/22/2004	0.5 U	0.5 U	2.5 U	0.5 U				
MW-26(A)	MW-26 (A)	7/22/2004								
MW-27(A)	MW-27(A)	10/21/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-27(A)	MW-27(A)	10/21/2003								
MW-27(A)	MW-27 (A)	1/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-27(A)	MW-27 (A)	1/14/2004								
MW-27(A)	MW-27 (A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-27(A)	MW-27 (A)	4/14/2004								
MW-27(A)	MW-27 (A)	7/22/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-27(A)	MW-27 (A)	7/22/2004								
MW-28(A)	MW-28 (A)	10/17/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-28(A)	MW-28 (A)	10/17/2003								
MW-28(A)	MW-28(A)	1/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-28(A)	MW-28(A)	1/19/2004								
MW-28(A)	MW-28(A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-28(A)	MW-28(A)	4/14/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28 (A)	7/23/2004	0.1 U	0.1 U	0.5 U	0.1 U				
MW-28(A)	MW-28 (A)	7/23/2004								
MW-29(A)	MW-29(A)	10/21/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-29(A)	MW-29(A)	10/21/2003								
MW-29(A)	MW-29(A)	1/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-29(A)	MW-29(A)	1/19/2004								
MW-29(A)	MW-29(A)	4/16/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-29(A)	MW-29(A)	4/16/2004								
MW-29(A)	MW-29 (A)	7/22/2004	0.5 U	0.5 U	2.5 U	0.5 U				
MW-29(A)	MW-29 (A)	7/22/2004								
MW-30(A)	MW-30 (A)	10/16/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-30(A)	MW-30 (A)	10/16/2003								
MW-30(A)	MW-30 (A)	1/16/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-30(A)	MW-30 (A)	1/16/2004								
MW-30(A)	MW-30 (A)	4/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-30(A)	MW-30 (A)	4/13/2004								
MW-30(A)	MW-30 (A)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-30(A)	MW-30 (A)	7/20/2004								
MW-31(A)	BM-31 (A)	10/16/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-31(A)	BM-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	10/16/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-31(A)	MW-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	1/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-31(A)	MW-31 (A)	1/12/2004								
MW-31(A)	BM-31 (A)	4/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-31(A)	BM-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	4/13/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-31(A)	MW-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-31(A)	MW-31 (A)	7/20/2004								
MW-32(A)	MW-32(A)	10/14/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-32(A)	MW-32(A)	10/14/2003								
MW-32(A)	MW-32 (A)	1/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-32(A)	MW-32 (A)	1/12/2004								
MW-32(A)	MW-32 (A)	4/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-32(A)	MW-32 (A)	4/13/2004								
MW-32(A)	MW-32 (A)	7/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-32(A)	MW-32 (A)	7/19/2004								

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Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-33(A)	MW-33(A)	10/14/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-33(A)	MW-33(A)	10/14/2003								
MW-33(A)	MW-33 (A)	1/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-33(A)	MW-33 (A)	1/12/2004								
MW-33(A)	MW-33 (A)	4/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-33(A)	MW-33 (A)	4/13/2004								
MW-33(A)	MW-33 (A)	7/19/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-33(A)	MW-33 (A)	7/19/2004								
MW-34(A)	MW-34(A)	10/14/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-34(A)	MW-34(A)	10/14/2003								
MW-34(A)	MW-34 (A)	1/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-34(A)	MW-34 (A)	1/13/2004								
MW-34(A)	MW-34 (A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-34(A)	MW-34 (A)	4/14/2004								
MW-34(A)	MW-34 (A)	7/20/2004	0.01 U	0.0267	0.05 U	0.0261				
MW-34(A)	MW-34 (A)	7/20/2004								
MW-35(A)	MW-35 (A)	10/16/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-35(A)	MW-35 (A)	10/16/2003								
MW-35(A)	MW-35 (A)	1/16/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-35(A)	MW-35 (A)	1/16/2004								
MW-35(A)	MW-35 (A)	4/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-35(A)	MW-35 (A)	4/13/2004								
MW-35(A)	MW-35 (A)	7/20/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-35(A)	MW-35 (A)	7/20/2004								
MW-36(A)	MW-36(A)	10/21/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-36(A)	MW-36(A)	10/21/2003								
MW-36(A)	MW-36 (A)	1/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-36(A)	MW-36 (A)	1/14/2004								
MW-36(A)	MW-36 (A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-36(A)	MW-36 (A)	4/14/2004								
MW-36(A)	MW-36 (A)	7/22/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-36(A)	MW-36 (A)	7/22/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-36(A)	MW-36 (A)	7/22/2004								
MW-37(A)	MW-37 (A)	10/17/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-37(A)	MW-37 (A)	10/17/2003								
MW-38(A)	MW-38(A)	10/21/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-38(A)	MW-38(A)	10/21/2003								
MW-38(A)	MW-38 (A)	1/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				

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Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	1/14/2004								
MW-38(A)	MW-38 (A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-38(A)	MW-38 (A)	4/14/2004								
MW-38(A)	MW-38 (A)	7/22/2004	0.01 U	0.02 U	0.05 U	0.02 U				
MW-38(A)	MW-38 (A)	7/22/2004								
MW-39(A)	MW-39 (A)	10/16/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	1/16/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-39(A)	MW-39 (A)	1/16/2004								
MW-39(A)	MW-39 (A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-39(A)	MW-39 (A)	4/14/2004								
MW-39(A)	MW-39 (A)	7/21/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-39(A)	MW-39 (A)	7/21/2004								
MW-39(A)	Trip Blank	7/21/2004								
MW-39(A)	Trip Blank	7/22/2004								
MW-40(A)	MW-40 (A)	10/17/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-40(A)	MW-40 (A)	10/17/2003								
MW-40(A)	MW-40(A)	1/20/2004	0.02 U	0.02 U	0.1 U	0.02 U				
MW-40(A)	MW-40(A)	1/20/2004								
MW-40(A)	MW-40(A)	4/16/2004	0.04 U	0.04 U	0.2 U	0.04 U				
MW-40(A)	MW-40(A)	4/16/2004								
MW-41(A)	MW-41(A)	10/14/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-41(A)	MW-41(A)	10/14/2003								
MW-42(A)	MW-42 (A)	10/15/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-42(A)	MW-42 (A)	10/15/2003								
MW-43(A)	MW-43(A)	10/13/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-43(A)	MW-43(A)	10/13/2003								
MW-43(A)	MW-43 (A)	1/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-43(A)	MW-43 (A)	1/12/2004								
MW-43(A)	MW-43 (A)	4/13/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-43(A)	MW-43 (A)	4/13/2004								
MW-43(A)	MW-43 (A)	7/21/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-43(A)	MW-43 (A)	7/21/2004								
MW-44(A)	MW-44 (A)	10/17/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-44(A)	MW-44 (A)	10/17/2003								
MW-45(A)	MW-45 (A)	10/16/2003	0.01 U	0.01 U	0.05 U	0.01 U				

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Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-45(A)	MW-45 (A)	10/16/2003								
MW-45(A)	MW-45 (A)	1/16/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-45(A)	MW-45 (A)	1/16/2004								
MW-45(A)	MW-45 (A)	4/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-45(A)	MW-45 (A)	4/14/2004								
MW-45(A)	MW-45 (A)	7/21/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-45(A)	MW-45 (A)	7/21/2004								
MW-46(A)	MW-46(A)	10/14/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-46(A)	MW-46(A)	10/14/2003								
MW-46(A)	MW-46(A)	1/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-46(A)	MW-46(A)	1/14/2004								
MW-46(A)	MW-46 (A)	4/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-46(A)	MW-46 (A)	4/12/2004								
MW-46(A)	MW-46 (A)	7/21/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-46(A)	MW-46 (A)	7/21/2004								
MW-47(A)	MW-47(A)	10/13/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-47(A)	MW-47(A)	10/13/2003								
MW-47(A)	MW-47 (A)	1/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-47(A)	MW-47 (A)	1/14/2004								
MW-47(A)	MW-47 (A)	4/12/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-47(A)	MW-47 (A)	4/12/2004								
MW-47(A)	MW-47 (A)	7/21/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-47(A)	MW-47 (A)	7/21/2004								
MW-48(A)	MW-48(A)	10/14/2003	0.01 U	0.01 U	0.05 U	0.01 U				
MW-48(A)	MW-48(A)	10/14/2003								
MW-48(A)	MW-48 (A)	1/14/2004	0.01 U	0.01 U	0.05 U	0.01 U				
MW-48(A)	MW-48 (A)	1/14/2004								
MW-48(A)	MW-48 (A)	4/12/2004	0.0104	0.0105	0.05 U	0.01 U				
MW-48(A)	MW-48 (A)	4/12/2004								
MW-48(A)	MW-48 (A)	7/21/2004	0.0177	0.0202	0.05 U	0.0176				
MW-48(A)	MW-48 (A)	7/21/2004								
R-1(M)	R-1(M)	10/22/2003	0.01 U	0.01 U	0.05 U	0.01 U				
R-1(M)	R-1(M)	10/22/2003								
TW-100(C)	SB100(C)W	8/22/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-100(C)	SB100(C)W	8/22/2002								
TW-103(C)	SB103(C)W	8/22/2002								
TW-104(C)	SB104(C)W	8/22/2002								

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Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-200(C)	SB200(C)W	8/22/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-200(C)	SB200(C)W	8/22/2002								
TW-201(C)	SB201(C)W	8/22/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-201(C)	SB201(C)W	8/22/2002								
TW-202(C)	SB202(C)W	8/22/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-202(C)	SB202(C)W	8/22/2002								
TW-203(C)	SB203(C)W	8/22/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-203(C)	SB203(C)W	8/22/2002								
TW-204(C)	SB204(C)W	8/22/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-204(C)	SB204(C)W	8/22/2002								
TW-204(C)	SB204(C)W2	8/22/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-204(C)	SB204(C)W2	8/22/2002								
TW-304(D)	SB-304-D-9.0	8/19/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-304(D)	SB-304-D-9.0 DUP	8/19/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-305(D)	SB-305-D-9.0	8/19/2002	0.5 U	0.5 U	2.5 U	0.5 U				
TW-305(D)	SB-305-D-9.0	8/19/2002								
TW-306(D)	SB-306-D-9.0	8/19/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-307(D)	SB-307-D-9.0	8/19/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-309(D)	SB-309-D-9.0	8/19/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-309(D)	SB-309-D-9.0	8/19/2002								
TW-311(D)	SB-311-D-10.0	8/19/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-312(D)	SB-312-D-10.0	8/19/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-312(D)	SB-312-D-10.0	8/19/2002								
TW-313(D)	TW-313-D-22.0	8/20/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-314(D)	TW-314-D-22.0	8/20/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-318(D)	TW-318-D-22.0	8/20/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-318(D)	TW-318-D-22.0	8/20/2002								
TW-319(D)	SB-319-D-14.0	8/19/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-400(F)	TW-400(F)	8/22/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-600(N)	TW-600(N)	9/13/2002	0.25 U	0.25 U	0.25 U	0.25 U				
TW-600(N)	TW-600(N)	9/13/2002								
TW-601(N)	TW-601(N)	9/13/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-601(N)	TW-601(N)	9/13/2002								
TW-602(N)	BT-602(N)	9/13/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-602(N)	BT-602(N)	9/13/2002								
TW-602(N)	TW-602(N)	9/13/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-602(N)	TW-602(N)	9/13/2002								
TW-603(N)	TW-603(N)	9/13/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-603(N)	TW-603(N)	9/13/2002								
TW-608(N)	TW-608 (N)	9/13/2002	0.01 U	0.01 U	0.05 U	0.01 U				

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Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002								
TW-612(N)	TW-612(N)	9/12/2002	0.05 U	0.05 U	0.05 U	0.05 U				
TW-612(N)	TW-612(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-616(N)	TW-616(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-619(N)	TW-619(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-623(N)	TW-623(N)	9/12/2002								
TW-624(N)	TW-624(N)	9/12/2002	5 U	5 U	5 U	5 U	50 U	10 U	10 U	10 U
TW-624(N)	TW-624(N)	9/12/2002								
TW-625(N)	BT-625(N)	9/12/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-625(N)	TW-625(N)	9/12/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-700(P)	TW-700(P)	8/21/2002	1 U J	1 U J	1 U J	1 U J				
TW-700(P)	TW-700(P)	8/21/2002								
TW-701(P)	TW-701(P)	8/20/2002								
TW-702(P)	TW-702(P)	8/21/2002	0.01 U J	0.01 U J	0.05 U J	0.01 U J				
TW-702(P)	TW-702(P)	8/21/2002								
TW-703(P)	TW-703(P)	8/21/2002								
TW-704(P)	TW-704(P)	8/21/2002								
TW-705(P)	TW-705(P)	8/20/2002	0.0114 U J	0.0114 U J	0.0571 U J	0.0114 U J				
TW-706(P)	TW-706(P)	8/21/2002								
TW-707(P)	TW-707(P)	8/21/2002								
TW-708(P)	BT-708(P)	8/20/2002	0.01 U J	0.01 U J	0.05 U J	0.01 U J				
TW-708(P)	BT-708(P)	8/20/2002								
TW-708(P)	TW-708(P)	8/20/2002	2.5 U J	2.5 U J	2.5 U J	2.5 U J				
TW-708(P)	TW-708(P)	8/20/2002								
TW-709(P)	TW-709(P)	8/21/2002								
TW-710(P)	TW-710(P)	8/21/2002	0.01 U J	0.01 U J	0.05 U J	0.01 U J				
TW-710(P)	TW-710(P)	8/21/2002								
TW-711(P)	BT-711(P)	8/21/2002								
TW-711(P)	TW-711(P)	8/21/2002								
TW-712(P)	TW-712(P)	8/21/2002	0.01 U J	U J	0.05 U J	0.01 U J				
TW-712(P)	TW-712(P)	8/21/2002								
TW-714(P)	TW-714(P)	8/21/2002	2.5 U J	2.5 U J	2.5 U J	2.5 U J				
TW-714(P)	TW-714(P)	8/21/2002								
TW-716(P)	TW-716(P)	8/20/2002	0.01 U J	0.01 U J	0.05 U J	0.01 U J				
TW-716(P)	TW-716(P)	8/20/2002								
TW-717(P)	TW-717(P)	8/20/2002	0.01 U J	0.01 U J	0.05 U J	0.01 U J				
TW-717(P)	TW-717(P)	8/20/2002								
TW-718(P)	TW-718(P)	8/21/2002	0.01 U J	0.01 U J	0.05 U J	0.01 U J				
TW-718(P)	TW-718(P)	8/21/2002								

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Locator ID	Sample ID	Sample Date	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzoic acid	Benzyl alcohol	bis(2-Chloroisopropyl)ether	bis-(2-ethylhexyl)phthalate
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-719(P)	BT-719(P)	8/23/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-719(P)	BT-719(P)	8/23/2002								
TW-719(P)	TW-719(P)	8/23/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-719(P)	TW-719(P)	8/23/2002								
TW-720(P)	TW-720(P)	8/23/2002	0.05 U	0.05 U	0.05 U	0.05 U				
TW-720(P)	TW-720(P)	8/23/2002								
TW-900(S)	SB-900(TW)	8/26/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-901(S)	SB-901(TW)	8/26/2002	1 U	1 U	1 U	1 U				
TW-901(S)	SB-901(TW)	8/26/2002								
TW-902(S)	SB-902(TW)	8/26/2002	0.5 U	0.5 U	0.5 U	0.5 U				
TW-903(S)	SB-903(TW)	8/26/2002	0.2 U	0.2 U	0.2 U	0.2 U				
TW-903(S)	SB-903(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002	0.1 U	0.1 U	0.1 U	0.1 U				
TW-904(S)	SB-904(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002								
TW-906(S)	SB-906(TW)	8/27/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-906(S)	SB-906(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-908(S)	SB-908(TW)	8/27/2002								
TW-909(S)	SB-909(TW)	8/27/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-910(S)	SB-910(TW)	8/26/2002	0.01 U	0.01 U	0.05 U	0.01 U				
TW-911(S)	SB-911(TW)	8/27/2002	0.1 U	0.1 U	0.1 U	0.1 U				
TW-911(S)	SB-911(TW)	8/27/2002								

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	0.01 U	0.01 U						0.05 U
MW-1(F)	MW-1-082302	8/23/2002								
MW-1(F)	MW-1(F)	10/22/2003	0.01 U	0.01 U						0.05 U
MW-1(F)	MW-1(F)	10/22/2003								
MW-1(F)	MW-1 (F)	1/15/2004	0.01 U	0.01 U						0.05 U
MW-1(F)	MW-1 (F)	1/15/2004								
MW-1(F)	MW-1(F)	4/15/2004	0.01 U	0.01 U						0.05 U
MW-1(F)	MW-1(F)	4/15/2004								
MW-1(F)	MW-1 (F)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-1(F)	MW-1 (F)	7/20/2004								
MW-2(M)	MW-2(M)	6/19/2003	0.5 U	1 U						0.5 U
MW-2(M)	MW-2(M)	6/19/2003								
MW-2(M)	MW-2 (M)	10/15/2003	0.01 U	0.01 U						0.0693
MW-2(M)	MW-2 (M)	10/15/2003								
MW-2(M)	MW-2 (M)	1/12/2004	0.02 U	0.02 U						0.1 U
MW-2(M)	MW-2 (M)	1/12/2004								
MW-2(M)	MW-2(M)	4/14/2004	0.1 U	0.1 U						0.5 U
MW-2(M)	MW-2(M)	4/14/2004								
MW-2(M)	MW-2 (M)	7/22/2004	0.1 U	0.1 U						0.5 U
MW-2(M)	MW-2 (M)	7/22/2004								
MW-6(M)	MW-6(M)	6/19/2003	0.1 U	0.2 U						0.1 U
MW-6(M)	MW-6(M)	6/19/2003								
MW-6(M)	MW-6(M)	10/22/2003	0.01 U	0.01 U						0.05 U
MW-6(M)	MW-6(M)	10/22/2003								
MW-6(M)	MW-6 (M)	1/12/2004	0.013	0.01 U						0.05 U
MW-6(M)	MW-6 (M)	1/12/2004								
MW-6(M)	MW-6 (M)	4/13/2004	0.01 U	0.01 U						0.05 U
MW-6(M)	MW-6 (M)	4/13/2004								
MW-6(M)	MW-6 (M)	7/19/2004	0.01 U	0.01 U						0.05 U
MW-6(M)	MW-6 (M)	7/19/2004								
MW-7(M)	BM-7(M)	6/19/2003	0.1 U	0.2 U						0.1 U
MW-7(M)	BM-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	6/19/2003	0.1 U	0.2 U						0.1 U
MW-7(M)	MW-7(M)	6/19/2003								
MW-7(M)	MW-7(M)	10/13/2003	0.01 U	0.01 U						0.05 U
MW-7(M)	MW-7(M)	10/13/2003								
MW-7(M)	MW-7 (M)	1/12/2004	0.0104	0.01 U						0.05 U
MW-7(M)	MW-7 (M)	1/12/2004								
MW-7(M)	MW-7 (M)	4/12/2004	0.01 U	0.01 U						0.05 U
MW-7(M)	MW-7 (M)	4/12/2004								

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Remedial Investigation/Feasibility Study
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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	7/19/2004	0.01 U	0.01 U						0.05 U
MW-7(M)	MW-7 (M)	7/19/2004								
MW-10(M)	MW-10(M)	6/19/2003	0.5 U	1 U						0.5 U
MW-10(M)	MW-10(M)	6/19/2003								
MW-10(M)	MW-10 (M)	10/15/2003	0.0554	0.0172						0.0655
MW-10(M)	MW-10 (M)	10/15/2003								
MW-10(M)	MW-10 (M)	1/13/2004	0.0144	0.01 U						0.05 U
MW-10(M)	MW-10 (M)	1/13/2004								
MW-10(M)	MW-10 (M)	4/13/2004	0.02 U	0.02 U						0.1 U
MW-10(M)	MW-10 (M)	4/13/2004								
MW-10(M)	MW-10 (M)	7/19/2004	0.0133	0.01 U						0.05 U
MW-10(M)	MW-10 (M)	7/19/2004								
MW-11(M)	MW-11(M)	6/19/2003	0.1 U	0.2 U						0.1 U
MW-11(M)	MW-11(M)	6/19/2003								
MW-11(M)	MW-11 (M)	10/15/2003	0.01 U	0.01 U						0.05 U
MW-11(M)	MW-11 (M)	10/15/2003								
MW-11(M)	MW-11 (M)	1/13/2004	0.01 U	0.01 U						0.05 U
MW-11(M)	MW-11 (M)	1/13/2004								
MW-11(M)	MW-11 (M)	4/13/2004	0.01 U	0.01 U						0.05 U
MW-11(M)	MW-11 (M)	4/13/2004								
MW-11(M)	MW-11 (M)	7/21/2004	0.01 U	0.01 U						0.05 U
MW-11(M)	MW-11 (M)	7/21/2004								
MW-12(A)	MW-12(A)	10/22/2003	0.01 U	0.01 U						0.05 U
MW-12(A)	MW-12(A)	10/22/2003								
MW-12(A)	MW-12 (A)	1/15/2004	0.01 U	0.01 U						0.05 U
MW-12(A)	MW-12 (A)	1/15/2004								
MW-12(A)	MW-12(A)	4/16/2004	0.01 U	0.01 U						0.05 U
MW-12(A)	MW-12(A)	4/16/2004								
MW-12(A)	MW-12 (A)	7/22/2004	0.0144	0.01 U						0.05 U
MW-12(A)	MW-12 (A)	7/22/2004								
MW-13(A)	MW-13(A)	10/22/2003	0.01 U	0.01 U						0.05 U
MW-13(A)	MW-13(A)	10/22/2003								
MW-13(A)	MW-13 (A)	1/15/2004	0.02 U	0.02 U						0.1 U
MW-13(A)	MW-13 (A)	1/15/2004								
MW-13(A)	MW-13(A)	4/16/2004	0.02 U	0.02 U						0.1 U
MW-13(A)	MW-13(A)	4/16/2004								
MW-13(A)	MW-13 (A)	7/22/2004	0.1 U	0.1 U						0.5 U
MW-13(A)	MW-13 (A)	7/22/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-14(A)	MW-14(A)	10/21/2003	0.01 U	0.01 U						0.05 U
MW-14(A)	MW-14(A)	10/21/2003								
MW-14(A)	MW-14 (A)	1/15/2004	0.01 U	0.01 U						0.05 U
MW-14(A)	MW-14 (A)	1/15/2004								
MW-14(A)	MW-14(A)	4/16/2004	0.01 U	0.01 U						0.05 U
MW-14(A)	MW-14(A)	4/16/2004								
MW-14(A)	MW-14 (A)	7/23/2004	0.01 U	0.01 U						0.05 U
MW-14(A)	MW-14 (A)	7/23/2004								
MW-15(A)	MW-15(A)	10/20/2003	0.01 U	0.01 U						0.05 U
MW-15(A)	MW-15(A)	10/20/2003								
MW-16(A)	MW-16(A)	10/20/2003	0.01 U	0.01 U						0.05 U
MW-16(A)	MW-16(A)	10/20/2003								
MW-16(A)	MW-16(A)	1/19/2004	0.01 U	0.01 U						0.05 U
MW-16(A)	MW-16(A)	1/19/2004								
MW-16(A)	MW-16(A)	4/15/2004	0.01 U	0.01 U						0.05 U
MW-16(A)	MW-16(A)	4/15/2004								
MW-16(A)	MW-16 (A)	7/22/2004	0.01 U	0.01 U						0.05 U
MW-16(A)	MW-16 (A)	7/22/2004								
MW-17 (A)	BM-17 (A)	7/22/2004	0.01 U	0.01 U						0.05 U
MW-17 (A)	BM-17 (A)	7/22/2004								
MW-17(A)	MW-17 (A)	10/17/2003	0.01 U	0.01 U						0.05 U
MW-17(A)	MW-17 (A)	10/17/2003								
MW-17(A)	BM-17(A)	1/19/2004	0.01 U	0.01 U						0.05 U
MW-17(A)	BM-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	1/19/2004	0.01 U	0.01 U						0.05 U
MW-17(A)	MW-17(A)	1/19/2004								
MW-17(A)	MW-17(A)	4/15/2004	0.01 U	0.01 U						0.05 U
MW-17(A)	MW-17(A)	4/15/2004								
MW-17(A)	MW-17 (A)	7/22/2004	0.01 U	0.01 U						0.05 U
MW-17(A)	MW-17 (A)	7/22/2004								
MW-18(A)	MW-18(A)	10/21/2003	0.01 U	0.01 U						0.05 U
MW-18(A)	MW-18(A)	10/21/2003								
MW-18(A)	MW-18(A)	1/19/2004	0.01 U	0.01 U						0.05 U
MW-18(A)	MW-18(A)	1/19/2004								
MW-18(A)	MW-18(A)	4/15/2004	0.01 U	0.01 U						0.05 U
MW-18(A)	MW-18(A)	4/15/2004								
MW-18(A)	MW-18 (A)	7/21/2004	0.01 U	0.01 U						0.05 U
MW-18(A)	MW-18 (A)	7/21/2004								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-19(A)	BM-19(A)	10/20/2003	0.01 U	0.01 U						0.05 U
MW-19(A)	BM-19(A)	10/20/2003								
MW-19(A)	MW-19(A)	10/20/2003	0.01 U	0.01 U						0.05 U
MW-19(A)	MW-19(A)	10/20/2003								
MW-19(A)	MW-19 (A)	1/13/2004	0.01 U	0.01 U						0.05 U
MW-19(A)	MW-19 (A)	1/13/2004								
MW-19(A)	MW-19(A)	4/15/2004	0.01 U	0.01 U						0.05 U
MW-19(A)	MW-19(A)	4/15/2004								
MW-19(A)	BM-19 (A)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-19(A)	BM-19 (A)	7/20/2004								
MW-19(A)	MW-19 (A)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-19(A)	MW-19 (A)	7/20/2004								
MW-20(A)	MW-20(A)	10/20/2003	0.01 U	0.01 U						0.05 U
MW-20(A)	MW-20(A)	10/20/2003								
MW-20(A)	MW-20 (A)	1/13/2004	0.01 U	0.01 U						0.05 U
MW-20(A)	MW-20 (A)	1/13/2004								
MW-20(A)	MW-20(A)	4/15/2004	0.02 U	0.02 U						0.1 U
MW-20(A)	MW-20(A)	4/15/2004								
MW-20(A)	MW-20 (A)	7/20/2004	0.02 U	0.02 U						0.1 U
MW-20(A)	MW-20 (A)	7/20/2004								
MW-21(A)	MW-21(A)	10/20/2003	0.01 U	0.01 U						0.05 U
MW-21(A)	MW-21(A)	10/20/2003								
MW-21(A)	BM-21 (A)	1/13/2004	0.01 U	0.01 U						0.05 U
MW-21(A)	BM-21 (A)	1/13/2004								
MW-21(A)	MW-21 (A)	1/13/2004	0.01 U	0.01 U						0.05 U
MW-21(A)	MW-21 (A)	1/13/2004								
MW-21(A)	MW-21(A)	4/16/2004	0.02 U	0.02 U						0.5 U
MW-21(A)	MW-21(A)	4/16/2004								
MW-21(A)	MW-21 (A)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-21(A)	MW-21 (A)	7/20/2004								
MW-22(A)	MW-22 (A)	10/16/2003	0.01 U	0.01 U						0.05 U
MW-22(A)	MW-22 (A)	10/16/2003								
MW-22(A)	MW-22(A)	1/19/2004	0.01 U	0.01 U						0.05 U
MW-22(A)	MW-22(A)	1/19/2004								
MW-22(A)	MW-22(A)	4/15/2004	0.01 U	0.01 U						0.05 U
MW-22(A)	MW-22(A)	4/15/2004								
MW-22(A)	MW-22 (A)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-22(A)	MW-22 (A)	7/20/2004								
MW-23(A)	MW-23(A)	10/20/2003	0.01 U	0.01 U						0.05 U

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-23(A)	MW-23(A)	10/20/2003								
MW-23(A)	MW-23 (A)	1/15/2004	0.01 U	0.01 U						0.05 U
MW-23(A)	MW-23 (A)	1/15/2004								
MW-23(A)	BM-23(A)	4/15/2004	0.01 U	0.01 U						0.05 U
MW-23(A)	BM-23(A)	4/15/2004								
MW-23(A)	MW-23(A)	4/15/2004	0.01 U	0.01 U						0.05 U
MW-23(A)	MW-23(A)	4/15/2004								
MW-23(A)	MW-23 (A)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-23(A)	MW-23 (A)	7/20/2004								
MW-24(A)	MW-24(A)	10/21/2003	0.01 U	0.01 U						0.05 U
MW-24(A)	MW-24(A)	10/21/2003								
MW-24(A)	MW-24 (A)	1/15/2004	0.01 U	0.01 U						0.05 U
MW-24(A)	MW-24 (A)	1/15/2004								
MW-24(A)	MW-24(A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-24(A)	MW-24(A)	4/14/2004								
MW-24(A)	MW-24 (A)	7/22/2004	0.01 U	0.01 U						0.05 U
MW-24(A)	MW-24 (A)	7/22/2004								
MW-26(A)	MW-26 (A)	10/17/2003	0.01 U	0.01 U						5 U
MW-26(A)	MW-26 (A)	10/17/2003								
MW-26(A)	MW-26 (A)	1/15/2004	0.01 U	0.01 U						0.05 U
MW-26(A)	MW-26 (A)	1/15/2004								
MW-26(A)	MW-26(A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-26(A)	MW-26(A)	4/14/2004								
MW-26(A)	MW-26 (A)	7/22/2004	0.5 U	0.5 U						2.5 U
MW-26(A)	MW-26 (A)	7/22/2004								
MW-27(A)	MW-27(A)	10/21/2003	0.01 U	0.01 U						0.05 U
MW-27(A)	MW-27(A)	10/21/2003								
MW-27(A)	MW-27 (A)	1/14/2004	0.01 U	0.01 U						0.05 U
MW-27(A)	MW-27 (A)	1/14/2004								
MW-27(A)	MW-27 (A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-27(A)	MW-27 (A)	4/14/2004								
MW-27(A)	MW-27 (A)	7/22/2004	0.01 U	0.01 U						0.05 U
MW-27(A)	MW-27 (A)	7/22/2004								
MW-28(A)	MW-28 (A)	10/17/2003	0.01 U	0.01 U						5 U
MW-28(A)	MW-28 (A)	10/17/2003								
MW-28(A)	MW-28(A)	1/19/2004	0.01 U	0.01 U						0.05 U
MW-28(A)	MW-28(A)	1/19/2004								
MW-28(A)	MW-28(A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-28(A)	MW-28(A)	4/14/2004								

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28 (A)	7/23/2004	0.1 U	0.1 U						0.5 U
MW-28(A)	MW-28 (A)	7/23/2004								
MW-29(A)	MW-29(A)	10/21/2003	0.01 U	0.01 U						0.05 U
MW-29(A)	MW-29(A)	10/21/2003								
MW-29(A)	MW-29(A)	1/19/2004	0.0125	0.01 U						0.05 U
MW-29(A)	MW-29(A)	1/19/2004								
MW-29(A)	MW-29(A)	4/16/2004	0.02 U	0.02 U						0.1 U
MW-29(A)	MW-29(A)	4/16/2004								
MW-29(A)	MW-29 (A)	7/22/2004	0.5 U	0.5 U						2.5 U
MW-29(A)	MW-29 (A)	7/22/2004								
MW-30(A)	MW-30 (A)	10/16/2003	0.01 U	0.01 U						0.05 U
MW-30(A)	MW-30 (A)	10/16/2003								
MW-30(A)	MW-30 (A)	1/16/2004	0.01 U	0.01 U						0.05 U
MW-30(A)	MW-30 (A)	1/16/2004								
MW-30(A)	MW-30 (A)	4/13/2004	0.01 U	0.01 U						0.05 U
MW-30(A)	MW-30 (A)	4/13/2004								
MW-30(A)	MW-30 (A)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-30(A)	MW-30 (A)	7/20/2004								
MW-31(A)	BM-31 (A)	10/16/2003	0.01 U	0.01 U						0.05 U
MW-31(A)	BM-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	10/16/2003	0.01 U	0.01 U						0.05 U
MW-31(A)	MW-31 (A)	10/16/2003								
MW-31(A)	MW-31 (A)	1/12/2004	0.01 U	0.01 U						0.05 U
MW-31(A)	MW-31 (A)	1/12/2004								
MW-31(A)	BM-31 (A)	4/13/2004	0.01 U	0.01 U						0.05 U
MW-31(A)	BM-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	4/13/2004	0.02 U	0.02 U						0.1 U
MW-31(A)	MW-31 (A)	4/13/2004								
MW-31(A)	MW-31 (A)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-31(A)	MW-31 (A)	7/20/2004								
MW-32(A)	MW-32(A)	10/14/2003	0.01 U	0.01 U						0.05 U
MW-32(A)	MW-32(A)	10/14/2003								
MW-32(A)	MW-32 (A)	1/12/2004	0.01 U	0.01 U						0.05 U
MW-32(A)	MW-32 (A)	1/12/2004								
MW-32(A)	MW-32 (A)	4/13/2004	0.01 U	0.01 U						0.05 U
MW-32(A)	MW-32 (A)	4/13/2004								
MW-32(A)	MW-32 (A)	7/19/2004	0.01 U	0.01 U						0.05 U
MW-32(A)	MW-32 (A)	7/19/2004								

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-33(A)	MW-33(A)	10/14/2003	0.01 U	0.01 U						0.05 U
MW-33(A)	MW-33(A)	10/14/2003								
MW-33(A)	MW-33 (A)	1/12/2004	0.01 U	0.01 U						0.05 U
MW-33(A)	MW-33 (A)	1/12/2004								
MW-33(A)	MW-33 (A)	4/13/2004	0.01 U	0.01 U						0.05 U
MW-33(A)	MW-33 (A)	4/13/2004								
MW-33(A)	MW-33 (A)	7/19/2004	0.01 U	0.01 U						0.05 U
MW-33(A)	MW-33 (A)	7/19/2004								
MW-34(A)	MW-34(A)	10/14/2003	0.01 U	0.01 U						0.05 U
MW-34(A)	MW-34(A)	10/14/2003								
MW-34(A)	MW-34 (A)	1/13/2004	0.01 U	0.01 U						0.05 U
MW-34(A)	MW-34 (A)	1/13/2004								
MW-34(A)	MW-34 (A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-34(A)	MW-34 (A)	4/14/2004								
MW-34(A)	MW-34 (A)	7/20/2004	0.0306	0.0111						0.05 U
MW-34(A)	MW-34 (A)	7/20/2004								
MW-35(A)	MW-35 (A)	10/16/2003	0.01 U	0.01 U						0.05 U
MW-35(A)	MW-35 (A)	10/16/2003								
MW-35(A)	MW-35 (A)	1/16/2004	0.01 U	0.01 U						0.05 U
MW-35(A)	MW-35 (A)	1/16/2004								
MW-35(A)	MW-35 (A)	4/13/2004	0.01 U	0.01 U						0.05 U
MW-35(A)	MW-35 (A)	4/13/2004								
MW-35(A)	MW-35 (A)	7/20/2004	0.01 U	0.01 U						0.05 U
MW-35(A)	MW-35 (A)	7/20/2004								
MW-36(A)	MW-36(A)	10/21/2003	0.01 U	0.01 U						0.05 U
MW-36(A)	MW-36(A)	10/21/2003								
MW-36(A)	MW-36 (A)	1/14/2004	0.01 U	0.01 U						0.05 U
MW-36(A)	MW-36 (A)	1/14/2004								
MW-36(A)	MW-36 (A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-36(A)	MW-36 (A)	4/14/2004								
MW-36(A)	MW-36 (A)	7/22/2004	0.01 U	0.01 U						0.05 U
MW-36(A)	MW-36 (A)	7/22/2004	0.01 U	0.01 U						0.05 U
MW-36(A)	MW-36 (A)	7/22/2004								
MW-37(A)	MW-37 (A)	10/17/2003	0.01 U	0.01 U						0.05 U
MW-37(A)	MW-37 (A)	10/17/2003								
MW-38(A)	MW-38(A)	10/21/2003	0.01 U	0.01 U						0.05 U
MW-38(A)	MW-38(A)	10/21/2003								
MW-38(A)	MW-38 (A)	1/14/2004	0.01 U	0.01 U						0.05 U

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Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	1/14/2004								
MW-38(A)	MW-38 (A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-38(A)	MW-38 (A)	4/14/2004								
MW-38(A)	MW-38 (A)	7/22/2004	0.0412	0.01 U						0.05 U
MW-38(A)	MW-38 (A)	7/22/2004								
MW-39(A)	MW-39 (A)	10/16/2003	0.01 U	0.01 U						0.05 U
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	1/16/2004	0.01 U	0.01 U						0.05 U
MW-39(A)	MW-39 (A)	1/16/2004								
MW-39(A)	MW-39 (A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-39(A)	MW-39 (A)	4/14/2004								
MW-39(A)	MW-39 (A)	7/21/2004	0.01 U	0.01 U						0.05 U
MW-39(A)	MW-39 (A)	7/21/2004								
MW-39(A)	Trip Blank	7/21/2004								
MW-39(A)	Trip Blank	7/22/2004								
MW-40(A)	MW-40 (A)	10/17/2003	0.01 U	0.01 U						0.05 U
MW-40(A)	MW-40 (A)	10/17/2003								
MW-40(A)	MW-40(A)	1/20/2004	0.02 U	0.02 U						0.1 U
MW-40(A)	MW-40(A)	1/20/2004								
MW-40(A)	MW-40(A)	4/16/2004	0.04 U	0.04 U						0.2 U
MW-40(A)	MW-40(A)	4/16/2004								
MW-41(A)	MW-41(A)	10/14/2003	0.02 U	0.01 U						1.25 U
MW-41(A)	MW-41(A)	10/14/2003								
MW-42(A)	MW-42 (A)	10/15/2003	0.01 U	0.01 U						0.05 U
MW-42(A)	MW-42 (A)	10/15/2003								
MW-43(A)	MW-43(A)	10/13/2003	0.01 U	0.01 U						0.05 U
MW-43(A)	MW-43(A)	10/13/2003								
MW-43(A)	MW-43 (A)	1/12/2004	0.01 U	0.01 U						0.05 U
MW-43(A)	MW-43 (A)	1/12/2004								
MW-43(A)	MW-43 (A)	4/13/2004	0.01 U	0.01 U						0.05 U
MW-43(A)	MW-43 (A)	4/13/2004								
MW-43(A)	MW-43 (A)	7/21/2004	0.01 U	0.01 U						0.05 U
MW-43(A)	MW-43 (A)	7/21/2004								
MW-44(A)	MW-44 (A)	10/17/2003	0.01 U	0.01 U						0.05 U
MW-44(A)	MW-44 (A)	10/17/2003								
MW-45(A)	MW-45 (A)	10/16/2003	0.01 U	0.01 U						0.05 U

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Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-45(A)	MW-45 (A)	10/16/2003								
MW-45(A)	MW-45 (A)	1/16/2004	0.01 U	0.01 U						0.05 U
MW-45(A)	MW-45 (A)	1/16/2004								
MW-45(A)	MW-45 (A)	4/14/2004	0.01 U	0.01 U						0.05 U
MW-45(A)	MW-45 (A)	4/14/2004								
MW-45(A)	MW-45 (A)	7/21/2004	0.01 U	0.01 U						0.05 U
MW-45(A)	MW-45 (A)	7/21/2004								
MW-46(A)	MW-46(A)	10/14/2003	0.01 U	0.01 U						0.05 U
MW-46(A)	MW-46(A)	10/14/2003								
MW-46(A)	MW-46(A)	1/14/2004	0.01 U	0.01 U						0.05 U
MW-46(A)	MW-46(A)	1/14/2004								
MW-46(A)	MW-46 (A)	4/12/2004	0.01 U	0.01 U						0.05 U
MW-46(A)	MW-46 (A)	4/12/2004								
MW-46(A)	MW-46 (A)	7/21/2004	0.01 U	0.01 U						0.05 U
MW-46(A)	MW-46 (A)	7/21/2004								
MW-47(A)	MW-47(A)	10/13/2003	0.01 U	0.01 U						0.05 U
MW-47(A)	MW-47(A)	10/13/2003								
MW-47(A)	MW-47 (A)	1/14/2004	0.01 U	0.01 U						0.05 U
MW-47(A)	MW-47 (A)	1/14/2004								
MW-47(A)	MW-47 (A)	4/12/2004	0.01 U	0.01 U						0.05 U
MW-47(A)	MW-47 (A)	4/12/2004								
MW-47(A)	MW-47 (A)	7/21/2004	0.01 U	0.01 U						0.05 U
MW-47(A)	MW-47 (A)	7/21/2004								
MW-48(A)	MW-48(A)	10/14/2003	0.0157	0.01 U						0.123
MW-48(A)	MW-48(A)	10/14/2003								
MW-48(A)	MW-48 (A)	1/14/2004	0.01 U	0.01 U						0.05 U
MW-48(A)	MW-48 (A)	1/14/2004								
MW-48(A)	MW-48 (A)	4/12/2004	0.0122	0.01 U						0.0507
MW-48(A)	MW-48 (A)	4/12/2004								
MW-48(A)	MW-48 (A)	7/21/2004	0.0282	0.01 U						0.106
MW-48(A)	MW-48 (A)	7/21/2004								
R-1(M)	R-1(M)	10/22/2003	0.015	0.01 U						0.05 U
R-1(M)	R-1(M)	10/22/2003								
TW-100(C)	SB100(C)W	8/22/2002	0.01 U	0.01 U						0.05 U
TW-100(C)	SB100(C)W	8/22/2002								
TW-103(C)	SB103(C)W	8/22/2002								
TW-104(C)	SB104(C)W	8/22/2002								

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Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-200(C)	SB200(C)W	8/22/2002	0.01 U	0.01 U						0.05 U
TW-200(C)	SB200(C)W	8/22/2002								
TW-201(C)	SB201(C)W	8/22/2002	0.01 U	0.01 U						0.05 U
TW-201(C)	SB201(C)W	8/22/2002								
TW-202(C)	SB202(C)W	8/22/2002	0.01 U	0.01 U						0.05 U
TW-202(C)	SB202(C)W	8/22/2002								
TW-203(C)	SB203(C)W	8/22/2002	0.01 U	0.01 U						0.05 U
TW-203(C)	SB203(C)W	8/22/2002								
TW-204(C)	SB204(C)W	8/22/2002	0.01 U	0.01 U						0.05 U
TW-204(C)	SB204(C)W	8/22/2002								
TW-204(C)	SB204(C)W2	8/22/2002	0.01 U	0.01 U						0.05 U
TW-204(C)	SB204(C)W2	8/22/2002								
TW-304(D)	SB-304-D-9.0	8/19/2002	0.01 U	0.01 U						0.05 U
TW-304(D)	SB-304-D-9.0 DUP	8/19/2002	0.01 U	0.01 U						0.05 U
TW-305(D)	SB-305-D-9.0	8/19/2002	0.5 U	0.5 U						2.5 U
TW-305(D)	SB-305-D-9.0	8/19/2002								
TW-306(D)	SB-306-D-9.0	8/19/2002	0.05 U	0.01 U						0.05 U
TW-307(D)	SB-307-D-9.0	8/19/2002	0.01 U	0.01 U						5 U
TW-309(D)	SB-309-D-9.0	8/19/2002	0.01 U	0.01 U						0.05 U
TW-309(D)	SB-309-D-9.0	8/19/2002								
TW-311(D)	SB-311-D-10.0	8/19/2002	0.01 U	0.01 U						0.05 U
TW-312(D)	SB-312-D-10.0	8/19/2002	0.01 U	0.01 U						0.05 U
TW-312(D)	SB-312-D-10.0	8/19/2002								
TW-313(D)	TW-313-D-22.0	8/20/2002	0.05 U	0.01 U						0.05 U
TW-314(D)	TW-314-D-22.0	8/20/2002	0.05 U	0.01 U						0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002	0.01 U	0.01 U						0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002								
TW-319(D)	SB-319-D-14.0	8/19/2002	0.01 U	0.01 U						0.05 U
TW-400(F)	TW-400(F)	8/22/2002	0.01 U	0.01 U						0.05 U
TW-600(N)	TW-600(N)	9/13/2002	0.25 U	0.25 U						0.05 U
TW-600(N)	TW-600(N)	9/13/2002								
TW-601(N)	TW-601(N)	9/13/2002	2.5 U	0.01 U						0.05 U
TW-601(N)	TW-601(N)	9/13/2002								
TW-602(N)	BT-602(N)	9/13/2002	0.01 U	0.01 U						0.05 U
TW-602(N)	BT-602(N)	9/13/2002								
TW-602(N)	TW-602(N)	9/13/2002	0.01 U	0.01 U						0.05 U
TW-602(N)	TW-602(N)	9/13/2002								
TW-603(N)	TW-603(N)	9/13/2002	0.01 U	0.01 U						0.05 U
TW-603(N)	TW-603(N)	9/13/2002								
TW-608(N)	TW-608 (N)	9/13/2002	0.01 U	0.01 U						0.05 U

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Locator ID	Sample ID	Sample Date	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Fluoranthene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002								
TW-612(N)	TW-612(N)	9/12/2002	0.05 U	0.05 U						0.05 U
TW-612(N)	TW-612(N)	9/12/2002								
TW-616(N)	TW-616(N)	9/12/2002	0.01 U	0.01 U						0.05 U
TW-616(N)	TW-616(N)	9/12/2002								
TW-619(N)	TW-619(N)	9/12/2002	0.01 U	0.01 U						0.05 U
TW-619(N)	TW-619(N)	9/12/2002								
TW-623(N)	TW-623(N)	9/12/2002	0.01 U	0.01 U						0.05 U
TW-623(N)	TW-623(N)	9/12/2002								
TW-624(N)	TW-624(N)	9/12/2002	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
TW-624(N)	TW-624(N)	9/12/2002								
TW-625(N)	BT-625(N)	9/12/2002	0.01 U	0.01 U						0.05 U
TW-625(N)	TW-625(N)	9/12/2002	0.01 U	0.01 U						0.05 U
TW-700(P)	TW-700(P)	8/21/2002	1 U J	1 U J						1 U J
TW-700(P)	TW-700(P)	8/21/2002								
TW-701(P)	TW-701(P)	8/20/2002								
TW-702(P)	TW-702(P)	8/21/2002	0.01 U J	0.01 U J						0.05 U J
TW-702(P)	TW-702(P)	8/21/2002								
TW-703(P)	TW-703(P)	8/21/2002								
TW-704(P)	TW-704(P)	8/21/2002								
TW-705(P)	TW-705(P)	8/20/2002	0.0114 U J	0.0114 U J						0.0571 U J
TW-706(P)	TW-706(P)	8/21/2002								
TW-707(P)	TW-707(P)	8/21/2002								
TW-708(P)	BT-708(P)	8/20/2002	2 U J	0.01 U J						2 U J
TW-708(P)	BT-708(P)	8/20/2002								
TW-708(P)	TW-708(P)	8/20/2002	2.5 U J	2.5 U J						2.5 U J
TW-708(P)	TW-708(P)	8/20/2002								
TW-709(P)	TW-709(P)	8/21/2002								
TW-710(P)	TW-710(P)	8/21/2002	0.01 U J	0.01 U J						0.05 U J
TW-710(P)	TW-710(P)	8/21/2002								
TW-711(P)	BT-711(P)	8/21/2002								
TW-711(P)	TW-711(P)	8/21/2002								
TW-712(P)	TW-712(P)	8/21/2002	0.0161 J	0.01 U J						0.05 U J
TW-712(P)	TW-712(P)	8/21/2002								
TW-714(P)	TW-714(P)	8/21/2002	2.5 U J	2.5 U J						2.5 U J
TW-714(P)	TW-714(P)	8/21/2002								
TW-716(P)	TW-716(P)	8/20/2002	0.01 U J	0.01 U J						0.05 U J
TW-716(P)	TW-716(P)	8/20/2002								
TW-717(P)	TW-717(P)	8/20/2002	0.2 U J	0.01 U J						0.2 U J
TW-717(P)	TW-717(P)	8/20/2002								
TW-718(P)	TW-718(P)	8/21/2002	0.01 U J	0.01 U J						0.05 U J
TW-718(P)	TW-718(P)	8/21/2002								

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			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-719(P)	BT-719(P)	8/23/2002	0.01 U	0.01 U						0.05 U
TW-719(P)	BT-719(P)	8/23/2002								
TW-719(P)	TW-719(P)	8/23/2002	0.01 U	0.01 U						0.05 U
TW-719(P)	TW-719(P)	8/23/2002								
TW-720(P)	TW-720(P)	8/23/2002	0.05 U	0.05 U						0.05 U
TW-720(P)	TW-720(P)	8/23/2002								
TW-900(S)	SB-900(TW)	8/26/2002	0.01 U	0.01 U						0.05 U
TW-901(S)	SB-901(TW)	8/26/2002	1 U	1 U						1 U
TW-901(S)	SB-901(TW)	8/26/2002								
TW-902(S)	SB-902(TW)	8/26/2002	0.5 U	0.5 U						0.5 U
TW-903(S)	SB-903(TW)	8/26/2002	0.2 U	0.2 U						0.2 U
TW-903(S)	SB-903(TW)	8/26/2002								
TW-904(S)	SB-904(TW)	8/26/2002	0.1 U	0.1 U						0.1 U
TW-904(S)	SB-904(TW)	8/26/2002								
TW-905(S)	SB-905(TW)	8/26/2002								
TW-906(S)	SB-906(TW)	8/27/2002	0.01 U	0.01 U						0.05 U
TW-906(S)	SB-906(TW)	8/27/2002								
TW-908(S)	SB-908(TW)	8/27/2002	0.01 U	0.01 U						0.05 U
TW-908(S)	SB-908(TW)	8/27/2002								
TW-909(S)	SB-909(TW)	8/27/2002	0.01 U	0.01 U						0.05 U
TW-910(S)	SB-910(TW)	8/26/2002	0.01 U	0.01 U						0.05 U
TW-911(S)	SB-911(TW)	8/27/2002	0.1 U	0.1 U						0.1 U
TW-911(S)	SB-911(TW)	8/27/2002								

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Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002	0.12				0.01 U		2 U	
MW-1(F)	MW-1-082302	8/23/2002							0.1 U	
MW-1(F)	MW-1(F)	10/22/2003	0.05 U				0.01 U		2 U B	
MW-1(F)	MW-1(F)	10/22/2003							0.947	
MW-1(F)	MW-1 (F)	1/15/2004	0.209				0.01 U		0.3 J	
MW-1(F)	MW-1 (F)	1/15/2004							1.5 U	
MW-1(F)	MW-1(F)	4/15/2004	0.134				0.01 U		0.72 J	
MW-1(F)	MW-1(F)	4/15/2004							2.3 U	
MW-1(F)	MW-1 (F)	7/20/2004	0.0967				0.01 U		1.25 U	
MW-1(F)	MW-1 (F)	7/20/2004							2.05	
MW-2(M)	MW-2(M)	6/19/2003	2.16				0.5 U		656	
MW-2(M)	MW-2(M)	6/19/2003							524	
MW-2(M)	MW-2 (M)	10/15/2003	1.33				0.01 U		125	
MW-2(M)	MW-2 (M)	10/15/2003							89.4	
MW-2(M)	MW-2 (M)	1/12/2004	0.78				0.02 U		4.08	
MW-2(M)	MW-2 (M)	1/12/2004							3.42	
MW-2(M)	MW-2(M)	4/14/2004	0.88				0.1 U		334	
MW-2(M)	MW-2(M)	4/14/2004							143	
MW-2(M)	MW-2 (M)	7/22/2004	1.83				0.1 U		132	
MW-2(M)	MW-2 (M)	7/22/2004							179	
MW-6(M)	MW-6(M)	6/19/2003	0.1 U				0.1 U		2 U	
MW-6(M)	MW-6(M)	6/19/2003							0.1 U	
MW-6(M)	MW-6(M)	10/22/2003	0.05 U				0.01 U		2 U	
MW-6(M)	MW-6(M)	10/22/2003							0.05 U	
MW-6(M)	MW-6 (M)	1/12/2004	0.05 U				0.01 U		0.05 U	
MW-6(M)	MW-6 (M)	1/12/2004							0.4	
MW-6(M)	MW-6 (M)	4/13/2004	0.05 U				0.01 U		2 U	
MW-6(M)	MW-6 (M)	4/13/2004							0.05 U	
MW-6(M)	MW-6 (M)	7/19/2004	0.05 U				0.01 U		2 U	
MW-6(M)	MW-6 (M)	7/19/2004							0.05 U	
MW-7(M)	BM-7(M)	6/19/2003	0.1 U				0.1 U		2 U	
MW-7(M)	BM-7(M)	6/19/2003							0.1 U	
MW-7(M)	MW-7(M)	6/19/2003	0.1 U				0.1 U		2 U	
MW-7(M)	MW-7(M)	6/19/2003							0.1 U	
MW-7(M)	MW-7(M)	10/13/2003	0.05 U				0.01 U		2 U	
MW-7(M)	MW-7(M)	10/13/2003							0.05 U	
MW-7(M)	MW-7 (M)	1/12/2004	0.05 U				0.01 U		2 U	
MW-7(M)	MW-7 (M)	1/12/2004							0.05 U	
MW-7(M)	MW-7 (M)	4/12/2004	0.05 U				0.01 U		2 U	
MW-7(M)	MW-7 (M)	4/12/2004							0.05 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	7/19/2004	0.05 U				0.01 U		0.26 J	
MW-7(M)	MW-7 (M)	7/19/2004							0.0868	
MW-10(M)	MW-10(M)	6/19/2003	2 U				0.5 U		20.6	
MW-10(M)	MW-10(M)	6/19/2003							16.3	
MW-10(M)	MW-10 (M)	10/15/2003	0.238				0.0408		65.3	
MW-10(M)	MW-10 (M)	10/15/2003							12	
MW-10(M)	MW-10 (M)	1/13/2004	1 U				0.01 U		3 U	
MW-10(M)	MW-10 (M)	1/13/2004							1.64	
MW-10(M)	MW-10 (M)	4/13/2004	0.187				0.02 U		5.07	
MW-10(M)	MW-10 (M)	4/13/2004							5 U	
MW-10(M)	MW-10 (M)	7/19/2004	0.154				0.01 U		2.57	
MW-10(M)	MW-10 (M)	7/19/2004							2.5 U	
MW-11(M)	MW-11(M)	6/19/2003	0.1 U				0.1 U		2 U	
MW-11(M)	MW-11(M)	6/19/2003							0.35 U	
MW-11(M)	MW-11 (M)	10/15/2003	0.05 U				0.01 U		0.66 J	
MW-11(M)	MW-11 (M)	10/15/2003							0.4 U	
MW-11(M)	MW-11 (M)	1/13/2004	0.05 U				0.01 U		0.325 U	
MW-11(M)	MW-11 (M)	1/13/2004							2 U	
MW-11(M)	MW-11 (M)	4/13/2004	0.05 U				0.01 U		0.25 U	
MW-11(M)	MW-11 (M)	4/13/2004							0.51 J	
MW-11(M)	MW-11 (M)	7/21/2004	0.05 U				0.01 U		2 U	
MW-11(M)	MW-11 (M)	7/21/2004							0.11 U	
MW-12(A)	MW-12(A)	10/22/2003	0.05 U				0.01 U		2 U B	
MW-12(A)	MW-12(A)	10/22/2003							0.05 U	
MW-12(A)	MW-12 (A)	1/15/2004	0.05 U				0.01 U		0.05 U	
MW-12(A)	MW-12 (A)	1/15/2004							2 U	
MW-12(A)	MW-12(A)	4/16/2004	0.05 U				0.01 U		0.0873	
MW-12(A)	MW-12(A)	4/16/2004							2 U	
MW-12(A)	MW-12 (A)	7/22/2004	0.05 U				0.01 U		0.0584	
MW-12(A)	MW-12 (A)	7/22/2004							2 U	
MW-13(A)	MW-13(A)	10/22/2003	0.05 U				0.01 U		122	
MW-13(A)	MW-13(A)	10/22/2003							65.4	
MW-13(A)	MW-13 (A)	1/15/2004	0.1 U				0.02 U		75.7	
MW-13(A)	MW-13 (A)	1/15/2004							223	
MW-13(A)	MW-13(A)	4/16/2004	0.1 U				0.02 U		282	
MW-13(A)	MW-13(A)	4/16/2004							94.5	
MW-13(A)	MW-13 (A)	7/22/2004	0.5 U				0.1 U		118	
MW-13(A)	MW-13 (A)	7/22/2004							122	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-14(A)	MW-14(A)	10/21/2003	0.05 U				0.01 U		2 U B	
MW-14(A)	MW-14(A)	10/21/2003							0.977	
MW-14(A)	MW-14 (A)	1/15/2004	0.05 U				0.01 U		0.19 J	
MW-14(A)	MW-14 (A)	1/15/2004							0.05 U	
MW-14(A)	MW-14(A)	4/16/2004	0.05 U				0.01 U		0.05 U	
MW-14(A)	MW-14(A)	4/16/2004							2 U	
MW-14(A)	MW-14 (A)	7/23/2004	0.05 U				0.01 U		2 U	
MW-14(A)	MW-14 (A)	7/23/2004							0.0668	
MW-15(A)	MW-15(A)	10/20/2003	0.0941				0.01 U		2.11 J,B	
MW-15(A)	MW-15(A)	10/20/2003							1.28	
MW-16(A)	MW-16(A)	10/20/2003	0.05 U				0.01 U		2 U B	
MW-16(A)	MW-16(A)	10/20/2003							0.35 U	
MW-16(A)	MW-16(A)	1/19/2004	0.05 U				0.01 U		0.28 J	
MW-16(A)	MW-16(A)	1/19/2004							0.15 U	
MW-16(A)	MW-16(A)	4/15/2004	0.05 U				0.01 U		0.86 J	
MW-16(A)	MW-16(A)	4/15/2004							0.45 U	
MW-16(A)	MW-16 (A)	7/22/2004	0.05 U				0.01 U		0.74	
MW-16(A)	MW-16 (A)	7/22/2004							0.49 J	
MW-17 (A)	BM-17 (A)	7/22/2004	0.05 U				0.01 U		0.68 J	
MW-17 (A)	BM-17 (A)	7/22/2004							0.246	
MW-17(A)	MW-17 (A)	10/17/2003	0.05 U				0.01 U		2.37	
MW-17(A)	MW-17 (A)	10/17/2003							4.88	
MW-17(A)	BM-17(A)	1/19/2004	0.05 U				0.01 U		19.5	
MW-17(A)	BM-17(A)	1/19/2004							0.125 U	
MW-17(A)	MW-17(A)	1/19/2004	0.05 U				0.01 U		19	
MW-17(A)	MW-17(A)	1/19/2004							0.25 U	
MW-17(A)	MW-17(A)	4/15/2004	0.05 U				0.01 U		15.6	
MW-17(A)	MW-17(A)	4/15/2004							5.04	
MW-17(A)	MW-17 (A)	7/22/2004	0.05 U				0.01 U		0.649	
MW-17(A)	MW-17 (A)	7/22/2004							0.66 J	
MW-18(A)	MW-18(A)	10/21/2003	0.22				0.01 U		4 U B	
MW-18(A)	MW-18(A)	10/21/2003							0.44	
MW-18(A)	MW-18(A)	1/19/2004	0.39				0.01 U		1.53 J	
MW-18(A)	MW-18(A)	1/19/2004							0.688	
MW-18(A)	MW-18(A)	4/15/2004	0.197				0.01 U		0.119	
MW-18(A)	MW-18(A)	4/15/2004							0.99 J	
MW-18(A)	MW-18 (A)	7/21/2004	0.113				0.01 U		0.52 J	
MW-18(A)	MW-18 (A)	7/21/2004							0.483	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-19(A)	BM-19(A)	10/20/2003	0.05 U				0.01 U		2 U	
MW-19(A)	BM-19(A)	10/20/2003							0.05 U	
MW-19(A)	MW-19(A)	10/20/2003	0.05 U				0.01 U		2 U	
MW-19(A)	MW-19(A)	10/20/2003							0.05 U	
MW-19(A)	MW-19 (A)	1/13/2004	0.05 U				0.01 U		0.05 U	
MW-19(A)	MW-19 (A)	1/13/2004							2 U	
MW-19(A)	MW-19(A)	4/15/2004	0.05 U				0.01 U		0.128	
MW-19(A)	MW-19(A)	4/15/2004							2 U	
MW-19(A)	BM-19 (A)	7/20/2004	0.05 U				0.01 U		0.168	
MW-19(A)	BM-19 (A)	7/20/2004							0.92 J	
MW-19(A)	MW-19 (A)	7/20/2004	0.05 U				0.01 U		1.09 J	
MW-19(A)	MW-19 (A)	7/20/2004							0.15	
MW-20(A)	MW-20(A)	10/20/2003	0.434				0.01 U		11.1	
MW-20(A)	MW-20(A)	10/20/2003							3.93	
MW-20(A)	MW-20 (A)	1/13/2004	0.527				0.01 U		9.6	
MW-20(A)	MW-20 (A)	1/13/2004							36.5	
MW-20(A)	MW-20(A)	4/15/2004	0.312				0.02 U		0.8 U	
MW-20(A)	MW-20(A)	4/15/2004							1.94	
MW-20(A)	MW-20 (A)	7/20/2004	0.504				0.02 U		2.77	
MW-20(A)	MW-20 (A)	7/20/2004							5.12	
MW-21(A)	MW-21(A)	10/20/2003	0.327				0.01 U		3.04	
MW-21(A)	MW-21(A)	10/20/2003							1.83	
MW-21(A)	BM-21 (A)	1/13/2004	0.374				0.01 U		1.75	
MW-21(A)	BM-21 (A)	1/13/2004							3.76	
MW-21(A)	MW-21 (A)	1/13/2004	0.256				0.01 U		0.765	
MW-21(A)	MW-21 (A)	1/13/2004							4.01	
MW-21(A)	MW-21(A)	4/16/2004	0.5 U				0.02 U		1.27	
MW-21(A)	MW-21(A)	4/16/2004							1.11 J	
MW-21(A)	MW-21 (A)	7/20/2004	0.516				0.01 U		2.96	
MW-21(A)	MW-21 (A)	7/20/2004							2.09	
MW-22(A)	MW-22 (A)	10/16/2003	0.05 U				0.01 U		2.61	
MW-22(A)	MW-22 (A)	10/16/2003							40.5	
MW-22(A)	MW-22(A)	1/19/2004	0.05 U				0.01 U		2 U	
MW-22(A)	MW-22(A)	1/19/2004							0.0931	
MW-22(A)	MW-22(A)	4/15/2004	0.05 U				0.01 U		0.0757	
MW-22(A)	MW-22(A)	4/15/2004							0.32	
MW-22(A)	MW-22 (A)	7/20/2004	0.05 U				0.01 U		0.93	
MW-22(A)	MW-22 (A)	7/20/2004							0.81 J	
MW-23(A)	MW-23(A)	10/20/2003	0.05 U				0.01 U		0.0617	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-23(A)	MW-23(A)	10/20/2003							2 U	
MW-23(A)	MW-23 (A)	1/15/2004	0.05 U				0.01 U		0.225 U	
MW-23(A)	MW-23 (A)	1/15/2004							2 U	
MW-23(A)	BM-23(A)	4/15/2004	0.05 U				0.01 U		1.21	
MW-23(A)	BM-23(A)	4/15/2004							7.47	
MW-23(A)	MW-23(A)	4/15/2004	0.05 U				0.01 U		9.17	
MW-23(A)	MW-23(A)	4/15/2004							1.14	
MW-23(A)	MW-23 (A)	7/20/2004	0.05 U				0.01 U		2 U	
MW-23(A)	MW-23 (A)	7/20/2004							0.0525	
MW-24(A)	MW-24(A)	10/21/2003	0.05 U				0.01 U		0.05 U	
MW-24(A)	MW-24(A)	10/21/2003							2 U B	
MW-24(A)	MW-24 (A)	1/15/2004	0.05 U				0.01 U		114	
MW-24(A)	MW-24 (A)	1/15/2004							44.6	
MW-24(A)	MW-24(A)	4/14/2004	0.05 U				0.01 U		20.8	
MW-24(A)	MW-24(A)	4/14/2004							40.9	
MW-24(A)	MW-24 (A)	7/22/2004	0.05 U				0.01 U		23	
MW-24(A)	MW-24 (A)	7/22/2004							13.4	
MW-26(A)	MW-26 (A)	10/17/2003	5 U				0.01 U		280	
MW-26(A)	MW-26 (A)	10/17/2003							107	
MW-26(A)	MW-26 (A)	1/15/2004	0.0718				0.01 U		564	
MW-26(A)	MW-26 (A)	1/15/2004							1030	
MW-26(A)	MW-26(A)	4/14/2004	0.0595				0.01 U		801	
MW-26(A)	MW-26(A)	4/14/2004							464	
MW-26(A)	MW-26 (A)	7/22/2004	2.5 U				0.5 U		869	
MW-26(A)	MW-26 (A)	7/22/2004							534	
MW-27(A)	MW-27(A)	10/21/2003	0.05 U				0.01 U		2 U	
MW-27(A)	MW-27(A)	10/21/2003							0.158	
MW-27(A)	MW-27 (A)	1/14/2004	0.05 U				0.01 U		2 U	
MW-27(A)	MW-27 (A)	1/14/2004							0.0512	
MW-27(A)	MW-27 (A)	4/14/2004	0.05 U				0.01 U		0.0763	
MW-27(A)	MW-27 (A)	4/14/2004							2 U	
MW-27(A)	MW-27 (A)	7/22/2004	0.05 U				0.01 U		2 U	
MW-27(A)	MW-27 (A)	7/22/2004							0.125 U	
MW-28(A)	MW-28 (A)	10/17/2003	5 U				0.01 U		157	
MW-28(A)	MW-28 (A)	10/17/2003							112	
MW-28(A)	MW-28(A)	1/19/2004	0.076				0.01 U		398	
MW-28(A)	MW-28(A)	1/19/2004							78.4	
MW-28(A)	MW-28(A)	4/14/2004	0.0763				0.01 U		118	
MW-28(A)	MW-28(A)	4/14/2004							66.9	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28 (A)	7/23/2004	0.5 U				0.1 U		68.6	
MW-28(A)	MW-28 (A)	7/23/2004							113	
MW-29(A)	MW-29(A)	10/21/2003	0.0811				0.01 U		1340	
MW-29(A)	MW-29(A)	10/21/2003							1640	
MW-29(A)	MW-29(A)	1/19/2004	0.101				0.01 U		1310	
MW-29(A)	MW-29(A)	1/19/2004							867	
MW-29(A)	MW-29(A)	4/16/2004	0.1 U				0.02 U		1000	
MW-29(A)	MW-29(A)	4/16/2004							806	
MW-29(A)	MW-29 (A)	7/22/2004	2.5 U				0.5 U		1360	
MW-29(A)	MW-29 (A)	7/22/2004							1040	
MW-30(A)	MW-30 (A)	10/16/2003	0.0569				0.01 U		531	
MW-30(A)	MW-30 (A)	10/16/2003							1130	
MW-30(A)	MW-30 (A)	1/16/2004	0.0613				0.01 U		1200	
MW-30(A)	MW-30 (A)	1/16/2004							696	
MW-30(A)	MW-30 (A)	4/13/2004	0.05 U				0.01 U		1030	
MW-30(A)	MW-30 (A)	4/13/2004							381	
MW-30(A)	MW-30 (A)	7/20/2004	0.0577				0.01 U		1240	
MW-30(A)	MW-30 (A)	7/20/2004							1130	
MW-31(A)	BM-31 (A)	10/16/2003	0.0515				0.01 U		15.3 J	
MW-31(A)	BM-31 (A)	10/16/2003							8.36	
MW-31(A)	MW-31 (A)	10/16/2003	0.0582				0.01 U		10	
MW-31(A)	MW-31 (A)	10/16/2003							16.2	
MW-31(A)	MW-31 (A)	1/12/2004	0.0661				0.01 U		9.96	
MW-31(A)	MW-31 (A)	1/12/2004							13.5	
MW-31(A)	BM-31 (A)	4/13/2004	0.05 U				0.01 U		116	
MW-31(A)	BM-31 (A)	4/13/2004							67.6	
MW-31(A)	MW-31 (A)	4/13/2004	0.1 U				0.02 U		64.1	
MW-31(A)	MW-31 (A)	4/13/2004							145	
MW-31(A)	MW-31 (A)	7/20/2004	0.05 U				0.01 U		167	
MW-31(A)	MW-31 (A)	7/20/2004							191	
MW-32(A)	MW-32(A)	10/14/2003	0.05 U				0.01 U		2 U	
MW-32(A)	MW-32(A)	10/14/2003							0.05 U	
MW-32(A)	MW-32 (A)	1/12/2004	0.05 U				0.01 U		0.05 U	
MW-32(A)	MW-32 (A)	1/12/2004							2 U	
MW-32(A)	MW-32 (A)	4/13/2004	0.05 U				0.01 U		0.075 U	
MW-32(A)	MW-32 (A)	4/13/2004							2 U	
MW-32(A)	MW-32 (A)	7/19/2004	0.05 U				0.01 U		2 U	
MW-32(A)	MW-32 (A)	7/19/2004							0.05 U	

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Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-33(A)	MW-33(A)	10/14/2003	0.05 U				0.01 U		2 U	
MW-33(A)	MW-33(A)	10/14/2003							0.07 U	
MW-33(A)	MW-33 (A)	1/12/2004	0.05 U				0.01 U		0.175 U B	
MW-33(A)	MW-33 (A)	1/12/2004							0.19 J	
MW-33(A)	MW-33 (A)	4/13/2004	0.05 U				0.01 U		2 U	
MW-33(A)	MW-33 (A)	4/13/2004							0.65 U	
MW-33(A)	MW-33 (A)	7/19/2004	0.05 U				0.01 U		2 U	
MW-33(A)	MW-33 (A)	7/19/2004							0.825 U	
MW-34(A)	MW-34(A)	10/14/2003	0.05 U				0.01 U		2 U	
MW-34(A)	MW-34(A)	10/14/2003							0.0623	
MW-34(A)	MW-34 (A)	1/13/2004	0.05 U				0.01 U		0.116	
MW-34(A)	MW-34 (A)	1/13/2004							2 U	
MW-34(A)	MW-34 (A)	4/14/2004	0.05 U				0.01 U		0.162	
MW-34(A)	MW-34 (A)	4/14/2004							2 U	
MW-34(A)	MW-34 (A)	7/20/2004	0.05 U				0.012		2 U	
MW-34(A)	MW-34 (A)	7/20/2004							0.05 U	
MW-35(A)	MW-35 (A)	10/16/2003	0.05 U				0.01 U		1.04 J	
MW-35(A)	MW-35 (A)	10/16/2003							0.124	
MW-35(A)	MW-35 (A)	1/16/2004	0.05 U				0.01 U		0.31 J	
MW-35(A)	MW-35 (A)	1/16/2004							0.349	
MW-35(A)	MW-35 (A)	4/13/2004	0.05 U				0.01 U		0.05 U	
MW-35(A)	MW-35 (A)	4/13/2004							2 U	
MW-35(A)	MW-35 (A)	7/20/2004	0.05 U				0.01 U		2 U	
MW-35(A)	MW-35 (A)	7/20/2004							0.05 U	
MW-36(A)	MW-36(A)	10/21/2003	0.05 U				0.01 U		2 U	
MW-36(A)	MW-36(A)	10/21/2003							0.05 U	
MW-36(A)	MW-36 (A)	1/14/2004	0.05 U				0.01 U		0.68 J	
MW-36(A)	MW-36 (A)	1/14/2004							0.05 U	
MW-36(A)	MW-36 (A)	4/14/2004	0.05 U				0.01 U		0.84 J	
MW-36(A)	MW-36 (A)	4/14/2004							0.214	
MW-36(A)	MW-36 (A)	7/22/2004	0.05 U				0.01 U		0.05 U	
MW-36(A)	MW-36 (A)	7/22/2004	0.05 U				0.01 U		0.05 U	
MW-36(A)	MW-36 (A)	7/22/2004							2 U	
MW-37(A)	MW-37 (A)	10/17/2003	0.05 U				0.01 U		21.5	
MW-37(A)	MW-37 (A)	10/17/2003							11.1	
MW-38(A)	MW-38(A)	10/21/2003	0.05 U				0.01 U		2 U	
MW-38(A)	MW-38(A)	10/21/2003							0.05 U	
MW-38(A)	MW-38 (A)	1/14/2004	0.05 U				0.01 U		2 U B	

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Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	1/14/2004							0.121	
MW-38(A)	MW-38 (A)	4/14/2004	0.05 U				0.01 U		0.5 J	
MW-38(A)	MW-38 (A)	4/14/2004							0.05 U	
MW-38(A)	MW-38 (A)	7/22/2004	0.05 U				0.01 U		0.48 J	
MW-38(A)	MW-38 (A)	7/22/2004							0.05 U	
MW-39(A)	MW-39 (A)	10/16/2003	2.24				0.01 U		17.7	
MW-39(A)	MW-39 (A)	10/16/2003							22.8	
MW-39(A)	MW-39 (A)	1/16/2004	1.04				0.01 U		23.4	
MW-39(A)	MW-39 (A)	1/16/2004							17.3	
MW-39(A)	MW-39 (A)	4/14/2004	0.633				0.01 U		18.7	
MW-39(A)	MW-39 (A)	4/14/2004							4.14	
MW-39(A)	MW-39 (A)	7/21/2004	1.67				0.01 U		13.8	
MW-39(A)	MW-39 (A)	7/21/2004							10.7	
MW-39(A)	Trip Blank	7/21/2004							2 U	
MW-39(A)	Trip Blank	7/22/2004							2 U	
MW-40(A)	MW-40 (A)	10/17/2003	0.618				0.01 U		82.5	
MW-40(A)	MW-40 (A)	10/17/2003							43.8	
MW-40(A)	MW-40(A)	1/20/2004	0.72				0.02 U		1220	
MW-40(A)	MW-40(A)	1/20/2004							682	
MW-40(A)	MW-40(A)	4/16/2004	1.16				0.04 U		1500	
MW-40(A)	MW-40(A)	4/16/2004							850	
MW-41(A)	MW-41(A)	10/14/2003	4.97				0.01 U		105	
MW-41(A)	MW-41(A)	10/14/2003							82.3	
MW-42(A)	MW-42 (A)	10/15/2003	2.56				0.01 U		190	
MW-42(A)	MW-42 (A)	10/15/2003							141	
MW-43(A)	MW-43(A)	10/13/2003	0.05 U				0.01 U		2 U	
MW-43(A)	MW-43(A)	10/13/2003							0.05 U	
MW-43(A)	MW-43 (A)	1/12/2004	0.05 U				0.01 U		2 U	
MW-43(A)	MW-43 (A)	1/12/2004							0.05 U	
MW-43(A)	MW-43 (A)	4/13/2004	0.05 U				0.01 U		2 U	
MW-43(A)	MW-43 (A)	4/13/2004							0.05 U	
MW-43(A)	MW-43 (A)	7/21/2004	0.05 U				0.01 U		0.0605	
MW-43(A)	MW-43 (A)	7/21/2004							2 U	
MW-44(A)	MW-44 (A)	10/17/2003	0.362				0.01 U		1050	
MW-44(A)	MW-44 (A)	10/17/2003							696	
MW-45(A)	MW-45 (A)	10/16/2003	0.05 U				0.01 U		1.11 J	

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Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-45(A)	MW-45 (A)	10/16/2003							0.0896	
MW-45(A)	MW-45 (A)	1/16/2004	0.05 U				0.01 U		2 U	
MW-45(A)	MW-45 (A)	1/16/2004							0.05 U	
MW-45(A)	MW-45 (A)	4/14/2004	0.05 U				0.01 U		2 U	
MW-45(A)	MW-45 (A)	4/14/2004							0.0798	
MW-45(A)	MW-45 (A)	7/21/2004	0.05 U				0.01 U		2 U	
MW-45(A)	MW-45 (A)	7/21/2004							0.225 U	
MW-46(A)	MW-46(A)	10/14/2003	0.05 U				0.01 U		2 U	
MW-46(A)	MW-46(A)	10/14/2003							0.05 U	
MW-46(A)	MW-46(A)	1/14/2004	0.05 U				0.01 U		0.05 U	
MW-46(A)	MW-46(A)	1/14/2004							2 U	
MW-46(A)	MW-46 (A)	4/12/2004	0.05 U				0.01 U		2 U	
MW-46(A)	MW-46 (A)	4/12/2004							0.0526	
MW-46(A)	MW-46 (A)	7/21/2004	0.05 U				0.01 U		0.05 U	
MW-46(A)	MW-46 (A)	7/21/2004							2 U	
MW-47(A)	MW-47(A)	10/13/2003	0.05 U				0.01 U		2 U	
MW-47(A)	MW-47(A)	10/13/2003							0.05 U	
MW-47(A)	MW-47 (A)	1/14/2004	0.05 U				0.01 U		0.0783	
MW-47(A)	MW-47 (A)	1/14/2004							2 U	
MW-47(A)	MW-47 (A)	4/12/2004	0.05 U				0.01 U		2 U	
MW-47(A)	MW-47 (A)	4/12/2004							0.05 U	
MW-47(A)	MW-47 (A)	7/21/2004	0.05 U				0.01 U		0.05 U	
MW-47(A)	MW-47 (A)	7/21/2004							2 U	
MW-48(A)	MW-48(A)	10/14/2003	0.204				0.01 U		0.76 J	
MW-48(A)	MW-48(A)	10/14/2003							0.538	
MW-48(A)	MW-48 (A)	1/14/2004	0.0763				0.01 U		0.397	
MW-48(A)	MW-48 (A)	1/14/2004							2 U	
MW-48(A)	MW-48 (A)	4/12/2004	0.0569				0.01 U		0.244	
MW-48(A)	MW-48 (A)	4/12/2004							2 U	
MW-48(A)	MW-48 (A)	7/21/2004	0.0602				0.014		2 U	
MW-48(A)	MW-48 (A)	7/21/2004							0.457	
R-1(M)	R-1(M)	10/22/2003	0.05 U				0.01 U		2 U B	
R-1(M)	R-1(M)	10/22/2003							0.0972	
TW-100(C)	SB100(C)W	8/22/2002	0.05 U				0.01 U		0.5 U	
TW-100(C)	SB100(C)W	8/22/2002							0.05 U	
TW-103(C)	SB103(C)W	8/22/2002							0.5 U	
TW-104(C)	SB104(C)W	8/22/2002							0.5 U	

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Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-200(C)	SB200(C)W	8/22/2002	0.05 U				0.01 U		0.5 U	
TW-200(C)	SB200(C)W	8/22/2002							0.05 U	
TW-201(C)	SB201(C)W	8/22/2002	0.05 U				0.01 U		0.5 U	
TW-201(C)	SB201(C)W	8/22/2002							0.05 U	
TW-202(C)	SB202(C)W	8/22/2002	0.255				0.01 U		0.5 U	
TW-202(C)	SB202(C)W	8/22/2002							0.2 U	
TW-203(C)	SB203(C)W	8/22/2002	0.05 U				0.01 U		0.5 U	
TW-203(C)	SB203(C)W	8/22/2002							0.3 U	
TW-204(C)	SB204(C)W	8/22/2002	0.05 U				0.01 U		0.5 U	
TW-204(C)	SB204(C)W	8/22/2002							0.05 U	
TW-204(C)	SB204(C)W2	8/22/2002	0.05 U				0.01 U		0.5 U	
TW-204(C)	SB204(C)W2	8/22/2002							0.05 U	
TW-304(D)	SB-304-D-9.0	8/19/2002	5 U				0.01 U		6.27	
TW-304(D)	SB-304-D-9.0 DUP	8/19/2002	5 U				0.01 U		5.37	
TW-305(D)	SB-305-D-9.0	8/19/2002	17.2				0.5 U		447	
TW-305(D)	SB-305-D-9.0	8/19/2002							220	
TW-306(D)	SB-306-D-9.0	8/19/2002	1.59				0.01 U		3.49	
TW-307(D)	SB-307-D-9.0	8/19/2002	5 U				0.01 U		68.5	
TW-309(D)	SB-309-D-9.0	8/19/2002	0.05 U				0.01 U		0.47 U	
TW-309(D)	SB-309-D-9.0	8/19/2002							0.066	
TW-311(D)	SB-311-D-10.0	8/19/2002	0.05 U				0.01 U		0.901	
TW-312(D)	SB-312-D-10.0	8/19/2002	0.05 U				0.01 U		2 U	
TW-312(D)	SB-312-D-10.0	8/19/2002							0.05 U	
TW-313(D)	TW-313-D-22.0	8/20/2002	0.05 U				0.01 U		58.7	
TW-314(D)	TW-314-D-22.0	8/20/2002	0.05 U				0.01 U		13.3	
TW-318(D)	TW-318-D-22.0	8/20/2002	0.05 U				0.01 U		0.15 U	
TW-318(D)	TW-318-D-22.0	8/20/2002							0.25	
TW-319(D)	SB-319-D-14.0	8/19/2002	0.05 U				0.01 U		0.05 U	
TW-400(F)	TW-400(F)	8/22/2002	0.05 U				0.01 U		0.05 U	
TW-600(N)	TW-600(N)	9/13/2002	0.0613				0.25 U		232	
TW-600(N)	TW-600(N)	9/13/2002							175	
TW-601(N)	TW-601(N)	9/13/2002	0.0613				0.01 U		94.6	
TW-601(N)	TW-601(N)	9/13/2002							73.2	
TW-602(N)	BT-602(N)	9/13/2002	0.05 U				0.01 U		2 U	
TW-602(N)	BT-602(N)	9/13/2002							0.392	
TW-602(N)	TW-602(N)	9/13/2002	0.05 U				0.01 U		2 U	
TW-602(N)	TW-602(N)	9/13/2002							1.51	
TW-603(N)	TW-603(N)	9/13/2002	0.0566				0.01 U		2 U	
TW-603(N)	TW-603(N)	9/13/2002							9.92	
TW-608(N)	TW-608 (N)	9/13/2002	0.05 U				0.01 U		2 U	

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Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002							0.05 U	
TW-612(N)	TW-612(N)	9/12/2002	1.3				0.05 U		100 U	
TW-612(N)	TW-612(N)	9/12/2002							22.9	
TW-616(N)	TW-616(N)	9/12/2002	0.05 U				0.01 U		2 U	
TW-616(N)	TW-616(N)	9/12/2002							0.339	
TW-619(N)	TW-619(N)	9/12/2002	0.0906				0.01 U		34	
TW-619(N)	TW-619(N)	9/12/2002							28	
TW-623(N)	TW-623(N)	9/12/2002	0.353				0.01 U		21.6	
TW-623(N)	TW-623(N)	9/12/2002							12.3	
TW-624(N)	TW-624(N)	9/12/2002	5 U	5 U	10 U	10 U	5 U	5 U	55.9	5 U
TW-624(N)	TW-624(N)	9/12/2002							5 U	
TW-625(N)	BT-625(N)	9/12/2002	0.05 U				0.01 U		0.05 U	
TW-625(N)	TW-625(N)	9/12/2002	0.05 U				0.01 U		0.05 U	
TW-700(P)	TW-700(P)	8/21/2002	1 U J				1 U J		459	
TW-700(P)	TW-700(P)	8/21/2002							41 J	
TW-701(P)	TW-701(P)	8/20/2002							236	
TW-702(P)	TW-702(P)	8/21/2002	0.05 U J				0.01 U J		0.5 U	
TW-702(P)	TW-702(P)	8/21/2002							0.05 U J	
TW-703(P)	TW-703(P)	8/21/2002							4.24	
TW-704(P)	TW-704(P)	8/21/2002							3.23	
TW-705(P)	TW-705(P)	8/20/2002	0.0571 U J				0.0114 U J		0.0571 U J	
TW-706(P)	TW-706(P)	8/21/2002							94.3	
TW-707(P)	TW-707(P)	8/21/2002							0.5 U	
TW-708(P)	BT-708(P)	8/20/2002	2 U J				0.01 U J		6.42 JB	
TW-708(P)	BT-708(P)	8/20/2002							10.1	
TW-708(P)	TW-708(P)	8/20/2002	2.5 U J				2.5 U J		20 U	
TW-708(P)	TW-708(P)	8/20/2002							6.44 J	
TW-709(P)	TW-709(P)	8/21/2002							0.5 U	
TW-710(P)	TW-710(P)	8/21/2002	0.05 U J				0.01 U J		0.5 U	
TW-710(P)	TW-710(P)	8/21/2002							0.05 U J	
TW-711(P)	BT-711(P)	8/21/2002							0.5 U	
TW-711(P)	TW-711(P)	8/21/2002							0.5 U	
TW-712(P)	TW-712(P)	8/21/2002	0.05 U J				0.01 U J		0.5 U	
TW-712(P)	TW-712(P)	8/21/2002							0.05 U J	
TW-714(P)	TW-714(P)	8/21/2002	2.3 J				2.5 U J		965	
TW-714(P)	TW-714(P)	8/21/2002							258 J	
TW-716(P)	TW-716(P)	8/20/2002	0.05 U J				0.01 U J		0.5 U	
TW-716(P)	TW-716(P)	8/20/2002							0.05 U J	
TW-717(P)	TW-717(P)	8/20/2002	0.133 J				0.01 U J		0.5 U	
TW-717(P)	TW-717(P)	8/20/2002							0.2 U J	
TW-718(P)	TW-718(P)	8/21/2002	0.05 U J				0.01 U J		2 U	
TW-718(P)	TW-718(P)	8/21/2002							0.05 U J	

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Locator ID	Sample ID	Sample Date	Fluorene	Hexachlorobenzene	Hexachlorocyclopentadiene	Hexachloroethane	Indeno(1,2,3-cd)pyrene	Isophorone	Naphthalene	Nitrobenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-719(P)	BT-719(P)	8/23/2002	0.05 U				0.01 U		2 U	
TW-719(P)	BT-719(P)	8/23/2002							0.5 U	
TW-719(P)	TW-719(P)	8/23/2002	0.05 U				0.01 U		0.25 J	
TW-719(P)	TW-719(P)	8/23/2002							0.5 U	
TW-720(P)	TW-720(P)	8/23/2002	5 U				0.05 U		744	
TW-720(P)	TW-720(P)	8/23/2002							423	
TW-900(S)	SB-900(TW)	8/26/2002	0.05 U				0.01 U		1 U	
TW-901(S)	SB-901(TW)	8/26/2002	0.57 J				1 U		12.5	
TW-901(S)	SB-901(TW)	8/26/2002							19.9	
TW-902(S)	SB-902(TW)	8/26/2002	2.03				0.5 U		11.2	
TW-903(S)	SB-903(TW)	8/26/2002	2.68				0.2 U		2 U	
TW-903(S)	SB-903(TW)	8/26/2002							3.1	
TW-904(S)	SB-904(TW)	8/26/2002	1.18				0.1 U		2 U	
TW-904(S)	SB-904(TW)	8/26/2002							31.6	
TW-905(S)	SB-905(TW)	8/26/2002							18.4 J	
TW-906(S)	SB-906(TW)	8/27/2002	0.232				0.01 U		2.29	
TW-906(S)	SB-906(TW)	8/27/2002							0.745	
TW-908(S)	SB-908(TW)	8/27/2002	0.05 U				0.01 U		2 U	
TW-908(S)	SB-908(TW)	8/27/2002							0.1 U	
TW-909(S)	SB-909(TW)	8/27/2002	0.05 U				0.01 U		1.1 U	
TW-910(S)	SB-910(TW)	8/26/2002	1.08				0.01 U		0.61	
TW-911(S)	SB-911(TW)	8/27/2002	0.377 J				0.1 U		2 U	
TW-911(S)	SB-911(TW)	8/27/2002							0.5 U	

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Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1-082302	8/23/2002			0.05 U		0.05 U
MW-1(F)	MW-1-082302	8/23/2002					
MW-1(F)	MW-1(F)	10/22/2003			0.05 U		0.05 U
MW-1(F)	MW-1(F)	10/22/2003					
MW-1(F)	MW-1 (F)	1/15/2004			0.0523		0.05 U
MW-1(F)	MW-1 (F)	1/15/2004					
MW-1(F)	MW-1(F)	4/15/2004			0.05 U		0.05 U
MW-1(F)	MW-1(F)	4/15/2004					
MW-1(F)	MW-1 (F)	7/20/2004			0.05 U		0.05 U
MW-1(F)	MW-1 (F)	7/20/2004					
MW-2(M)	MW-2(M)	6/19/2003			1.45		0.5 U
MW-2(M)	MW-2(M)	6/19/2003					
MW-2(M)	MW-2 (M)	10/15/2003			1.07		0.051
MW-2(M)	MW-2 (M)	10/15/2003					
MW-2(M)	MW-2 (M)	1/12/2004			0.669		0.1 U
MW-2(M)	MW-2 (M)	1/12/2004					
MW-2(M)	MW-2(M)	4/14/2004			0.748		0.5 U
MW-2(M)	MW-2(M)	4/14/2004					
MW-2(M)	MW-2 (M)	7/22/2004			1.55		0.5 U
MW-2(M)	MW-2 (M)	7/22/2004					
MW-6(M)	MW-6(M)	6/19/2003			0.1 U		0.1 U
MW-6(M)	MW-6(M)	6/19/2003					
MW-6(M)	MW-6(M)	10/22/2003			0.05 U		0.05 U
MW-6(M)	MW-6(M)	10/22/2003					
MW-6(M)	MW-6 (M)	1/12/2004			0.05 U		0.05 U
MW-6(M)	MW-6 (M)	1/12/2004					
MW-6(M)	MW-6 (M)	4/13/2004			0.05 U		0.05 U
MW-6(M)	MW-6 (M)	4/13/2004					
MW-6(M)	MW-6 (M)	7/19/2004			0.05 U		0.05 U
MW-6(M)	MW-6 (M)	7/19/2004					
MW-7(M)	BM-7(M)	6/19/2003			0.1 U		0.1 U
MW-7(M)	BM-7(M)	6/19/2003					
MW-7(M)	MW-7(M)	6/19/2003			0.1 U		0.1 U
MW-7(M)	MW-7(M)	6/19/2003					
MW-7(M)	MW-7(M)	10/13/2003			0.05 U		0.05 U
MW-7(M)	MW-7(M)	10/13/2003					
MW-7(M)	MW-7 (M)	1/12/2004			0.05 U		0.05 U
MW-7(M)	MW-7 (M)	1/12/2004					
MW-7(M)	MW-7 (M)	4/12/2004			0.05 U		0.05 U
MW-7(M)	MW-7 (M)	4/12/2004					

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Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-7(M)	MW-7 (M)	7/19/2004			0.05 U		0.05 U
MW-7(M)	MW-7 (M)	7/19/2004					
MW-10(M)	MW-10(M)	6/19/2003			0.5 U		0.5 U
MW-10(M)	MW-10(M)	6/19/2003					
MW-10(M)	MW-10 (M)	10/15/2003			0.104		0.0589
MW-10(M)	MW-10 (M)	10/15/2003					
MW-10(M)	MW-10 (M)	1/13/2004			0.05 U		0.05 U
MW-10(M)	MW-10 (M)	1/13/2004					
MW-10(M)	MW-10 (M)	4/13/2004			0.1 U		0.1 U
MW-10(M)	MW-10 (M)	4/13/2004					
MW-10(M)	MW-10 (M)	7/19/2004			0.05 U		0.05 U
MW-10(M)	MW-10 (M)	7/19/2004					
MW-11(M)	MW-11(M)	6/19/2003			0.1 U		0.1 U
MW-11(M)	MW-11(M)	6/19/2003					
MW-11(M)	MW-11 (M)	10/15/2003			0.05 U		0.05 U
MW-11(M)	MW-11 (M)	10/15/2003					
MW-11(M)	MW-11 (M)	1/13/2004			0.05 U		0.05 U
MW-11(M)	MW-11 (M)	1/13/2004					
MW-11(M)	MW-11 (M)	4/13/2004			0.05 U		0.05 U
MW-11(M)	MW-11 (M)	4/13/2004					
MW-11(M)	MW-11 (M)	7/21/2004			0.05 U		0.05 U
MW-11(M)	MW-11 (M)	7/21/2004					
MW-12(A)	MW-12(A)	10/22/2003			0.05 U		0.05 U
MW-12(A)	MW-12(A)	10/22/2003					
MW-12(A)	MW-12 (A)	1/15/2004			0.05 U		0.05 U
MW-12(A)	MW-12 (A)	1/15/2004					
MW-12(A)	MW-12(A)	4/16/2004			0.05 U		0.05 U
MW-12(A)	MW-12(A)	4/16/2004					
MW-12(A)	MW-12 (A)	7/22/2004			0.05 U		0.05 U
MW-12(A)	MW-12 (A)	7/22/2004					
MW-13(A)	MW-13(A)	10/22/2003			0.05 U		0.05 U
MW-13(A)	MW-13(A)	10/22/2003					
MW-13(A)	MW-13 (A)	1/15/2004			0.1 U		0.1 U
MW-13(A)	MW-13 (A)	1/15/2004					
MW-13(A)	MW-13(A)	4/16/2004			0.1 U		0.1 U
MW-13(A)	MW-13(A)	4/16/2004					
MW-13(A)	MW-13 (A)	7/22/2004			0.5 U		0.5 U
MW-13(A)	MW-13 (A)	7/22/2004					

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Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-14(A)	MW-14(A)	10/21/2003			0.05 U		0.05 U
MW-14(A)	MW-14(A)	10/21/2003					
MW-14(A)	MW-14 (A)	1/15/2004			0.05 U		0.05 U
MW-14(A)	MW-14 (A)	1/15/2004					
MW-14(A)	MW-14(A)	4/16/2004			0.05 U		0.05 U
MW-14(A)	MW-14(A)	4/16/2004					
MW-14(A)	MW-14 (A)	7/23/2004			0.05 U		0.05 U
MW-14(A)	MW-14 (A)	7/23/2004					
MW-15(A)	MW-15(A)	10/20/2003			0.106		0.05 U
MW-15(A)	MW-15(A)	10/20/2003					
MW-16(A)	MW-16(A)	10/20/2003			0.05 U		0.05 U
MW-16(A)	MW-16(A)	10/20/2003					
MW-16(A)	MW-16(A)	1/19/2004			0.05 U		0.05 U
MW-16(A)	MW-16(A)	1/19/2004					
MW-16(A)	MW-16(A)	4/15/2004			0.05 U		0.05 U
MW-16(A)	MW-16(A)	4/15/2004					
MW-16(A)	MW-16 (A)	7/22/2004			0.05 U		0.05 U
MW-16(A)	MW-16 (A)	7/22/2004					
MW-17 (A)	BM-17 (A)	7/22/2004			0.05 U		0.05 U
MW-17 (A)	BM-17 (A)	7/22/2004					
MW-17(A)	MW-17 (A)	10/17/2003			0.05 U		0.05 U
MW-17(A)	MW-17 (A)	10/17/2003					
MW-17(A)	BM-17(A)	1/19/2004			0.05 U		0.05 U
MW-17(A)	BM-17(A)	1/19/2004					
MW-17(A)	MW-17(A)	1/19/2004			0.05 U		0.05 U
MW-17(A)	MW-17(A)	1/19/2004					
MW-17(A)	MW-17(A)	4/15/2004			0.05 U		0.05 U
MW-17(A)	MW-17(A)	4/15/2004					
MW-17(A)	MW-17 (A)	7/22/2004			0.05 U		0.05 U
MW-17(A)	MW-17 (A)	7/22/2004					
MW-18(A)	MW-18(A)	10/21/2003			0.05 U		0.05 U
MW-18(A)	MW-18(A)	10/21/2003					
MW-18(A)	MW-18(A)	1/19/2004			0.05 U		0.05 U
MW-18(A)	MW-18(A)	1/19/2004					
MW-18(A)	MW-18(A)	4/15/2004			0.05 U		0.05 U
MW-18(A)	MW-18(A)	4/15/2004					
MW-18(A)	MW-18 (A)	7/21/2004			0.05 U		0.05 U
MW-18(A)	MW-18 (A)	7/21/2004					

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Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-19(A)	BM-19(A)	10/20/2003			0.05 U		0.05 U
MW-19(A)	BM-19(A)	10/20/2003					
MW-19(A)	MW-19(A)	10/20/2003			0.05 U		0.05 U
MW-19(A)	MW-19(A)	10/20/2003					
MW-19(A)	MW-19 (A)	1/13/2004			0.05 U		0.05 U
MW-19(A)	MW-19 (A)	1/13/2004					
MW-19(A)	MW-19(A)	4/15/2004			0.05 U		0.05 U
MW-19(A)	MW-19(A)	4/15/2004					
MW-19(A)	BM-19 (A)	7/20/2004			0.05 U		0.05 U
MW-19(A)	BM-19 (A)	7/20/2004					
MW-19(A)	MW-19 (A)	7/20/2004			0.05 U		0.05 U
MW-19(A)	MW-19 (A)	7/20/2004					
MW-20(A)	MW-20(A)	10/20/2003			0.0697		0.05 U
MW-20(A)	MW-20(A)	10/20/2003					
MW-20(A)	MW-20 (A)	1/13/2004			0.0981		0.05 U
MW-20(A)	MW-20 (A)	1/13/2004					
MW-20(A)	MW-20(A)	4/15/2004			0.1 U		0.1 U
MW-20(A)	MW-20(A)	4/15/2004					
MW-20(A)	MW-20 (A)	7/20/2004			0.128		0.1 U
MW-20(A)	MW-20 (A)	7/20/2004					
MW-21(A)	MW-21(A)	10/20/2003			0.09 U		0.05 U
MW-21(A)	MW-21(A)	10/20/2003					
MW-21(A)	BM-21 (A)	1/13/2004			0.0902		0.05 U
MW-21(A)	BM-21 (A)	1/13/2004					
MW-21(A)	MW-21 (A)	1/13/2004			0.05 U		0.05 U
MW-21(A)	MW-21 (A)	1/13/2004					
MW-21(A)	MW-21(A)	4/16/2004			0.5 U		0.1 U
MW-21(A)	MW-21(A)	4/16/2004					
MW-21(A)	MW-21 (A)	7/20/2004			0.108		0.05 U
MW-21(A)	MW-21 (A)	7/20/2004					
MW-22(A)	MW-22 (A)	10/16/2003			0.05 U		0.05 U
MW-22(A)	MW-22 (A)	10/16/2003					
MW-22(A)	MW-22(A)	1/19/2004			0.05 U		0.05 U
MW-22(A)	MW-22(A)	1/19/2004					
MW-22(A)	MW-22(A)	4/15/2004			0.05 U		0.05 U
MW-22(A)	MW-22(A)	4/15/2004					
MW-22(A)	MW-22 (A)	7/20/2004			0.05 U		0.05 U
MW-22(A)	MW-22 (A)	7/20/2004					
MW-23(A)	MW-23(A)	10/20/2003			0.05 U		0.05 U

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Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-23(A)	MW-23(A)	10/20/2003					
MW-23(A)	MW-23 (A)	1/15/2004			0.05 U		0.05 U
MW-23(A)	MW-23 (A)	1/15/2004					
MW-23(A)	BM-23(A)	4/15/2004			0.05 U		0.05 U
MW-23(A)	BM-23(A)	4/15/2004					
MW-23(A)	MW-23(A)	4/15/2004			0.05 U		0.05 U
MW-23(A)	MW-23(A)	4/15/2004					
MW-23(A)	MW-23 (A)	7/20/2004			0.05 U		0.05 U
MW-23(A)	MW-23 (A)	7/20/2004					
MW-24(A)	MW-24(A)	10/21/2003			0.05 U		0.05 U
MW-24(A)	MW-24(A)	10/21/2003					
MW-24(A)	MW-24 (A)	1/15/2004			0.05 U		0.05 U
MW-24(A)	MW-24 (A)	1/15/2004					
MW-24(A)	MW-24(A)	4/14/2004			0.05 U		0.05 U
MW-24(A)	MW-24(A)	4/14/2004					
MW-24(A)	MW-24 (A)	7/22/2004			0.05 U		0.05 U
MW-24(A)	MW-24 (A)	7/22/2004					
MW-26(A)	MW-26 (A)	10/17/2003			5 U		0.05 U
MW-26(A)	MW-26 (A)	10/17/2003					
MW-26(A)	MW-26 (A)	1/15/2004			0.05 U		0.05 U
MW-26(A)	MW-26 (A)	1/15/2004					
MW-26(A)	MW-26(A)	4/14/2004			0.05 U		0.05 U
MW-26(A)	MW-26(A)	4/14/2004					
MW-26(A)	MW-26 (A)	7/22/2004			2.5 U		2.5 U
MW-26(A)	MW-26 (A)	7/22/2004					
MW-27(A)	MW-27(A)	10/21/2003			0.05 U		0.05 U
MW-27(A)	MW-27(A)	10/21/2003					
MW-27(A)	MW-27 (A)	1/14/2004			0.05 U		0.05 U
MW-27(A)	MW-27 (A)	1/14/2004					
MW-27(A)	MW-27 (A)	4/14/2004			0.05 U		0.05 U
MW-27(A)	MW-27 (A)	4/14/2004					
MW-27(A)	MW-27 (A)	7/22/2004			0.05 U		0.05 U
MW-27(A)	MW-27 (A)	7/22/2004					
MW-28(A)	MW-28 (A)	10/17/2003			5 U		0.05 U
MW-28(A)	MW-28 (A)	10/17/2003					
MW-28(A)	MW-28(A)	1/19/2004			0.07		0.05 U
MW-28(A)	MW-28(A)	1/19/2004					
MW-28(A)	MW-28(A)	4/14/2004			0.0564		0.05 U
MW-28(A)	MW-28(A)	4/14/2004					

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Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-28(A)	MW-28 (A)	7/23/2004			0.5 U		0.5 U
MW-28(A)	MW-28 (A)	7/23/2004					
MW-29(A)	MW-29(A)	10/21/2003			0.0638		0.05 U
MW-29(A)	MW-29(A)	10/21/2003					
MW-29(A)	MW-29(A)	1/19/2004			0.0802		0.05 U
MW-29(A)	MW-29(A)	1/19/2004					
MW-29(A)	MW-29(A)	4/16/2004			0.1 U		0.1 U
MW-29(A)	MW-29(A)	4/16/2004					
MW-29(A)	MW-29 (A)	7/22/2004			2.5 U		2.5 U
MW-29(A)	MW-29 (A)	7/22/2004					
MW-30(A)	MW-30 (A)	10/16/2003			0.05 U		0.05 U
MW-30(A)	MW-30 (A)	10/16/2003					
MW-30(A)	MW-30 (A)	1/16/2004			0.05 U		0.05 U
MW-30(A)	MW-30 (A)	1/16/2004					
MW-30(A)	MW-30 (A)	4/13/2004			0.05 U		0.05 U
MW-30(A)	MW-30 (A)	4/13/2004					
MW-30(A)	MW-30 (A)	7/20/2004			0.0513		0.05 U
MW-30(A)	MW-30 (A)	7/20/2004					
MW-31(A)	BM-31 (A)	10/16/2003			0.05 U		0.05 U
MW-31(A)	BM-31 (A)	10/16/2003					
MW-31(A)	MW-31 (A)	10/16/2003			0.05 U		0.05 U
MW-31(A)	MW-31 (A)	10/16/2003					
MW-31(A)	MW-31 (A)	1/12/2004			0.05 U		0.05 U
MW-31(A)	MW-31 (A)	1/12/2004					
MW-31(A)	BM-31 (A)	4/13/2004			0.05 U		0.05 U
MW-31(A)	BM-31 (A)	4/13/2004					
MW-31(A)	MW-31 (A)	4/13/2004			0.1 U		0.1 U
MW-31(A)	MW-31 (A)	4/13/2004					
MW-31(A)	MW-31 (A)	7/20/2004			0.05 U		0.05 U
MW-31(A)	MW-31 (A)	7/20/2004					
MW-32(A)	MW-32(A)	10/14/2003			0.05 U		0.05 U
MW-32(A)	MW-32(A)	10/14/2003					
MW-32(A)	MW-32 (A)	1/12/2004			0.05 U		0.05 U
MW-32(A)	MW-32 (A)	1/12/2004					
MW-32(A)	MW-32 (A)	4/13/2004			0.05 U		0.05 U
MW-32(A)	MW-32 (A)	4/13/2004					
MW-32(A)	MW-32 (A)	7/19/2004			0.05 U		0.05 U
MW-32(A)	MW-32 (A)	7/19/2004					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-33(A)	MW-33(A)	10/14/2003			0.05 U		0.05 U
MW-33(A)	MW-33(A)	10/14/2003					
MW-33(A)	MW-33 (A)	1/12/2004			0.05 U		0.05 U
MW-33(A)	MW-33 (A)	1/12/2004					
MW-33(A)	MW-33 (A)	4/13/2004			0.05 U		0.05 U
MW-33(A)	MW-33 (A)	4/13/2004					
MW-33(A)	MW-33 (A)	7/19/2004			0.05 U		0.05 U
MW-33(A)	MW-33 (A)	7/19/2004					
MW-34(A)	MW-34(A)	10/14/2003			0.05 U		0.05 U
MW-34(A)	MW-34(A)	10/14/2003					
MW-34(A)	MW-34 (A)	1/13/2004			0.05 U		0.05 U
MW-34(A)	MW-34 (A)	1/13/2004					
MW-34(A)	MW-34 (A)	4/14/2004			0.05 U		0.05 U
MW-34(A)	MW-34 (A)	4/14/2004					
MW-34(A)	MW-34 (A)	7/20/2004			0.05 U		0.05 U
MW-34(A)	MW-34 (A)	7/20/2004					
MW-35(A)	MW-35 (A)	10/16/2003			0.05 U		0.05 U
MW-35(A)	MW-35 (A)	10/16/2003					
MW-35(A)	MW-35 (A)	1/16/2004			0.05 U		0.05 U
MW-35(A)	MW-35 (A)	1/16/2004					
MW-35(A)	MW-35 (A)	4/13/2004			0.05 U		0.05 U
MW-35(A)	MW-35 (A)	4/13/2004					
MW-35(A)	MW-35 (A)	7/20/2004			0.05 U		0.05 U
MW-35(A)	MW-35 (A)	7/20/2004					
MW-36(A)	MW-36(A)	10/21/2003			0.05 U		0.05 U
MW-36(A)	MW-36(A)	10/21/2003					
MW-36(A)	MW-36 (A)	1/14/2004			0.05 U		0.05 U
MW-36(A)	MW-36 (A)	1/14/2004					
MW-36(A)	MW-36 (A)	4/14/2004			0.05 U		0.05 U
MW-36(A)	MW-36 (A)	4/14/2004					
MW-36(A)	MW-36 (A)	7/22/2004			0.05 U		0.05 U
MW-36(A)	MW-36 (A)	7/22/2004			0.05 U		0.05 U
MW-36(A)	MW-36 (A)	7/22/2004					
MW-37(A)	MW-37 (A)	10/17/2003			0.05 U		0.05 U
MW-37(A)	MW-37 (A)	10/17/2003					
MW-38(A)	MW-38(A)	10/21/2003			0.05 U		0.05 U
MW-38(A)	MW-38(A)	10/21/2003					
MW-38(A)	MW-38 (A)	1/14/2004			0.05 U		0.05 U

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Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	1/14/2004					
MW-38(A)	MW-38 (A)	4/14/2004			0.05 U		0.05 U
MW-38(A)	MW-38 (A)	4/14/2004					
MW-38(A)	MW-38 (A)	7/22/2004			0.05 U		0.05 U
MW-38(A)	MW-38 (A)	7/22/2004					
MW-39(A)	MW-39 (A)	10/16/2003			0.806		0.05 U
MW-39(A)	MW-39 (A)	10/16/2003					
MW-39(A)	MW-39 (A)	1/16/2004			0.629		0.05 U
MW-39(A)	MW-39 (A)	1/16/2004					
MW-39(A)	MW-39 (A)	4/14/2004			0.357		0.05 U
MW-39(A)	MW-39 (A)	4/14/2004					
MW-39(A)	MW-39 (A)	7/21/2004			0.631		0.05 U
MW-39(A)	MW-39 (A)	7/21/2004					
MW-39(A)	Trip Blank	7/21/2004					
MW-39(A)	Trip Blank	7/22/2004					
MW-40(A)	MW-40 (A)	10/17/2003			0.317		0.05 U
MW-40(A)	MW-40 (A)	10/17/2003					
MW-40(A)	MW-40(A)	1/20/2004			1.11		0.1 U
MW-40(A)	MW-40(A)	1/20/2004					
MW-40(A)	MW-40(A)	4/16/2004			2.13		0.2 U
MW-40(A)	MW-40(A)	4/16/2004					
MW-41(A)	MW-41(A)	10/14/2003			6.93		0.2
MW-41(A)	MW-41(A)	10/14/2003					
MW-42(A)	MW-42 (A)	10/15/2003			2.16		0.05 U
MW-42(A)	MW-42 (A)	10/15/2003					
MW-43(A)	MW-43(A)	10/13/2003			0.05 U		0.05 U
MW-43(A)	MW-43(A)	10/13/2003					
MW-43(A)	MW-43 (A)	1/12/2004			0.05 U		0.05 U
MW-43(A)	MW-43 (A)	1/12/2004					
MW-43(A)	MW-43 (A)	4/13/2004			0.05 U		0.05 U
MW-43(A)	MW-43 (A)	4/13/2004					
MW-43(A)	MW-43 (A)	7/21/2004			0.05 U		0.05 U
MW-43(A)	MW-43 (A)	7/21/2004					
MW-44(A)	MW-44 (A)	10/17/2003			0.44		0.05 U
MW-44(A)	MW-44 (A)	10/17/2003					
MW-45(A)	MW-45 (A)	10/16/2003			0.05 U		0.05 U

TABLE D-14

SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
MW-45(A)	MW-45 (A)	10/16/2003					
MW-45(A)	MW-45 (A)	1/16/2004			0.05 U		0.05 U
MW-45(A)	MW-45 (A)	1/16/2004					
MW-45(A)	MW-45 (A)	4/14/2004			0.05 U		0.05 U
MW-45(A)	MW-45 (A)	4/14/2004					
MW-45(A)	MW-45 (A)	7/21/2004			0.05 U		0.05 U
MW-45(A)	MW-45 (A)	7/21/2004					
MW-46(A)	MW-46(A)	10/14/2003			0.05 U		0.05 U
MW-46(A)	MW-46(A)	10/14/2003					
MW-46(A)	MW-46(A)	1/14/2004			0.05 U		0.05 U
MW-46(A)	MW-46(A)	1/14/2004					
MW-46(A)	MW-46 (A)	4/12/2004			0.05 U		0.05 U
MW-46(A)	MW-46 (A)	4/12/2004					
MW-46(A)	MW-46 (A)	7/21/2004			0.05 U		0.05 U
MW-46(A)	MW-46 (A)	7/21/2004					
MW-47(A)	MW-47(A)	10/13/2003			0.05 U		0.05 U
MW-47(A)	MW-47(A)	10/13/2003					
MW-47(A)	MW-47 (A)	1/14/2004			0.05 U		0.05 U
MW-47(A)	MW-47 (A)	1/14/2004					
MW-47(A)	MW-47 (A)	4/12/2004			0.05 U		0.05 U
MW-47(A)	MW-47 (A)	4/12/2004					
MW-47(A)	MW-47 (A)	7/21/2004			0.05 U		0.05 U
MW-47(A)	MW-47 (A)	7/21/2004					
MW-48(A)	MW-48(A)	10/14/2003			0.345		0.0812
MW-48(A)	MW-48(A)	10/14/2003					
MW-48(A)	MW-48 (A)	1/14/2004			0.131		0.05 U
MW-48(A)	MW-48 (A)	1/14/2004					
MW-48(A)	MW-48 (A)	4/12/2004			0.101		0.0729
MW-48(A)	MW-48 (A)	4/12/2004					
MW-48(A)	MW-48 (A)	7/21/2004			0.108		0.0883
MW-48(A)	MW-48 (A)	7/21/2004					
R-1(M)	R-1(M)	10/22/2003			0.05 U		0.05 U
R-1(M)	R-1(M)	10/22/2003					
TW-100(C)	SB100(C)W	8/22/2002			0.05 U		0.05 U
TW-100(C)	SB100(C)W	8/22/2002					
TW-103(C)	SB103(C)W	8/22/2002					
TW-104(C)	SB104(C)W	8/22/2002					

TABLE D-14

SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
TW-200(C)	SB200(C)W	8/22/2002			0.05 U		0.05 U
TW-200(C)	SB200(C)W	8/22/2002					
TW-201(C)	SB201(C)W	8/22/2002			0.05 U		0.05 U
TW-201(C)	SB201(C)W	8/22/2002					
TW-202(C)	SB202(C)W	8/22/2002			0.05 U		0.05 U
TW-202(C)	SB202(C)W	8/22/2002					
TW-203(C)	SB203(C)W	8/22/2002			0.05 U		0.05 U
TW-203(C)	SB203(C)W	8/22/2002					
TW-204(C)	SB204(C)W	8/22/2002			0.05 U		0.05 U
TW-204(C)	SB204(C)W	8/22/2002					
TW-204(C)	SB204(C)W2	8/22/2002			0.05 U		0.05 U
TW-204(C)	SB204(C)W2	8/22/2002					
TW-304(D)	SB-304-D-9.0	8/19/2002			0.06 U		0.05 U
TW-304(D)	SB-304-D-9.0 DUP	8/19/2002			0.05 U		0.05 U
TW-305(D)	SB-305-D-9.0	8/19/2002			39.9		2.5 U
TW-305(D)	SB-305-D-9.0	8/19/2002					
TW-306(D)	SB-306-D-9.0	8/19/2002			2.09		0.25 U
TW-307(D)	SB-307-D-9.0	8/19/2002			5 U		0.08 U
TW-309(D)	SB-309-D-9.0	8/19/2002			0.05 U		0.05 U
TW-309(D)	SB-309-D-9.0	8/19/2002					
TW-311(D)	SB-311-D-10.0	8/19/2002			0.05 U		0.05 U
TW-312(D)	SB-312-D-10.0	8/19/2002			0.05 U		0.05 U
TW-312(D)	SB-312-D-10.0	8/19/2002					
TW-313(D)	TW-313-D-22.0	8/20/2002			0.05 U		0.05 U
TW-314(D)	TW-314-D-22.0	8/20/2002			0.05 U		0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002			0.05 U		0.05 U
TW-318(D)	TW-318-D-22.0	8/20/2002					
TW-319(D)	SB-319-D-14.0	8/19/2002			0.05 U		0.05 U
TW-400(F)	TW-400(F)	8/22/2002			0.05 U		0.05 U
TW-600(N)	TW-600(N)	9/13/2002			0.05 U		0.25 U
TW-600(N)	TW-600(N)	9/13/2002					
TW-601(N)	TW-601(N)	9/13/2002			0.05 U		2.5 U
TW-601(N)	TW-601(N)	9/13/2002					
TW-602(N)	BT-602(N)	9/13/2002			0.05 U		0.05 U
TW-602(N)	BT-602(N)	9/13/2002					
TW-602(N)	TW-602(N)	9/13/2002			0.05 U		0.05 U
TW-602(N)	TW-602(N)	9/13/2002					
TW-603(N)	TW-603(N)	9/13/2002			0.0679		0.05 U
TW-603(N)	TW-603(N)	9/13/2002					
TW-608(N)	TW-608 (N)	9/13/2002			0.05 U		0.05 U

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
TW-608(N)	TW-608 (N)	9/13/2002					
TW-612(N)	TW-612(N)	9/12/2002			0.171		0.05 U
TW-612(N)	TW-612(N)	9/12/2002					
TW-616(N)	TW-616(N)	9/12/2002			0.05 U		0.05 U
TW-616(N)	TW-616(N)	9/12/2002					
TW-619(N)	TW-619(N)	9/12/2002			0.12		0.05 U
TW-619(N)	TW-619(N)	9/12/2002					
TW-623(N)	TW-623(N)	9/12/2002			0.874		0.05 U
TW-623(N)	TW-623(N)	9/12/2002					
TW-624(N)	TW-624(N)	9/12/2002	5 U	10 U	5 U	5 U	5 U
TW-624(N)	TW-624(N)	9/12/2002					
TW-625(N)	BT-625(N)	9/12/2002			0.05 U		0.05 U
TW-625(N)	TW-625(N)	9/12/2002			0.05 U		0.05 U
TW-700(P)	TW-700(P)	8/21/2002			1 U J		1 U J
TW-700(P)	TW-700(P)	8/21/2002					
TW-701(P)	TW-701(P)	8/20/2002					
TW-702(P)	TW-702(P)	8/21/2002			0.05 U J		0.05 U J
TW-702(P)	TW-702(P)	8/21/2002					
TW-703(P)	TW-703(P)	8/21/2002					
TW-704(P)	TW-704(P)	8/21/2002		25 U		25 U	
TW-705(P)	TW-705(P)	8/20/2002		25 U	0.0571 U J	25 U	0.0571 U J
TW-706(P)	TW-706(P)	8/21/2002					
TW-707(P)	TW-707(P)	8/21/2002					
TW-708(P)	BT-708(P)	8/20/2002			2 U J		2 U J
TW-708(P)	BT-708(P)	8/20/2002					
TW-708(P)	TW-708(P)	8/20/2002			2.5 U J		2.5 U J
TW-708(P)	TW-708(P)	8/20/2002					
TW-709(P)	TW-709(P)	8/21/2002					
TW-710(P)	TW-710(P)	8/21/2002			0.05 U J		0.05 U J
TW-710(P)	TW-710(P)	8/21/2002					
TW-711(P)	BT-711(P)	8/21/2002					
TW-711(P)	TW-711(P)	8/21/2002					
TW-712(P)	TW-712(P)	8/21/2002			0.05 U J		0.05 U J
TW-712(P)	TW-712(P)	8/21/2002					
TW-714(P)	TW-714(P)	8/21/2002			2.5 U J		2.5 U J
TW-714(P)	TW-714(P)	8/21/2002					
TW-716(P)	TW-716(P)	8/20/2002			0.05 U J		0.05 U J
TW-716(P)	TW-716(P)	8/20/2002					
TW-717(P)	TW-717(P)	8/20/2002			0.2 U J		0.2 U J
TW-717(P)	TW-717(P)	8/20/2002					
TW-718(P)	TW-718(P)	8/21/2002			0.05 U J		0.05 U J
TW-718(P)	TW-718(P)	8/21/2002					

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SVOCs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	n-Nitrosodiphenylamine	Pentachlorophenol	Phenanthrene	Phenol	Pyrene
			ug/L	ug/L	ug/L	ug/L	ug/L
TW-719(P)	BT-719(P)	8/23/2002			0.05 U		0.05 U
TW-719(P)	BT-719(P)	8/23/2002					
TW-719(P)	TW-719(P)	8/23/2002			0.05 U		0.05 U
TW-719(P)	TW-719(P)	8/23/2002					
TW-720(P)	TW-720(P)	8/23/2002			2.21		0.05 U
TW-720(P)	TW-720(P)	8/23/2002					
TW-900(S)	SB-900(TW)	8/26/2002			0.05 U		0.05 U
TW-901(S)	SB-901(TW)	8/26/2002			1 U		1 U
TW-901(S)	SB-901(TW)	8/26/2002					
TW-902(S)	SB-902(TW)	8/26/2002			1.35		0.5 U
TW-903(S)	SB-903(TW)	8/26/2002			2.01		0.2 U
TW-903(S)	SB-903(TW)	8/26/2002					
TW-904(S)	SB-904(TW)	8/26/2002			0.989		0.1 U
TW-904(S)	SB-904(TW)	8/26/2002					
TW-905(S)	SB-905(TW)	8/26/2002					
TW-906(S)	SB-906(TW)	8/27/2002			0.05 U		0.05 U
TW-906(S)	SB-906(TW)	8/27/2002					
TW-908(S)	SB-908(TW)	8/27/2002			0.05 U		0.05 U
TW-908(S)	SB-908(TW)	8/27/2002					
TW-909(S)	SB-909(TW)	8/27/2002			0.05 U		0.05 U
TW-910(S)	SB-910(TW)	8/26/2002			0.06 U		0.05 U
TW-911(S)	SB-911(TW)	8/27/2002			0.2 U		0.1 U
TW-911(S)	SB-911(TW)	8/27/2002					

TABLE D-15

ANIONS AND CATIONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Alkalinity, Total	Calcium	Chemical Oxygen Demand	Chloride	Formaldehyde	Iron	Magnesium	Manganese	Nitrogen, Nitrate (as N)
			MgCaCO3/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1(F)	10/22/2003	490	119000		17500		46600	46800	10500	
MW-2(M)	MW-2(M)	6/19/2003			26100			28100			100 U
MW-2(M)	MW-2 (M)	10/15/2003	116	23400		16800		39300	11100	1690	
MW-6(M)	MW-6(M)	6/19/2003			15800			11800			100 U
MW-6(M)	MW-6 (M)	1/12/2004	130	15700		16500		29000	11100	2320	
MW-7(M)	BM-7(M)	6/19/2003			16400			12200			100 U
MW-7(M)	MW-7(M)	6/19/2003			14800			13000			100 U
MW-7(M)	MW-7(M)	10/13/2003	208	41800		13200		19600	19500	1060	
MW-10(M)	MW-10(M)	6/19/2003			30600			47000			100 U
MW-10(M)	MW-10 (M)	10/15/2003	225	46500		9610		68300	32600	1320	
MW-11(M)	MW-11(M)	6/19/2003			9510			25700			100 U
MW-11(M)	MW-11 (M)	10/15/2003	115	13800		20800		27800	17600	473	
MW-12(A)	MW-12(A)	10/22/2003						870			
MW-12(A)	MW-12 (A)	1/15/2004	136	131000		13900		133	18300	12.7	
MW-13(A)	MW-13(A)	10/22/2003	497	136000		14800		1270	20500	131	
MW-14(A)	MW-14(A)	10/21/2003	132	110000		12900		348	18300	245	
MW-15(A)	MW-15(A)	10/20/2003						7810			
MW-16(A)	MW-16(A)	10/20/2003						13300			
MW-16(A)	MW-16(A)	1/19/2004	300	92200		15800		12000	22000	458	
MW-17(A)	MW-17 (A)	10/17/2003	240	102000		13400		18400	22400	991	
MW-18(A)	MW-18(A)	10/21/2003						20000			
MW-18(A)	MW-18(A)	1/19/2004	332	67000		13200		28600	28100	1530	
MW-19(A)	BM-19(A)	10/20/2003						12800			
MW-19(A)	MW-19(A)	10/20/2003						12700			
MW-19(A)	MW-19 (A)	1/13/2004	92.7	19700		12600		3010	10400	162	
MW-20(A)	MW-20(A)	10/20/2003	71.2	17800		7240		15700	15000	581	

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ANIONS AND CATIONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Alkalinity, Total	Calcium	Chemical Oxygen Demand	Chloride	Formaldehyde	Iron	Magnesium	Manganese	Nitrogen, Nitrate (as N)
			MgCaCO3/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21(A)	10/20/2003						25000			
MW-21(A)	BM-21 (A)	1/13/2004	109	20800		7850		15300	9320	576	
MW-21(A)	MW-21 (A)	1/13/2004	107	20400		7860		14100	9330	581	
MW-22(A)	MW-22 (A)	10/16/2003						18600			
MW-22(A)	MW-22(A)	1/19/2004	85	26600		10200		14300	10000	337	
MW-23(A)	MW-23(A)	10/20/2003	90.3	37800		11500		6210	11200	293	
MW-24(A)	MW-24(A)	10/21/2003	206	12100		54500		1200	7620	225	
MW-26(A)	MW-26 (A)	10/17/2003						13900			
MW-26(A)	MW-26 (A)	1/15/2004	127	21000		12300		34600	7660	1390	
MW-27(A)	MW-27(A)	10/21/2003						996			
MW-27(A)	MW-27 (A)	1/14/2004	34.4	12500		10200		33300	5720	294	
MW-28(A)	MW-28 (A)	10/17/2003						58500			
MW-28(A)	MW-28(A)	1/19/2004	138	46900		10700		48300	14500	1610	
MW-29(A)	MW-29(A)	10/21/2003						37600			
MW-29(A)	MW-29(A)	1/19/2004	173	26400		10100		41400	13100	1780	
MW-30(A)	MW-30 (A)	10/16/2003	162	28000		8510		38200	16600	1470	
MW-31(A)	BM-31 (A)	10/16/2003	200	33900		10800		29500	23300	1750	
MW-31(A)	MW-31 (A)	10/16/2003	202	33500		10700		29100	23500	1700	
MW-32(A)	MW-32(A)	10/14/2003	153	12400		26700		3240	24400	110	
MW-33(A)	MW-33(A)	10/14/2003	186	24100		16600		16700	14100	575	
MW-34(A)	MW-34(A)	10/14/2003	179	31600		19100		5500	26000	324	
MW-35(A)	MW-35 (A)	10/16/2003	45.7	9060		16600		5930	6620	206	
MW-36(A)	MW-36(A)	10/21/2003						15000			
MW-36(A)	MW-36 (A)	1/14/2004	84	17900		6750		410	5450	59	

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ANIONS AND CATIONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Alkalinity, Total	Calcium	Chemical Oxygen Demand	Chloride	Formaldehyde	Iron	Magnesium	Manganese	Nitrogen, Nitrate (as N)
			MgCaCO3/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-37(A)	MW-37 (A)	10/17/2003						27100			
MW-38(A)	MW-38(A)	10/21/2003	150	32400		17200		1480	13000	209	
MW-39(A)	MW-39 (A)	10/16/2003						6090			
MW-39(A)	MW-39 (A)	1/16/2004	63.7	11800		9700		12800	5050	146	
MW-40(A)	MW-40 (A)	10/17/2003	190	28400		10400		42500	24900	1440	
MW-41(A)	MW-41(A)	10/14/2003	185	40600		9230		35000	13600	2290	
MW-42(A)	MW-42 (A)	10/15/2003	218	48300		7640		48200	18100	2620	
MW-43(A)	MW-43(A)	10/13/2003	91	25900		9310		6250	5580	598	
MW-44(A)	MW-44 (A)	10/17/2003	90.8	17100		14600		36800	5100	540	
MW-45(A)	MW-45 (A)	10/16/2003						10400			
MW-45(A)	MW-45 (A)	1/16/2004	71.6	24100		12100		798	7530	57.7	
MW-46(A)	MW-46(A)	10/14/2003	54	10100		7640		15400	6320	722	
MW-47(A)	MW-47(A)	10/13/2003	36.1	7890		11600		490	8340	47.6	
MW-48(A)	MW-48(A)	10/14/2003	83.3	18000		11600		25700	10400	872	
TW-704(P)	TW-704(P)	8/21/2002					220 U				
TW-705(P)	TW-705(P)	8/20/2002					77 U				

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ANIONS AND CATIONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Nitrogen, Nitrate-Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon (TOC)
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1(F)	10/22/2003	1000 U	8540	96300	168000		
MW-2(M)	MW-2(M)	6/19/2003					138000	4610
MW-2(M)	MW-2 (M)	10/15/2003	2000 U B	6030	12600	1000 U B		
MW-6(M)	MW-6(M)	6/19/2003					163000	4070
MW-6(M)	MW-6 (M)	1/12/2004	500 U	4000	21900	1430		
MW-7(M)	BM-7(M)	6/19/2003					244000	3960
MW-7(M)	MW-7(M)	6/19/2003					248000	3900
MW-7(M)	MW-7(M)	10/13/2003	149	6690	14300	5760		
MW-10(M)	MW-10(M)	6/19/2003					330000	7590
MW-10(M)	MW-10 (M)	10/15/2003	2000 U B	11300	11600	770 U B		
MW-11(M)	MW-11(M)	6/19/2003					182000	1920
MW-11(M)	MW-11 (M)	10/15/2003	2000 U	8130	8560	2360		
MW-12(A)	MW-12(A)	10/22/2003						
MW-12(A)	MW-12 (A)	1/15/2004	2010	7110	64000	371000		
MW-13(A)	MW-13(A)	10/22/2003	20 U	7710	62600	52600		
MW-14(A)	MW-14(A)	10/21/2003	47.2	7410	51400	353000		
MW-15(A)	MW-15(A)	10/20/2003						
MW-16(A)	MW-16(A)	10/20/2003						
MW-16(A)	MW-16(A)	1/19/2004	107 J+,B	7990	43500	133000		
MW-17(A)	MW-17 (A)	10/17/2003	2000 U	11800	56400	204000		
MW-18(A)	MW-18(A)	10/21/2003						
MW-18(A)	MW-18(A)	1/19/2004	50 U	11100	45400	24200		
MW-19(A)	BM-19(A)	10/20/2003						
MW-19(A)	MW-19(A)	10/20/2003						
MW-19(A)	MW-19 (A)	1/13/2004	512	5050	24500	25000		
MW-20(A)	MW-20(A)	10/20/2003	1000 U	7170	18000	90500		

TABLE D-15

ANIONS AND CATIONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Nitrogen, Nitrate-Nitrite	Potassium	Sodium	Sulfate	Total Dissolved Solids	Total Organic Carbon (TOC)
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21(A)	10/20/2003						
MW-21(A)	BM-21 (A)	1/13/2004	500 U	5520	13900	8340		
MW-21(A)	MW-21 (A)	1/13/2004	500 U	5210	14100	7940		
MW-22(A)	MW-22 (A)	10/16/2003						
MW-22(A)	MW-22(A)	1/19/2004	415 J+,B	5280	12000	38100		
MW-23(A)	MW-23(A)	10/20/2003	1000 U B	4710	20900	104000		
MW-24(A)	MW-24(A)	10/21/2003	1000 U B	7900	92400	17600		
MW-26(A)	MW-26 (A)	10/17/2003						
MW-26(A)	MW-26 (A)	1/15/2004	500 U	3980	9580	12800		
MW-27(A)	MW-27(A)	10/21/2003						
MW-27(A)	MW-27 (A)	1/14/2004	760	3070	14400	43900		
MW-28(A)	MW-28 (A)	10/17/2003						
MW-28(A)	MW-28(A)	1/19/2004	50 U	4230	16800	128000		
MW-29(A)	MW-29(A)	10/21/2003						
MW-29(A)	MW-29(A)	1/19/2004	53.1 J+,B	5530	7110	4950		
MW-30(A)	MW-30 (A)	10/16/2003	2000 U	7180	7490	1000 U U		
MW-31(A)	BM-31 (A)	10/16/2003	2000 U B	9030	11400	3280		
MW-31(A)	MW-31 (A)	10/16/2003	2000 U	8920	11600	1200 J+,B		
MW-32(A)	MW-32(A)	10/14/2003	52 J	12000	48200	64500		
MW-33(A)	MW-33(A)	10/14/2003	94 J	9210	39600	13800		
MW-34(A)	MW-34(A)	10/14/2003	39 J	12400	14800	16400		
MW-35(A)	MW-35 (A)	10/16/2003	2000 U	4940	8040	8640		
MW-36(A)	MW-36(A)	10/21/2003						
MW-36(A)	MW-36 (A)	1/14/2004	852	3860	19000	9990		

TABLE D-15

ANIONS AND CATIONS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Nitrogen, Nitrate-Nitrite		Potassium	Sodium	Sulfate		Total Dissolved Solids	Total Organic Carbon (TOC)
			ug/L		ug/L	ug/L	ug/L		ug/L	ug/L
MW-37(A)	MW-37 (A)	10/17/2003								
MW-38(A)	MW-38(A)	10/21/2003	1000	U	6600	29400	38900			
MW-39(A)	MW-39 (A)	10/16/2003								
MW-39(A)	MW-39 (A)	1/16/2004	500	U	2820	10200	3450			
MW-40(A)	MW-40 (A)	10/17/2003	2000	U	12400	10000	1130			
MW-41(A)	MW-41(A)	10/14/2003	200	U	5330	8680	5910			
MW-42(A)	MW-42 (A)	10/15/2003	2000	U	6490	9190	5800			
MW-43(A)	MW-43(A)	10/13/2003	70	J	4320	6420	7610			
MW-44(A)	MW-44 (A)	10/17/2003	2000	U	3420	10300	8530			
MW-45(A)	MW-45 (A)	10/16/2003								
MW-45(A)	MW-45 (A)	1/16/2004	1180		4380	13200	22700			
MW-46(A)	MW-46(A)	10/14/2003	112	J	5740	5770	1240	J+,B		
MW-47(A)	MW-47(A)	10/13/2003	1030	D	7260	8790	25200			
MW-48(A)	MW-48(A)	10/14/2003	200	U	8760	10600	45600			
TW-704(P)	TW-704(P)	8/21/2002								
TW-705(P)	TW-705(P)	8/20/2002								

TABLE D-16

DISSOLVED METALS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1 (F)	1/15/2004	1.4	60.9	1 U	1 U		1 U B	0.2 U	1.41	1 U
MW-2(M)	MW-2 (M)	10/15/2003	19.3	11.8	1 U	1.37		2.03	0.2 U B	2 U B	1 U
MW-6(M)	MW-6(M)	6/19/2003						10 U			
MW-6(M)	MW-6(M)	10/22/2003	13.3	12.4	1 U	1.32		0.27 J	0.038 J	0.76 J	1 U
MW-7(M)	BM-7(M)	6/19/2003						10 U			
MW-7(M)	MW-7(M)	6/19/2003						10 U			
MW-7(M)	MW-7(M)	10/13/2003	9.85	17.8	1 U	1 U		1 U	0.2 U B	0.93 J	1 U
MW-10(M)	MW-10 (M)	1/13/2004	26.4	38.2	1 U	1 U		0.37 J	0.2 U	1.19 J+,B	0.07 J
MW-11(M)	MW-11(M)	6/19/2003						10 U			
MW-11(M)	MW-11 (M)	10/15/2003	14.8	10	0.14 J	1.02		0.24 J	0.2 U B	2 U B	1 U
MW-12(A)	MW-12(A)	10/22/2003	1 U	39.5	1 U	1 U		0.24 J	0.2 U	5 U B	1 U
MW-13(A)	MW-13(A)	10/22/2003	1 U	14.3	1 U	1.18		0.74 J	0.2 U	5 U B	1 U
MW-14(A)	MW-14(A)	10/21/2003	1 U	27.7	1 U	1 U		0.21 J	0.2 U	5 U B	1 U
MW-15(A)	MW-15(A)	10/20/2003	1 U	32.8	1 U	1 U		0.32 J	0.2 U	1 U	1 U
MW-16(A)	MW-16(A)	10/20/2003	1 U	25.4	1 U	1 U		0.34 J	0.2 U	1 U B	1 U
MW-17(A)	MW-17 (A)	10/17/2003	1 U	36.2	1 U	1 U		0.1 J	0.2 U	1 U B	1 U
MW-18(A)	MW-18(A)	10/21/2003	1 U	44.3	1 U	1 U		0.19 J	0.072 J	1 U B	1 U
MW-19(A)	BM-19(A)	10/20/2003	1.88	26.4	1 U	1 U		0.14 J	0.2 U	1 U B	1 U
MW-19(A)	MW-19(A)	10/20/2003	1.73	28.8	1 U	1 U		0.39 J	0.2 U	1 U B	1 U
MW-20(A)	MW-20(A)	10/20/2003	1.18	15	1 U	1 U		0.22 J	0.2 U	1 U	1 U
MW-21(A)	MW-21(A)	10/20/2003	1 U	15.2	1 U	1 U		0.43 J	0.2 U	1 U B	1 U
MW-22(A)	MW-22 (A)	10/16/2003	1 U	17	1 U	1.04		0.19 J	0.2 U B	2 U B	1 U
MW-23(A)	MW-23(A)	10/20/2003	1 U	24.7	1 U	1 U		0.33 J	0.2 U	1 U	1 U

TABLE D-16

DISSOLVED METALS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-24(A)	MW-24(A)	10/21/2003	2.43	57.2	1 U	1 U		0.33 J	0.2 U	1.27 J+,B	1 U
MW-26(A)	MW-26 (A)	10/17/2003	1 U	52	1 U	1 U		1.16	0.2 U B	1 U B	1 U
MW-27(A)	MW-27(A)	10/21/2003	0.99 J	11.9	0.1 J	1 U		0.3 J	0.2 U	1.6 J+,B	1 U
MW-28(A)	MW-28 (A)	10/17/2003	1 U	38.1	1 U	1 U		1.02	0.2 U B	1 U B	1 U
MW-29(A)	MW-29(A)	10/21/2003	5.97	19.7	1 U	1 U		3	0.088 J	5 U	1 U
MW-30(A)	MW-30 (A)	10/16/2003	6.93	27.6	1 U	1.25		0.44 J	0.2 U B	2 U B	1 U
MW-31(A)	BM-31 (A)	10/16/2003	13.3	23.3	1 U	0.99 J		1 U	0.2 U	1 U	1 U
MW-31(A)	MW-31 (A)	10/16/2003	15.3	25.2	1 U	1.11		0.18 J	0.2 U B	1 U B	1 U
MW-32(A)	MW-32(A)	10/14/2003	2.28	25	1 U	1 U		0.13 J	0.2 U	1 U	1 U
MW-33(A)	MW-33(A)	10/14/2003	18.2	15.5	1 U	1 U		0.14 J	0.2 U B	1 U	1 U
MW-34(A)	MW-34(A)	10/14/2003	1 U	23.5	1 U	1 U		0.14 J	0.2 U	1 U	1 U
MW-35(A)	MW-35 (A)	10/16/2003	1 U	13.2	1 U	0.92 J		1 U	0.2 U J	1 U	1 U
MW-36(A)	MW-36(A)	10/21/2003	1 U	82.7	1 U	1 U		0.98 J	0.2 U	2.61 J+,B	1 U
MW-37(A)	MW-37 (A)	10/17/2003	1 U	24.8	1 U	2.03		0.41 J	0.2 U B	1 U B	1 U
MW-38(A)	MW-38(A)	10/21/2003	1 U	20	1 U	1 U		0.24 J	0.2 U	1.34 J+,B	1 U
MW-39(A)	MW-39 (A)	10/16/2003	1.79	6.83	1 U	0.86 J		0.19 J	0.2 U B	1.11 J+,B	1 U
MW-40(A)	MW-40 (A)	10/17/2003	1.86	22.2	1 U	1.3		0.27 J	0.2 U B	1 U	1 U
MW-41(A)	MW-41(A)	10/14/2003	12.4	23	1 U	1 U		1 U	0.2 U B	1 U	1 U
MW-42(A)	MW-42 (A)	10/15/2003	35.6	20.2	1 U	1 U		0.48 J	0.2 U B	2 U B	1 U
MW-43(A)	MW-43(A)	10/13/2003	7.34	23.4	1 U	1 U		0.14 J	0.2 U	0.96 J	1 U

TABLE D-16

DISSOLVED METALS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-44(A)	MW-44 (A)	10/17/2003	11.9	13	1 U	1.09		0.29 J	0.2 U B	1 U B	1 U
MW-45(A)	MW-45 (A)	10/16/2003	2.25	3.79	1 U	0.97 J		0.16 J	0.2 U	1 U	1 U
MW-46(A)	MW-46(A)	10/14/2003	1 U	9.1	1 U	54.3		0.29 J	0.2 U B	1 U	1 U
MW-46(A)	MW-46(A)	11/10/2004				22.1	18.6				
MW-46(A)	MW-46(A)	2/8/2005				24.9	10 U				
MW-46(A)	MW-102	6/29/2005				10.3	10 U				
MW-46(A)	MW-46(A)	6/29/2005				11.6	10 U				
MW-47(A)	MW-47(A)	10/13/2003	1 U	17.4	1 U	0.79 U		0.18 J	0.2 U	1 U	1 U
MW-47(A)	MW-47(A)	2/8/2005				5.51	10 U				
MW-47(A)	MW-47(A)	6/29/2005				1.82	10 U				
MW-48(A)	MW-48(A)	10/14/2003	1 U	31.4	1 U	0.79 U		0.51 J	0.2 U J	1 U	1 U
MW-48(A)	MW-48(A)	2/8/2005				1 U	10 U				
MW-48(A)	MW-48(A)	6/29/2005				1 U	10 U				
MW-48(A)	MW-101	6/29/2005				1 U	10 U				
TW-100(C)	SB100(C)W	8/22/2002	5.57	229	1 U	24.1		22.3	0.2 U	2.17	1 U
TW-200(C)	SB200(C)W	8/22/2002	1.94	39.3	1 U	5.99		3.35	0.2 U	1 U	1 U
TW-201(C)	SB201(C)W	8/22/2002	2.76	54.5	1 U	8.37		4.81	0.2 U	1 U	1 U
TW-202(C)	SB202(C)W	8/22/2002	2.99	66.9	1 U	9.05		6.56	0.2 U	1 U	1 U
TW-203(C)	SB203(C)W	8/22/2002	1.53	45	1 U	4.22		2.84	0.2 U	1 U	1 U
TW-204(C)	SB204(C)W	8/22/2002	2.22	17.8	1 U	2.48		2.29	0.2 U	1 U	1 U
TW-204(C)	SB204(C)W2	8/22/2002	2.25	17	1 U	2.26		2.29	0.2 U	1 U	1 U
TW-305(D)	SB-305-D-9.0	8/19/2002						1.52			
TW-311(D)	SB-311-D-10.0	8/19/2002						0.19 J			
TW-312(D)	SB-312-D-10.0	8/19/2002						0.27 J			
TW-313(D)	TW-313-D-22.	8/20/2002						0.23 J			
TW-318(D)	TW-318-D-22.	8/20/2002						1 U			
TW-600(N)	TW-600(N)	9/13/2002						1 U			
TW-601(N)	TW-601(N)	9/13/2002						1 U			
TW-602(N)	BT-602(N)	9/13/2002						1 U			
TW-602(N)	TW-602(N)	9/13/2002						1 U			
TW-603(N)	TW-603(N)	9/13/2002						1 U			
TW-608(N)	TW-608 (N)	9/13/2002						1 U			

TABLE D-16

DISSOLVED METALS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-612(N)	TW-612(N)	9/12/2002						1 U			
TW-616(N)	TW-616(N)	9/12/2002						1.01			
TW-619(N)	TW-619(N)	9/12/2002						1 U			
TW-623(N)	TW-623(N)	9/12/2002						1 U			
TW-624(N)	TW-624(N)	9/12/2002			1 U	1 U		1 U			
TW-700(P)	TW-700(P)	8/21/2002	6.64	10.2	1 U	1 U		1 U	0.2 U	1 U	1 U
TW-701(P)	TW-701(P)	8/20/2002	12.2	12.4	1 U	1 U		1 U	0.2 U	1 U	1 U
TW-702(P)	TW-702(P)	8/21/2002	1 U	5.68	1 U	1 U		1 U	0.2 U	1 U	1 U
TW-703(P)	TW-703(P)	8/21/2002	64.6	20.2	1 U	U B		1 U	0.2 U	1 U	1 U
TW-704(P)	TW-704(P)	8/21/2002	1 U	11.6	1 U	U B		1 U	0.2 U	1 U	1 U
TW-705(P)	TW-705(P)	8/20/2002	5.29	11.9	1 U	1 U		1 U	0.2 U	U B	1 U
TW-706(P)	TW-706(P)	8/21/2002	6.72	10.2	1 U	1 U		1 U	0.2 U	1 U	1 U
TW-708(P)	BT-708(P)	8/20/2002	6.7	25.2	1 U	1 U		1 U	0.2 U	U B	U B
TW-708(P)	TW-708(P)	8/20/2002	6.08	26	1 U	1.06		1 U	0.2 U	U B	1 U
TW-710(P)	TW-710(P)	8/21/2002	1.56	8.93	1 U	U B		1 U	0.2 U	1.41	1 U
TW-712(P)	TW-712(P)	8/21/2002	2.37	18.3	1 U	U B		1 U	0.2 U	1 U	1 U
TW-716(P)	TW-716(P)	8/20/2002						1 U			
TW-717(P)	TW-717(P)	8/20/2002						1 U			
TW-719(P)	BT-719(P)	8/23/2002						1 U			
TW-719(P)	TW-719(P)	8/23/2002						1 U			
TW-720(P)	TW-720(P)	8/23/2002						1.59 JB			
TW-900(S)	SB-900(TW)	8/26/2002			1 U	1 U		1 U			
TW-901(S)	SB-901(TW)	8/26/2002			1 U	1		1.18			
TW-902(S)	SB-902(TW)	8/26/2002			1 U	1 U		1 U			
TW-903(S)	SB-903(TW)	8/26/2002			1 U	1.19		1 U			
TW-904(S)	SB-904(TW)	8/26/2002			1 U	1.15		1 U			
TW-905(S)	SB-905(TW)	8/26/2002			1 U	5.48		4.62			
TW-906(S)	SB-906(TW)	8/27/2002			1 U	1 U		1 U			
TW-908(S)	SB-908(TW)	8/27/2002			1 U	1 U		1 U			
TW-909(S)	SB-909(TW)	8/27/2002			1 U	1 U		1 U			
TW-910(S)	SB-910(TW)	8/26/2002			1 U	1.06		1 U			
TW-911(S)	SB-911(TW)	8/27/2002			1 U	1 U		1 U			

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METALS IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-1(F)	MW-1(F)	10/22/2003	9.53	254	0.24 J	23.7		25.5	0.2 U B	2.22	0.18 J
MW-1(F)	MW-1 (F)	1/15/2004	2.34	64.9	1 U	1 U		1 U B	0.2 U B	1.29	1 U
MW-1(F)	MW-1(F)	4/15/2004						1.89			
MW-1(F)	MW-1 (F)	7/20/2004						0.39 J			
MW-2(M)	MW-2(M)	6/19/2003						10 U			
MW-2(M)	MW-2 (M)	10/15/2003	21.6	32	1 U	4.98		8.72	0.2 U	1 U	1 U
MW-2(M)	MW-2 (M)	1/12/2004	17.2	13.8	1 U	1 U		1.77 J+,B	0.2 U B	1 U	1 U
MW-2(M)	MW-2(M)	4/14/2004						60.5			
MW-2(M)	MW-2 (M)	7/22/2004						21.7			
MW-6(M)	MW-6(M)	10/22/2003	13.3	20	1 U	2.07		7.57	0.2 U B	0.98 J	1 U
MW-6(M)	MW-6 (M)	1/12/2004	10.4	16	0.25 J	1.85		3.79 JB	0.288 J+,B	1.11	0.08 J
MW-6(M)	MW-6 (M)	4/13/2004						2.32			
MW-6(M)	MW-6 (M)	7/19/2004						0.67 J			
MW-7(M)	MW-7(M)	10/13/2003	12.6	32.3	1 U	3.54		8.4	0.2 U B	2 U	0.11 J
MW-7(M)	MW-7 (M)	1/12/2004	8.04	33.1	1 U	2.26		8.07	0.2 U	1 U	1 U
MW-7(M)	MW-7 (M)	4/12/2004						20.3			
MW-7(M)	MW-7 (M)	7/19/2004						6.63			
MW-10(M)	MW-10(M)	6/19/2003						10 U			
MW-10(M)	MW-10 (M)	10/15/2003	25.7	111	0.7 J	13.3		11.5	0.262 J+,B	1 U	1 U
MW-10(M)	MW-10 (M)	1/13/2004	25.3	42.6	1 U	1 U		1 U B	0.2 U	1 U	1 U
MW-10(M)	MW-10 (M)	4/13/2004						9.58			
MW-10(M)	MW-10 (M)	7/19/2004						3.53			
MW-11(M)	MW-11 (M)	10/15/2003	13.9	10.3	1 U	1 U		1 U	0.2 U	1 U	1 U
MW-11(M)	MW-11 (M)	1/13/2004	24	30.1	1 U	3.63		4.96 J+,B	0.2 U	1 U	1 U
MW-11(M)	MW-11 (M)	4/13/2004						2.23			
MW-11(M)	MW-11 (M)	7/21/2004						0.45 J			
MW-12(A)	MW-12(A)	10/22/2003	1 U	38	1 U	1 U		1 U	0.2 U	2.77	1 U
MW-12(A)	MW-12 (A)	1/15/2004	1 U	39.1	1 U	1 U		1 U B	0.2 U B	4.41	1 U
MW-12(A)	MW-12(A)	4/16/2004						2.08			
MW-12(A)	MW-12 (A)	7/22/2004						0.5 J			
MW-13(A)	MW-13(A)	10/22/2003	1 U	15	1 U	1 U		0.83 J	0.2 U	1 U	1 U
MW-13(A)	MW-13 (A)	1/15/2004	2.88	38.5	1 U	1 U		2.6	0.2 U B	0.96 J	1 U
MW-13(A)	MW-13(A)	4/16/2004						6.71			

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Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-13(A)	MW-13 (A)	7/22/2004						3.18			
MW-14(A)	MW-14(A)	10/21/2003	1 U	28.3	1 U	1 U		1 U	0.2 U	1 U	1 U
MW-14(A)	MW-14 (A)	1/15/2004	1 U	26.7	1 U	1 U		1 U B	0.2 U B	1.05	1 U
MW-14(A)	MW-14(A)	4/16/2004						1.18			
MW-14(A)	MW-14 (A)	7/23/2004						1 U			
MW-15(A)	MW-15(A)	10/20/2003	1 U	33.6	1 U	1 U		0.47 J	0.2 U	1 U	1 U
MW-16(A)	MW-16(A)	10/20/2003	2.13	39.6	1 U	1.09		0.97 J	0.2 U	1 U	1 U
MW-16(A)	MW-16(A)	1/19/2004	2.6	42.5	1 U	1.39		148	0.2 U	1.35 J+,B	1 U
MW-16(A)	MW-16(A)	4/15/2004						5.04			
MW-16(A)	MW-16 (A)	7/22/2004						1.31			
MW-17 (A)	BM-17 (A)	7/22/2004						1 U			
MW-17(A)	MW-17 (A)	10/17/2003	1 U	49.3	1 U	2.58		1.65	0.2 U	1 U	1 U
MW-17(A)	BM-17(A)	1/19/2004	1.22	33.2	1 U	1 U		1.97	0.2 U	1.27 J+,B	1 U
MW-17(A)	MW-17(A)	1/19/2004	1.77	32.6	1 U	1 U		2.03	0.2 U	1.07 J+,B	1 U
MW-17(A)	MW-17(A)	4/15/2004						3.22			
MW-17(A)	MW-17 (A)	7/22/2004						1 U			
MW-18(A)	MW-18(A)	10/21/2003	1 U	55.6	1 U	1.82		4.57	0.2 U	1 U	1 U
MW-18(A)	MW-18(A)	1/19/2004	1 U	67	1 U	4.06		7.81	0.2 U	1.28 J+,B	1 U
MW-18(A)	MW-18(A)	4/15/2004						14.2			
MW-18(A)	MW-18 (A)	7/21/2004						5.49			
MW-19(A)	BM-19(A)	10/20/2003	1.69	29	1 U	1 U		0.57 J	0.2 U	1 U	1 U
MW-19(A)	MW-19(A)	10/20/2003	1.32	29.9	1 U	1 U		0.5 J	0.2 U	1 U	1 U
MW-19(A)	MW-19 (A)	1/13/2004	0.97 J	14.1	1 U	1 U		1 U B	0.33	1 U	1 U
MW-19(A)	MW-19(A)	4/15/2004						12.3			
MW-19(A)	BM-19 (A)	7/20/2004						8.18			
MW-19(A)	MW-19 (A)	7/20/2004						8.02			
MW-20(A)	MW-20(A)	10/20/2003	1.29	23.7	1 U	1.42		1.45	0.2 U	1 U	1 U
MW-20(A)	MW-20 (A)	1/13/2004	2.15	35.8	1 U	2.4		3.88 J+,B	0.2 U	1 U	1 U
MW-20(A)	MW-20(A)	4/15/2004						9.24			
MW-20(A)	MW-20 (A)	7/20/2004						3.82			
MW-21(A)	MW-21(A)	10/20/2003	1.21	30.6	1 U	1.93		1.8	0.2 U	0.87 J	1 U
MW-21(A)	BM-21 (A)	1/13/2004	1 U	13.6	1 U	1 U		1 U B	0.157 J	1 U	0.07 J

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Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-21(A)	MW-21 (A)	1/13/2004	1 U	13.4	1 U	1 U		1 U B	0.0836 J	1 U	1 U
MW-21(A)	MW-21(A)	4/16/2004						2.16			
MW-21(A)	MW-21 (A)	7/20/2004						0.62 J			
MW-22(A)	MW-22 (A)	10/16/2003	1.47	24.1	1 U	1.45		0.69 J	0.2 U	1 U	1 U
MW-22(A)	MW-22(A)	1/19/2004	1.69	26	1 U	2.03		1.35	0.2 U	1.17 J+,B	1 U
MW-22(A)	MW-22(A)	4/15/2004						4.73			
MW-22(A)	MW-22 (A)	7/20/2004						0.58 J			
MW-23(A)	MW-23(A)	10/20/2003	1 U	25.7	1 U	1 U		0.61 J	0.2 U	1 U	1 U
MW-23(A)	MW-23 (A)	1/15/2004	1 U	11.4	1 U	1 U		3.27	0.2 U B	1.23	1 U
MW-23(A)	BM-23(A)	4/15/2004						23.7			
MW-23(A)	MW-23(A)	4/15/2004						23.3			
MW-23(A)	MW-23 (A)	7/20/2004						1.56			
MW-24(A)	MW-24(A)	10/21/2003	2.15	57.9	1 U	0.89 J		0.93 J	0.2 U	0.6 J	1 U
MW-24(A)	MW-24 (A)	1/15/2004	5.74	23.8	1 U	1.01		5.75	0.2 U B	1 U	1 U
MW-24(A)	MW-24(A)	4/14/2004						4.54			
MW-24(A)	MW-24 (A)	7/22/2004						1.09			
MW-26(A)	MW-26 (A)	10/17/2003	1.04 J	59.3	1 U	1.37		1.97	0.223 J+, B	1 U	1 U
MW-26(A)	MW-26 (A)	1/15/2004	8.61	22.9	1 U	1.57		5.98	0.2 U B	1 U	1 U
MW-26(A)	MW-26(A)	4/14/2004						4.03			
MW-26(A)	MW-26 (A)	7/22/2004						4.22			
MW-27(A)	MW-27(A)	10/21/2003	1	11.2	1 U	1 U		0.33 J	0.2 U	1.05	1 U
MW-27(A)	MW-27 (A)	1/14/2004	16.5	13.3	1 U	1 U		1 U B	0.2 U B	1 U	1 U
MW-27(A)	MW-27 (A)	4/14/2004						1 U			
MW-27(A)	MW-27 (A)	7/22/2004						0.24 J			
MW-28(A)	MW-28 (A)	10/17/2003	3.45 J	112	1 U	12.8		46.4	0.2 U	1 U	1 U
MW-28(A)	MW-28(A)	1/19/2004	3.11	60.8	1 U	6.18		19.8	0.2 U	1.3 J+,B	1 U
MW-28(A)	MW-28(A)	4/14/2004						101			
MW-28(A)	MW-28 (A)	7/23/2004						15.2			
MW-29(A)	MW-29(A)	10/21/2003	5.73	33.6	1 U	2.5		5.04	0.2 U	1 U	1 U
MW-29(A)	MW-29(A)	1/19/2004	6.82	28.5	1 U	2.25		7.74	0.2 U	1.23 J+,B	1 U
MW-29(A)	MW-29(A)	4/16/2004						12.7			
MW-29(A)	MW-29 (A)	7/22/2004						7.45			

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-30(A)	MW-30 (A)	10/16/2003	7.95	65.4	1 U	6.53		3.7	0.248 J+, B	1 U	1 U
MW-30(A)	MW-30 (A)	1/16/2004	10.9	51.5	1 U	4.79		3.17	0.2 U B	1.06	1 U
MW-30(A)	MW-30 (A)	4/13/2004						17.3			
MW-30(A)	MW-30 (A)	7/20/2004						4.79			
MW-31(A)	BM-31 (A)	10/16/2003	13.9	27.1	1 U	0.96 J		0.26 J	0.2 U	1 U	1 U
MW-31(A)	MW-31 (A)	10/16/2003	13.3	26.5	1 U	0.91 J		0.56 J	0.2 U	1 U	1 U
MW-31(A)	MW-31 (A)	1/12/2004	13	46	1 U	2.85		3.02 J+,B	0.115 J	1 U	1 U
MW-31(A)	BM-31 (A)	4/13/2004						15.3			
MW-31(A)	MW-31 (A)	4/13/2004						11.1			
MW-31(A)	MW-31 (A)	7/20/2004						1.82			
MW-32(A)	MW-32(A)	10/14/2003	1.4	27.9	1 U	1.41		0.58 J	0.2 U B	2 U	1 U
MW-32(A)	MW-32 (A)	1/12/2004	2.29	11.9	1 U	1 U		1 U B	0.19 J	1 U	1 U
MW-32(A)	MW-32 (A)	4/13/2004						3.02			
MW-32(A)	MW-32 (A)	7/19/2004						0.92 J			
MW-33(A)	MW-33(A)	10/14/2003	21.6	18.2	1 U	0.94 J		0.41 J	0.2 U B	2 U	1 U
MW-33(A)	MW-33 (A)	1/12/2004	30.7	32.1	1 U	1.57		1.51 J+.B	0.0747 B	1 U	1 U
MW-33(A)	MW-33 (A)	4/13/2004						11.8			
MW-33(A)	MW-33 (A)	7/19/2004						0.62 J			
MW-34(A)	MW-34(A)	10/14/2003	1.42	36.7	1 U	3.05		1.32	0.2 U B	2 U	1 U
MW-34(A)	MW-34 (A)	1/13/2004	3.26	33.3	0.19 J	2.53		1.62 J+,B	0.2 U	1 U	1 U
MW-34(A)	MW-34 (A)	4/14/2004						7.5			
MW-34(A)	MW-34 (A)	7/20/2004						1 U			
MW-35(A)	MW-35 (A)	10/16/2003	1.02	13.6	1 U	1.5		0.24 J	0.2 U	1 U	1 U
MW-35(A)	MW-35 (A)	1/16/2004	1.8	22.1	1 U	1.9		1.44	0.2 U B	1.49	1 U
MW-35(A)	MW-35 (A)	4/13/2004						5.11			
MW-35(A)	MW-35 (A)	7/20/2004						1.03			
MW-36(A)	MW-36(A)	10/21/2003	2.27	169	1 U	4.74		12.6	0.2 U	2.16	1 U
MW-36(A)	MW-36 (A)	1/14/2004	1 U	38.4	1 U	1.42		3.06	0.2 U B	1 U	1 U
MW-36(A)	MW-36 (A)	4/14/2004						26.8			
MW-36(A)	MW-36 (A)	7/22/2004						4.68			
MW-37(A)	MW-37 (A)	10/17/2003	1 U	27.5	1 U	0.93 J		0.58 J	0.2 U	1 U	1 U
MW-38(A)	MW-38(A)	10/21/2003	1 U	20.9	1 U	1 U		0.48 J	0.2 U	1 U	1 U

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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-38(A)	MW-38 (A)	1/14/2004	1 U	12.3	1 U	1 U		1.2 J+,B	0.2 U	1 U	1 U
MW-38(A)	MW-38 (A)	4/14/2004						8.28			
MW-38(A)	MW-38 (A)	7/22/2004						0.62 J			
MW-39(A)	MW-39 (A)	10/16/2003	1.65	7.54	1 U	1 U		0.19 J	0.2 U	1 U	1 U
MW-39(A)	MW-39 (A)	1/16/2004	2.29	11.2	1 U	0.88 J		1 U B	0.31 JB	0.9 J	1 U
MW-39(A)	MW-39 (A)	4/14/2004						1.12			
MW-39(A)	MW-39 (A)	7/21/2004						0.57 J			
MW-40(A)	MW-40 (A)	10/17/2003	3.81	46.2	1 U	5.42		2.95	0.2 U	1 U	1 U
MW-40(A)	MW-40(A)	1/20/2004	12.8	33.1	1 U	1 U		5.19	0.2 U	1.14 J+,B	1 U
MW-40(A)	MW-40(A)	4/16/2004						56.7			
MW-41(A)	MW-41(A)	10/14/2003	14.4	23.5	1 U	1 U		0.13 J	0.2 U B	2 U	1 U
MW-42(A)	MW-42 (A)	10/15/2003	37.2	43.6	1 U	4.66		2.75	0.2 U	0.71 J	1 U
MW-43(A)	MW-43(A)	10/13/2003	7.52	22.7	1 U	0.85 J		0.23 J	0.2 U B	2 U	1 U
MW-43(A)	MW-43 (A)	1/12/2004	11.6	31.2	1 U	1.89		2.18 J+,B	0.2 U B	1 U	1 U
MW-43(A)	MW-43 (A)	4/13/2004						0.51 J			
MW-43(A)	MW-43 (A)	7/21/2004						0.29 J			
MW-44(A)	MW-44 (A)	10/17/2003	12.2	14.7	1 U	0.85 J		0.86 J	0.2 U	1 U	1 U
MW-45(A)	MW-45 (A)	10/16/2003	6.55	8.55	1 U	1.11		0.54 J	0.2 U	1 U	1 U
MW-45(A)	MW-45 (A)	1/16/2004	1 U	8.37	1 U	1 U		1 U B	0.2 U	1.45	1 U
MW-45(A)	MW-45 (A)	4/14/2004						1.49			
MW-45(A)	MW-45 (A)	7/21/2004						0.8 J			
MW-46(A)	MW-46(A)	10/14/2003	1.25	15.6	1 U	60.6		1.41	0.2 U B	2 U	1 U
MW-46(A)	MW-46(A)	1/14/2004	3.11	26	1 U	16.5	5.42 J	2.17 J+,B	0.2 U	1 U	1 U
MW-46(A)	MW-46 (A)	4/12/2004						4.95			
MW-46(A)	MW-46(A)	4/12/2004				34.9					
MW-46(A)	MW-46 (A)	7/21/2004				21.7	14.8	1.18			
MW-46(A)	MW-46 (A)	38189				28					
MW-46(A)	MW-46(A)	11/10/2004				37.5					
MW-46(A)	MW-46(A)	2/8/2005				41.1					
MW-46(A)	MW-102	6/29/2005				41.4					
MW-46(A)	MW-46(A)	6/29/2005				38.6					

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Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Barium	Cadmium	Chromium	Chromium, Hexavalent	Lead	Mercury	Selenium	Silver
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-47(A)	MW-47(A)	10/13/2003	1 U	19.5	1 U	1.65		0.57 J	0.2 U	2 U	1 U
MW-47(A)	MW-47 (A)	1/14/2004	4.14	26.6	1 U	2.34		3.14 J+,B	0.2 U	1 U	1 U
MW-47(A)	MW-47 (A)	4/12/2004						8.81			
MW-47(A)	MW-47(A)	4/12/2004				5.81					
MW-47(A)	MW-47 (A)	7/21/2004				0.97 J	4.55 U	15			
MW-47(A)	MW-47 (A)	38189				6.84					
MW-47(A)	MW-47(A)	11/10/2004				70.9	10 U				
MW-47(A)	MW-47(A)	38301				1 U					
MW-47(A)	MW-47(A)	2/8/2005				50.5					
MW-47(A)	MW-47(A)	6/29/2005				15.1					
MW-48(A)	MW-48(A)	10/14/2003	1 U	43.5	1 U	2.5		21.6	0.2 U	2 U	1 U
MW-48(A)	MW-48 (A)	1/14/2004	1.14	19.5	1 U	0.79 U		1 U J	0.2 U	1 U	1 U
MW-48(A)	MW-48 (A)	4/12/2004						33.5			
MW-48(A)	MW-48(A)	4/12/2004				3.45					
MW-48(A)	MW-48 (A)	7/21/2004				0.72 U	4.55 U	58.7			
MW-48(A)	MW-48 (A)	38189				6.91					
MW-48(A)	MW-48(A)	11/10/2004				18.8	10 U				
MW-48(A)	MW-48(A)	38301				1 U					
MW-48(A)	MW-48(A)	2/8/2005				8.89					
MW-48(A)	MW-101	6/29/2005				10					
MW-48(A)	MW-48(A)	6/29/2005				9.39					
R-1(M)	R-1(M)	10/22/2003	3.56 J	12	1 U	0.99 J		4.01	0.2 U	1 U	1 U
TW-714(P)	TW-714(P)	8/21/2002						1 U			
TW-900(S)	SB-900(TW)	8/26/2002			1 U	6.09		2.42			
TW-901(S)	SB-901(TW)	8/26/2002			1 U	3.08		5.19			
TW-902(S)	SB-902(TW)	8/26/2002			1 U	14.1		16.6			
TW-903(S)	SB-903(TW)	8/26/2002			1 U	1 U		1 U			
TW-904(S)	SB-904(TW)	8/26/2002			1 U	13.3		3.76			
TW-905(S)	SB-905(TW)	8/26/2002			1 U	156		50.8			
TW-906(S)	SB-906(TW)	8/27/2002			1 U	5.5		2.09			
TW-908(S)	SB-908(TW)	8/27/2002			1 U	22		4.92			
TW-909(S)	SB-909(TW)	8/27/2002			1 U	1.84		1 U			
TW-910(S)	SB-910(TW)	8/26/2002			1 U	2.65		1.57			
TW-911(S)	SB-911(TW)	8/27/2002			1 U	2.8		1.05			

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PCBs IN GROUND WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Aroclor 1258	PCB-1016 (Aroclor 1016)	PCB-1221 (Aroclor 1221)	PCB-1232 (Aroclor 1232)	PCB-1242 (Aroclor 1242)	PCB-1254 (Aroclor 1254)	PCB-1260 (Aroclor 1260)
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TW-100(C)	SB100(C)W	8/22/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-200(C)	SB200(C)W	8/22/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-201(C)	SB201(C)W	8/22/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-202(C)	SB202(C)W	8/22/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-203(C)	SB203(C)W	8/22/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-204(C)	SB204(C)W	8/22/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-204(C)	SB204(C)W2	8/22/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-708(P)	BT-708(P)	8/20/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-708(P)	TW-708(P)	8/20/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-713(P)	TW-713(P)	8/21/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-900(S)	SB-900(TW)	8/26/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-901(S)	SB-901(TW)	8/26/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-902(S)	SB-902(TW)	8/26/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-903(S)	SB-903(TW)	8/26/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-904(S)	SB-904(TW)	8/26/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-905(S)	SB-905(TW)	8/26/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-906(S)	SB-906(TW)	8/27/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-908(S)	SB-908(TW)	8/27/2002	0.5 U J	0.5 U J	1 U J	0.5 U J	0.5 U J	0.5 U J	0.5 U J
TW-909(S)	SB-909(TW)	8/27/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-910(S)	SB-910(TW)	8/26/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U
TW-911(S)	SB-911(TW)	8/27/2002	0.5 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE D-19

RBDMVOCs IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Outfall #2	Outfall #2	9/9/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U
Outfall #2	Outfall #2	11/25/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U
Outfall #2	Outfall #2	2/17/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U
Outfall #2	Outfall #2	10/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U
Outfall #6	Outfall #6	11/25/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U
Outfall #6	Outfall #6	2/17/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U
Outfall #6	Outfall #6	10/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U

TABLE D-19

RBDMVOCs IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	n-Propylbenzene	Toluene	Xylenes
			ug/L	ug/L	ug/L
Outfall #2	Outfall #2	9/9/2003	0.5 U	0.5 U	1 U
Outfall #2	Outfall #2	11/25/2003	0.5 U	0.5 U	1 U
Outfall #2	Outfall #2	2/17/2004	0.5 U	0.5 U	1 U
Outfall #2	Outfall #2	10/19/2004	0.5 U	0.5 U	1 U
Outfall #6	Outfall #6	11/25/2003	0.5 U	0.5 U	1 U
Outfall #6	Outfall #6	2/17/2004	0.5 U	0.5 U	1 U
Outfall #6	Outfall #6	10/19/2004	0.5 U	0.5 U	1 U

TABLE D-20

VOCs IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether	n-Propylbenzene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Outfall #2	Outfall #2	9/9/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
Outfall #2	Outfall #2	11/25/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
Outfall #2	Outfall #2	2/17/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
Outfall #2	Outfall #2	10/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
Outfall #6	Outfall #6	11/25/2003	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2 U	2 U	0.5 U
Outfall #6	Outfall #6	2/17/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U
Outfall #6	Outfall #6	10/19/2004	1 U	0.5 U	0.5 U	0.5 U	0.2 U	0.5 U	2 U	2 U	0.5 U

TABLE D-20

VOCs IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Toluene	Xylenes
			ug/L	ug/L
Outfall #2	Outfall #2	9/9/2003	0.5 U	1 U
Outfall #2	Outfall #2	11/25/2003	0.5 U	1 U
Outfall #2	Outfall #2	2/17/2004	0.5 U	1 U
Outfall #2	Outfall #2	10/19/2004	0.5 U	1 U
Outfall #6	Outfall #6	11/25/2003	0.5 U	1 U
Outfall #6	Outfall #6	2/17/2004	0.5 U	1 U
Outfall #6	Outfall #6	10/19/2004	0.5 U	1 U

TABLE D-21

RBDMSVOCs IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Outfall #2	Outfall #2	9/9/2003	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.1 U	0.1 U
Outfall #2	Outfall #2	9/9/2003										
Outfall #2	Outfall #2	11/25/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U
Outfall #2	Outfall #2	11/25/2003										
Outfall #2	Outfall #2	2/17/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U
Outfall #2	Outfall #2	2/17/2004										
Outfall #2	Outfall #2	10/19/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U
Outfall #2	Outfall #2	10/19/2004										
Outfall #6	Outfall #6	11/25/2003	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U
Outfall #6	Outfall #6	11/25/2003										
Outfall #6	Outfall #6	2/17/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0134	0.01 U	0.05 U	0.05 U
Outfall #6	Outfall #6	2/17/2004										
Outfall #6	Outfall #6	10/19/2004	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.05 U
Outfall #6	Outfall #6	10/19/2004										

TABLE D-21

RBDMSVOCs IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Indeno(1,2,3-cd) pyrene	Naphthalene	Pyrene
			ug/L	ug/L	ug/L
Outfall #2	Outfall #2	9/9/2003	0.1 U	2 U	0.1 U
Outfall #2	Outfall #2	9/9/2003		0.1 U	
Outfall #2	Outfall #2	11/25/2003	0.01 U	2 U	0.05 U
Outfall #2	Outfall #2	11/25/2003		0.05 U	
Outfall #2	Outfall #2	2/17/2004	0.01 U	2 U	0.05 U
Outfall #2	Outfall #2	2/17/2004		0.05 U	
Outfall #2	Outfall #2	10/19/2004	0.01 U	2 U	0.05 U
Outfall #2	Outfall #2	10/19/2004		0.05 U	
Outfall #6	Outfall #6	11/25/2003	0.01 U	2 U	0.05 U
Outfall #6	Outfall #6	11/25/2003		0.05 U	
Outfall #6	Outfall #6	2/17/2004	0.01 U	2 U	0.05 U
Outfall #6	Outfall #6	2/17/2004		0.05 U	
Outfall #6	Outfall #6	10/19/2004	0.01 U	2 U	0.05 U
Outfall #6	Outfall #6	10/19/2004		0.05 U	

TABLE D-22

SVOCs IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Outfall #2	Outfall #2	9/9/2003	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U
Outfall #2	Outfall #2	9/9/2003										
Outfall #2	Outfall #2	11/25/2003	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
Outfall #2	Outfall #2	11/25/2003										
Outfall #2	Outfall #2	2/17/2004	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
Outfall #2	Outfall #2	2/17/2004										
Outfall #2	Outfall #2	10/19/2004	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
Outfall #2	Outfall #2	10/19/2004										
Outfall #6	Outfall #6	11/25/2003	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
Outfall #6	Outfall #6	11/25/2003										
Outfall #6	Outfall #6	2/17/2004	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.0134	0.01 U
Outfall #6	Outfall #6	2/17/2004										
Outfall #6	Outfall #6	10/19/2004	0.05 U	0.05 U	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U
Outfall #6	Outfall #6	10/19/2004										

TABLE D-22

SVOCs IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Outfall #2	Outfall #2	0.1 U	0.1 U	0.1 U	2 U	0.1 U U	0.1 U
Outfall #2	Outfall #2				0.1 U		
Outfall #2	Outfall #2	0.05 U	0.05 U	0.01 U	2 U	0.05 U	0.05 U
Outfall #2	Outfall #2				0.05 U		
Outfall #2	Outfall #2	0.05 U	0.05 U	0.01 U	2 U	0.05 U	0.05 U
Outfall #2	Outfall #2				0.05 U		
Outfall #2	Outfall #2	0.05 U	0.05 U	0.01 U	2 U	0.05 U	0.05 U
Outfall #2	Outfall #2				0.05 U		
Outfall #6	Outfall #6	0.05 U	0.05 U	0.01 U	2 U	0.05 U	0.05 U
Outfall #6	Outfall #6				0.05 U		
Outfall #6	Outfall #6	0.05 U	0.05 U	0.01 U	2 U	0.05 U	0.05 U
Outfall #6	Outfall #6				0.05 U		
Outfall #6	Outfall #6	0.05 U	0.05 U	0.01 U	2 U	0.05 U	0.05 U
Outfall #6	Outfall #6				0.05 U		

TABLE D-23

INORGANICS IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Chemical Oxygen Demand	pH		Phosphors, Total (as P)	Total Organic Carbon (TOC)	Oil and Grease
			ug/L	pH Units		ug/L	ug/L	ug/L
Outfall #1(P)	Location 1	1/22/2003	58000	7.9		410	9800	0
Outfall #2	Outfall #2	9/9/2003		6.11				4720 U
Outfall #2	Outfall #2	11/25/2003		6.18	J			5000 U
Outfall #2	Outfall #2	2/17/2004		6.37	J			5000 U
Outfall #2	Outfall #2	10/19/2004		7.2				5000 U
Outfall #6(P)	Location 2	1/22/2003	35000	7		200	3800	0
Outfall #6	Outfall #6	11/25/2003		6.74	J			5000 U
Outfall #6	Outfall #6	2/17/2004		6.41	J			5000 U
Outfall #6	Outfall #6	10/19/2004		6.98				5000 U

TABLE D-24

METALS IN STORM WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Arsenic, Total	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Zinc
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Outfall #1(P)	Location 1	1/22/2003	0	0	10.4	32	27.7	0	0	131
Outfall #2	Outfall #2	9/9/2003				3.2 J	5.1 J			16.6 J
Outfall #2	Outfall #2	11/25/2003				2 U B	0.72 J			19
Outfall #2	Outfall #2	2/17/2004				2.05	0.7 J			14 J+,B
Outfall #2	Outfall #2	10/19/2004				2.41	0.71 J			11.5 JB
Outfall #6	Outfall #6	11/25/2003				6.87	3.4			139
Outfall #6	Outfall #6	2/17/2004				14.3	8.02			128
Outfall #6	Outfall #6	10/19/2004				8.97	2.95			91.8
Outfall #6(P)	Location 2	1/22/2003	0	0	6.5	12	12.5	0	0	122

TABLE D-25

PETROLEUM HYDROCARBONS IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	Diesel Range Organics	Gasoline Range Organics	Residual Range Organics
			feet	ug/kg	ug/kg	ug/kg
SD-700(P)	SD-700(P)	6/19/2003	0.25	8090000	4780 U	800000
SD-700(P)	SD-700(P)	6/19/2003	0.25	Present	Not Present	Present
SD-701(P)	SD-701(P)	6/19/2003	0.25	150000	2000 U	143000
SD-701(P)	SD-701(P)	6/19/2003	0.25	Present	Present	Not Present

TABLE D-26

VOCs IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichloroethane	1,3,5-Trimethylbenzene
			feet	ug/kg	ug/kg	ug/kg	ug/kg
SD-700(P)	SD-700(P)	6/19/2003	0.25	239 U	120 U	120 U	120 U
SD-701(P)	SD-701(P)	6/19/2003	0.25	100 U	50 U	50 U	50 U

Locator ID	Sample ID	Sample Date	Depth	Benzene	Ethylbenzene	Isopropylbenzene	Methyl-t-butyl ether
			feet	ug/kg	ug/kg	ug/kg	ug/kg
SD-700(P)	SD-700(P)	6/19/2003	0.25	120 U	120 U	478 U	478 U
SD-701(P)	SD-701(P)	6/19/2003	0.25	50 U	50 U	200 U	200 U

Locator ID	Sample ID	Sample Date	Depth	n-Propylbenzene	Toluene	Xylenes
			feet	ug/kg	ug/kg	ug/kg
SD-700(P)	SD-700(P)	6/19/2003	0.25	120 U	120 U	239 U
SD-701(P)	SD-701(P)	6/19/2003	0.25	50 U	50 U	100 U

TABLE D-26

VOCs IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	Depth
			feet
SD-700(P)	SD-700(P)	6/19/2003	0.25
SD-701(P)	SD-701(P)	6/19/2003	0.25
Locator ID	**Sample ID**	**Sample Date**	**Depth**
			feet
SD-700(P)	SD-700(P)	6/19/2003	0.25
SD-701(P)	SD-701(P)	6/19/2003	0.25
Locator ID	**Sample ID**	**Sample Date**	**Depth**
			feet
SD-700(P)	SD-700(P)	6/19/2003	0.25
SD-701(P)	SD-701(P)	6/19/2003	0.25

TABLE D-27

SVOCs IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (feet)(a)	Sample Depth (ft)	LPAH Compounds (µg/kg) Naphthalene	2-Methyl-naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Total LPAH
SD-100	1/26/2006	-2.8	0 - 0.33	7.1 J	2.6 U	3.1 U	2.2 U	3.7 U	280 U	310 U	310 U
SD-101	1/26/2006	-4.3	0 - 0.33	40	20	350 U	250 U	420 U	540 JD	350 U	600 JD
SD-102	1/26/2006	-4.1	0 - 0.33	160	60	520 U	370 U	630 U	620 JD	700 JD	1,540 JD
SD-103	1/26/2006	1.4	0 - 0.33	7.0 J	8.3 J	15	10 J	45	110	480	675 J
SD-104	1/26/2006	6.3	0 - 0.33	2.9 U	2.7 U	3.2 U	2.3 U	3.8 U	8.6 J	3.2 U	8.6 J
REF-EBB	1/26/2006	15.8	0 - 0.33	2.7 U	2.5 U	2.9 U	2.1 U	3.5 U	4.1 J	2.9 U	4.1 J
REF-YB	1/26/2006	0.7	0 - 0.33	2.4 U	2.2 U	2.5 U	1.8 U	3.1 U	3.7 J	2.5 U	3.7 J
SD-700(P)	6/19/2003		0.25	478 U		641 U	684 U	962 U	641 U	1910	
SD-700(P)	6/19/2003		0.25	641 U							
SD-701(P)	6/19/2003		0.25	200 U		26.8 U	26.8 U	26.8 U	59.2	26.8 U	
SD-701(P)	6/19/2003		0.25	26.8 U							

Notes:
(a) Depth to mudline has been tide corrected to Columbia River Datum (CRD)

TABLE D-27

SVOCs IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (feet)(a)	Sample Depth (ft)	HPAH Compounds (µg/kg)						HPAH Compounds (µg/kg)	
				Fluoranthene	Pyrene	Benzo(a)-anthracene	Chrysene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)-pyrene	Indeno(1,2,3-c,d)-pyrene
SD-100	1/26/2006	-2.8	0 - 0.33	650 JD	290	120	210	160	54	76	48
SD-101	1/26/2006	-4.3	0 - 0.33	2,000 D	570	240	710	380	120	160	96
SD-102	1/26/2006	-4.1	0 - 0.33	4,100 D	1,100	920	2,500 D	1,400 JD	300	450	280
SD-103	1/26/2006	1.4	0 - 0.33	250	280	170	320	170	58	58	39
SD-104	1/26/2006	6.3	0 - 0.33	20	22	10 J	18	15	5.8 J	11 J	8.8 J
REF-EBB	1/26/2006	15.8	0 - 0.33	12	15	6.6 J	9.3 J	11 J	5.2 U	9.3 J	7.3 J
REF-YB	1/26/2006	0.7	0 - 0.33	11	13	5.8 J	8.6 J	10	4.5 U	9.3 J	7.7 J
SD-700(P)	6/19/2003		0.25	3340	2960	759	1310	641 U	641 U	641 U	641 U
SD-700(P)	6/19/2003		0.25								
SD-701(P)	6/19/2003		0.25	170	169	70.5	122	83.2	48	52.6	30.1
SD-701(P)	6/19/2003		0.25								

Notes:
(a) Depth to mudline has been tide corrected to Colu

TABLE D-27

SVOCs IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (feet)(a)	Sample Depth (ft)	HPAH Compounds (µg/kg) Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene	Total HPAH	Total PAH
SD-100	1/26/2006	-2.8	0 - 0.33	11	44	1,663 JD	1,663 JD
SD-101	1/26/2006	-4.3	0 - 0.33	19	74	4,369 D	4,969 JD
SD-102	1/26/2006	-4.1	0 - 0.33	56	210	11,316 JD	12,856 JD
SD-103	1/26/2006	1.4	0 - 0.33	8.4 J	32	1,385 J	2,060 J
SD-104	1/26/2006	6.3	0 - 0.33	4.9 U	9.3 J	120 J	128.6 J
REF-EBB	1/26/2006	15.8	0 - 0.33	4.5 U	7.8 J	78.3 J	82.4 J
REF-YB	1/26/2006	0.7	0 - 0.33	3.9 U	9.3 J	74.7 J	78.4 J
SD-700(P)	6/19/2003		0.25	641 U	641 U		
SD-700(P)	6/19/2003		0.25				
SD-701(P)	6/19/2003		0.25	26.8 U	33.6		
SD-701(P)	6/19/2003		0.25				

Notes:
(a) Depth to mudline has been tide corrected to Colu

TABLE D-28

METALS IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (feet)(a)	Sample Depth (cm)	Metals (mg/kg)							
				Arsenic	Cadmium	Chromium	Copper	Lead	Mercury	Silver	Zinc
SD-100	1/26/2006	-2.8	0-10	3.34	0.42	13.2	21	14.4	0.073	0.117	72.2
SD-101	1/26/2006	-4.3	0-10	6.97	0.498	15	33.6	17.8	0.1	0.122	144
SD-102	1/26/2006	-4.1	0-10	8.24	0.472	17.6	55	25.4	0.079	0.098	218
SD-103	1/26/2006	1.4	0-10	4.41	0.578	15	31	15	0.095	0.133	81.2
SD-104	1/26/2006	6.3	0-10	4.45	0.593	14.9	27.7	13.7	0.12	0.142	78.9
REF-EBB	1/26/2006	15.8	0-10	3.22	0.407	11.7	20.9	10.8	0.194	0.121	62.5
REF-YB	1/26/2006	0.7	0-10	4.8	0.759	15.7	20.3	19.4	0.178	0.155	85.8

Note:
(a) Depth to mudline has been tide corrected to Columbia River Datum (CRD)

TABLE D-29

CHLORINATED BENZENES IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (feet)(a)	Sample Depth (cm)	1,2-Dichloro-benzene	1,4-Dichloro-benzene	1,2,4-Trichloro-benzene	Hexachloro-benzene
				ug/kg	ug/kg	ug/kg	ug/kg
SD-100	1/26/2006	-2.8	0-10	2.8 U	4.1 U	3.3 U	460 U
SD-101	1/26/2006	-4.3	0-10	3.2 U	4.7 U	3.7 U	520 U
SD-102	1/26/2006	-4.1	0-10	4.8 U	7.1 U	5.6 U	780 U
SD-103	1/26/2006	1.4	0-10	3.0 U	4.4 U	3.5 U	4.9 U
SD-104	1/26/2006	6.3	0-10	2.9 U	4.3 U	3.4 U	4.7 U
REF-EBB	1/26/2006	15.8	0-10	2.7 U	3.9 U	3.1 U	4.3 U
REF-YB	1/26/2006	0.7	0-10	2.4 U	3.4 U	2.7 U	3.8 U

TABLE D-30

PHTHALATE ESTERS

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (feet)(a)	Sample Depth (cm)	Dimethyl phthalate	Diethyl phthalate	Di-n-butyl phthalate	Butyl benzyl phthalate	Bis(2-ethylhexyl)-phthalate	Di-n-octyl phthalate
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
SD-100	1/26/2006	-2.8	0-10	3.9 U	7.6 U	560 U	3.3 U	140 J	28
SD-101	1/26/2006	-4.3	0-10	450 U	860 U	640 U	5.0 U	120 J	100
SD-102	1/26/2006	-4.1	0-10	670 U	1,300 U	960 U	5.6 U	160 J	4.5 U
SD-103	1/26/2006	1.4	0-10	4.2 U	8.1 U	6.0 U	3.5 U	18 J	2.8 U
SD-104	1/26/2006	6.3	0-10	4.0 U	7.8 U	5.8 U	3.4 U	7.6 J	2.7 U
REF-EBB	1/26/2006	15.8	0-10	3.7 U	7.2 U	5.4 U	3.1 U	6.1 J	2.5 U
REF-YB	1/26/2006	0.7	0-10	3.2 U	6.2 U	4.7 U	2.7 U	3.7 J	2.2 U

Note:
(a) Depth to mudline has been tide corrected to Columbia River Datum (CRD).

TABLE D-31

MISCELLANEOUS COMPOUNDS IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (feet)(a)	Sample Depth (cm)	Misc. Extractable Compounds (µg/kg)						Ionizable Organic Compounds (µg/kg)					
				(µg/L)						(µg/kg)					
				Dibenzo-furan	Hexachloro-butadiene	N-nitroso-diphenylamine	PCB Aroclors	Porewater Tri-n-butyltin	Phenol	2-Methyl-phenol	4-Methyl-phenol	2,4-Dimethyl-phenol	Pentachloro-phenol	Benzyl Alcohol	Benzoic Acid
SD-100	1/26/2006	-2.8	0-10	2.8 U	3.1 U	4.8 U	46	0.065 JD	15 J	7.4 U	6.3 U	12 U	1,900 U	8.0 U	210
SD-101	1/26/2006	-4.3	0-10	320 U	3.5 U	540 U	58	0.081 JD	11 J	8.4 U	22	14 U	2,100 U	9.1 U	240
SD-102	1/26/2006	-4.1	0-10	480 U	5.2 U	820 U	135	0.058 JD	19 J	13 U	25	21 U	3,200 U	14 U	360
SD-103	1/26/2006	1.4	0-10	16	3.3 U	5.1 U	17.5 J	0.028 JD	7.0 J	7.8 U	8.7 J	13 U	20 U	8.5 U	220
SD-104	1/26/2006	6.3	0-10	2.9 U	3.2 U	4.9 U	6.1 J	0.013 J	8.6 J	7.6 U	6.5 U	13 U	19 U	8.3 U	220
REF-EBB	1/26/2006	15.8	0-10	2.7 U	2.9 U	4.5 U	3.3 U	0.013 J	8.0 J	7.0 U	6.0 U	12 U	18 U	7.6 U	200
REF-YB	1/26/2006	0.7	0-10	2.4 U	2.5 U	3.9 U	23 J	0.010 J	5.5 J	6.1 U	5.2 U	9.8 U	16 U	6.6 U	170

TABLE D-31

MISCELLANEOUS COMPOUNDS IN SEDIMENT

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (feet)(a)	Sample Depth (cm)	c
SD-100	1/26/2006	-2.8	0-10	U
SD-101	1/26/2006	-4.3	0-10	U
SD-102	1/26/2006	-4.1	0-10	U
SD-103	1/26/2006	1.4	0-10	U
SD-104	1/26/2006	6.3	0-10	U
REF-EBB	1/26/2006	15.8	0-10	U
REF-YB	1/26/2006	0.7	0-10	U

TABLE D-32

SVOCs IN SURFACE WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (ft)(a)	LPAH Compounds (µg/L)						
			Naphthalene	2-Methyl-naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene
SW-100	1/26/2006	-2.8	0.0082 J	0.0039 J	0.0018 U	0.004 J	0.0034 J	0.0092 J	0.0030 J
SW-101	1/26/2006	-4.3	0.14	0.082	0.0058 J	0.0097 J	0.0076 J	0.012 J	0.0033 J
SW-102	1/26/2006	-4.1	0.21	0.14	0.0077 J	0.015 J	0.011 J	0.015 J	0.0050 J
SW-104	1/26/2006	1.4	0.017 J	0.0095 J	0.0018 U	0.0023 J	0.0026 U	0.0048 J	0.0011 U
SW-105	1/26/2006	6.3	0.0080 J	0.0027 J	0.0018 U	0.0027 J	0.0026 U	0.0051 J	0.0013 J

Locator ID	Sample Date	Approximate Water Depth (ft)(a)	HPAH Compounds (µg/L)						
			Fluoranthene	Pyrene	Benz(a)-anthracene	Chrysene	Benzo(b)-fluoranthene	Benzo(k)-fluoranthene	Benzo(a)-pyrene
SW-100	1/26/2006	-2.8	0.012 J	0.013 J	0.0021 U	0.0048 J	0.0032 J	0.0020 J	0.0016 U
SW-101	1/26/2006	-4.3	0.016 J	0.020 J	0.0021 U	0.0035 J	0.0029 J	0.0019 J	0.0017 J
SW-102	1/26/2006	-4.1	0.022	0.025	0.0021 U	0.0051 J	0.0020 J	0.0014 J	0.0016 U
SW-104	1/26/2006	1.4	0.0038 J	0.0030 J	0.0021 U	0.0013 U	0.0020 U	0.0014 U	0.0016 U
SW-105	1/26/2006	6.3	0.0049 J	0.0041 J	0.0021 U	0.0016 J	0.0020 U	0.0014 U	0.0016 U

Locator ID	Sample Date	Approximate Water Depth (ft)(a)			
			Indeno(1,2,3-c,d)-pyrene	Dibenz(a,h)-anthracene	Benzo(g,h,i)-perylene
SW-100	1/26/2006	-2.8	0.0021 U	0.0017 U	0.0037 U
SW-101	1/26/2006	-4.3	0.0030 J	0.0022 J	0.0037 U
SW-102	1/26/2006	-4.1	0.0021 U	0.0017 U	0.0037 U
SW-104	1/26/2006	1.4	0.0021 U	0.0017 U	0.0037 U
SW-105	1/26/2006	6.3	0.0021 U	0.0017 U	0.0037 U

Notes:
(a) Depth to mudline has been tide corrected to Columbia River Datum (CRD)

TABLE D-33

VOCs IN SURFACE WATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Approximate Water Depth (ft)(a)	Benzene ugL	Toluene ug/L	Ethylbenzene ug/L	Xylene ug/L
SW-100	1/26/2006	-2.8	0.14 U	0.12 J	0.13 U	0.22 U
SW-101	1/26/2006	-4.3	0.61	2.7	0.47 J	2.64
SW-102	1/26/2006	-4.1	0.89	3.9	0.68	3.7
SW-104	1/26/2006	1.4	0.14 U	0.12 J	0.13 U	0.22 U
SW-105	1/26/2006	6.3	0.14 U	0.11 U	0.13 U	0.22 U

Note:
(a) Depth to mudline has been tide corrected to Columbia River Datum (CRD)

TABLE D-34

GASOLINE and VOCs IN SOIL GAS

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	TPH-G (gasoline)	Benzene		Toluene		Ethylbenzene		o-Xylene		p/m-Xylene		1,3,5-Trimethyl benzene		1,2,4-Trimethyl benzene	
		ppmv	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3
SVP-01	10/8/2004	7570	31000	98900	1100	4150	320	1390	210	912	360	1564	<180	<885	<360	<1770
SVP-01	12/29/2004	6650	19000	60700	6600	24900	<1600	<6950	<1600	<6950	4000	17400	<1600	<7870	<3200	<15700
SVP-01	12/29/2004	6720	38000	121000	5800	21900	1700	7380	<1600	<6950	5200	22600	<1600	<7870	<3200	<15700
SVP-02	10/8/2004	1160	18000	57400	210	792	<180	<782	<180	<782	<360	<1560	<180	<885	<360	<1770
SVP-02	12/29/2004	1750	13000	41500	1100	4150	<280	<1220	<280	<1220	590	2560	<280	<1380	<560	<2760
SVP-03	10/8/2004	977	4000	12800	<350	<1320	<350	<1520	<350	<1520	<700	<3040	<350	<1720	<700	<3440
SVP-03	12/29/2004	888	2600	8310	<260	<980	<260	<1130	<260	<1130	<530	<2300	<260	<1280	<530	<2610
SVP-04	10/8/2004	338	<45	<144	<45	<170	<45	<195	<45	<195	<91	<395	<45	<221	<91	<447
SVP-04	12/29/2004	409	<46	<147	53	200	<46	<200	<46	<200	<91	<395	<46	<226	<91	<447

TABLE D-35

BIODEGRADATION INDICATORS IN SOIL GAS

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Oxygen	Nitrogen	Methane	Carbon Monoxide	Carbon Dioxide
	%	%	%	%	%
SVP-01	3.6	69.3	14.3	<0.1	12.8
SVP-01	1.8	70.0	17.0	NA	11.1
SVP-01	2.1	70.1	16.8	NA	11.0
SVP-02	2.9	76.0	6.0	<0.1	15.2
SVP-02	2.8	73.4	11.5	NA	12.3
SVP-03	2.7	67.0	16.4	<0.1	14.0
SVP-03	2.3	70.1	16	NA	11.6
SVP-04	2.6	59.8	26.0	<0.2	11.7
SVP-04	1.4	61.9	28.6	NA	8.1

TABLE D-36

VOCs IN SOIL GAS

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	TPH-G (gasoline)		Benzene		Toluene		Ethylbenzene	
			ppmv	mg/m3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3
SSP-01	SSP-01	7/22/2005	1900	7800	1900	6100	840	3200	<260	< 1100
SSP-01	SSP-01	7/22/2005	1500	6100	1600	5100	510	1900	<200	< 870
SSP-01	SSP-01	9/19/2006	870	3600	830	2700	<5.8	< 22.0	<5.8	< 25
SSP-02	SSP-02	9/20/2006	9.4	39	<0.76	< 2.4	<0.76	< 2.9	<0.76	< 3.3
SSP-03	SSP-03	7/22/2005	<4.5	<18	1.3	0.0	1.8	6.8	<0.75	< 3.3
SSP-03	SSP-03	9/20/2006	<4.2	<17	<0.70	< 2.2	1.1	4.2	<0.70	< 3.0
SSP-04	SSP-04	7/22/2005	<4.8	<20	4.7	15.0	1.3	4.9	<0.80	< 3.5
SSP-04	SSP-04	9/20/2006	<4.6	<19	<0.77	< 2.5	0.87	3.3	<0.77	< 3.4
SSP-05	SSP-05	9/20/2006	<4.6	<19	<0.76	< 2.4	7.3	28	<0.76	< 3.3
SSP-06	SSP-06	9/20/2006	660	2700	2300	7400	<30	< 110	<30	< 130
SSP-06	SSP-06	9/20/2006	630	2600	1700	5400	<31	< 120	<31	<130
SSP-07	SSP-07	9/20/2006	18	74	17	54	1.6	6.1	1.0	4.4
AA01	AA01	7/22/2005	<4.6	<19	<0.76	< 2.4	<0.76	< 2.9	<0.76	< 3.3
AA01	AA01	9/20/2006	<4.3	<18	<0.72	< 2.3	<0.72	< 2.7	<0.72	< 3.1

TABLE D-36

VOCs IN SOIL GAS

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample ID	Sample Date	o-Xylene		m/p-Xylene		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene	
			ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3	ppbv	ug/m^3
SSP-01	SSP-01	7/22/2005	270	1200	750	3300	<560	< 2800	<260	< 1300
SSP-01	SSP-01	7/22/2005	<200	< 870	470	2000	<400	< 2000	<200	< 990
SSP-01	SSP-01	9/19/2006	<5.8	< 25	39	170	<12	< 59	<5.8	< 29
SSP-02	SSP-02	9/20/2006	<0.76	< 3.3	<1.5	< 6.5	<1.5	< 7.4	<0.76	< 3.7
SSP-03	SSP-03	7/22/2005	<0.75	< 3.3	<1.5	< 6.5	14	69	2.6	13.0
SSP-03	SSP-03	9/20/2006	<0.70	< 3.0	1.7	7.4	3.4	17	0.81	4.0
SSP-04	SSP-04	7/22/2005	<0.80	< 3.5	<1.6	< 7.0	<1.6	< 7.9	<0.80	< 3.9
SSP-04	SSP-04	9/20/2006	<0.77	< 3.4	<1.5	< 6.5	<1.5	< 7.4	<0.77	< 3.8
SSP-05	SSP-05	9/20/2006	3.0	13.0	5.5	24	11	54	5.3	26
SSP-06	SSP-06	9/20/2006	<30	< 130	<60	< 260	300	1500	<30	< 150
SSP-06	SSP-06	9/20/2006	<31	< 130	74	320	370	1800	<31	< 150
SSP-07	SSP-07	9/20/2006	0.95	4.1	2.3	10	<1.4	< 6.9	<0.69	< 3.4
AA01	AA01	7/22/2005	<0.76	< 3.3	<1.5	< 6.5	<1.5	< 7.4	<0.76	< 3.7
AA01	AA01	9/20/2006	<0.72	< 3.1	<1.4	< 6.1	<1.4	< 6.9	<0.72	< 3.5

TABLE D-37

BIODEGRADATION INDICATORS IN SOIL GAS

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Sample Date	Oxygen	Methane	Carbon Dioxide
		%	%	%
SSP-01	7/22/2005	1.4	1.7	14.7
SSP-01	7/22/2005	1.4	1.7	14.7
SSP-01	9/19/2006	2.53	0.319	13.8
SSP-02	9/20/2006	5.36	<0.151	7.65
SSP-03	7/22/2005	8.0	<0.2	9.6
SSP-03	9/20/2006	10.9	<0.139	7.83
SSP-04	7/22/2005	2.1	<0.2	16.7
SSP-04	9/20/2006	9.63	<0.153	10.0
SSP-05	9/20/2006	13.7	<0.152	3.50
SSP-06	9/20/2006	3.86	1.42	10.4
SSP-06	9/20/2006	4.26	1.35	10.3
SSP-07	9/20/2006	4.09	<0.137	11.7
AA01	7/22/2005	21.9	<0.2	<0.2
AA01	9/20/2006	21.9	<0.143	<0.143

TABLE D-38

METHANE SCREENING

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Location	CH_4 (%)	LEL (%)	Comments
CH4-01	SVP-02 Protective Casing	0.0	0.0	Well casing full of water.
CH4-02	Storm Sewer Grate	0.0	0.0	
CH4-03	MW-4 Protective Casing	0.0	0.0	Casing half full of water.
CH4-04	SVP-01 Protective Casing	0.0	0.0	Well casing full of water.
CH4-05	Storm Sewer Grate	0.0	0.0	
CH4-06	MW-41 Protective Casing	0.0	0.0	Casing half full of water.
CH4-07	MW-3 Protective Casing	15.5 (max)	OR	Casing half full of water.
CH4-08	MW-9 Protective Casing	6.5	OR	Casing half full of water.
CH4-09	Under Building at Crawl Space	0.0	0.0	
CH4-10	SVP-04 Protective Casing	0.0	0.0	Casing half full of water.
CH4-11	Unknown Access Hole	0.0	0.0	
CH4-12	MW-34 Protective Casing	0.0	0.0	Casing half full of water.
CH4-13	Electrical Access	0.3	5.0	
CH4-14	SVP-03 Protective Casing	0.0	0.0	Well casing full of water.
CH4-15	Valve Box	14.1	OR	Well casing full of soil. No sign of valves.
CH4-16	Control Valve Box	0.0	0.0	
CH4-17	Sanitary Sewer	0.0	0.0	
CH4-18	Crawl Space Access	0.0	0.0	Dropped tubing ~ 4' down into crawl space.
CH4-19	Electrical Outlet Hole in Break Room	0.0	0.0	

Notes:
% - percent
CH_4 - methane
LEL - lower explosive limit
OR - out of range



APPENDIX E

Appendix E presents Ground-water levels and ground-water hydrographs, including surface water at the Pier 2 Monument. Included electronically (on a CD) is the information from the transducers installed in select monitoring wells and tidal lag calculations.

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-1(F)	10/13/2003	1142	1.50	31.71	np	23.44	0.00	8.27		
MW-1(F)	10/22/2003	820	0.62	31.71	np	23.87	0.00	7.84		
MW-1(F)	11/12/2003	1130	0.56	31.71	np	23.03	0.00	8.68		Iron
MW-1(F)	12/16/2003	1358	0.34	31.71	np	17.25	0.00	14.46		
MW-1(F)	1/11/2004	1628	4.26	31.71	np	16.33	0.00	15.38		Iron
MW-1(F)	1/15/2004	800	3.86	31.71	np	16.21	0.00	15.50		Iron
MW-1(F)	2/12/2004	945	-2.53	31.71	np	15.61	0.00	16.10		
MW-1(F)	3/18/2004	1355	1.23	31.71	np	17.82	0.00	13.89		
MW-1(F)	4/12/2004	1105	-2.84	31.71	np	18.20	0.00	13.51		
MW-1(F)	4/15/2004	730	1.78	31.71	np	18.36	0.00	13.35		
MW-1(F)	5/19/2004	1307	1.86	31.71	np	19.98	0.00	11.73		
MW-1(F)	6/16/2004	1246	1.78	31.71	np	20.76	0.00	10.95		
MW-1(F)	7/19/2004	1042	-2.94	31.71	np	21.82	0.00	9.89		
MW-1(F)	7/20/2004	1838	-0.48	31.71	np	21.90	0.00	9.81		
MW-1(F)	8/17/2004	1330	2.69	31.71	np	22.92	0.00	8.79		
MW-1(F)	9/16/2004	1320	3.67	31.71	np	23.18	0.00	8.53		
MW-1(M)	8/28/2002	1151	-1.99	14.53	9.61	10.08	0.47	4.86	18.27	
MW-1(M)	9/12/2002	1029	-2.84	14.53	9.34	9.88	0.54	5.12		
MW-1(M)	9/13/2002	1536	1.12	14.53	9.13	9.34	0.21	5.37		
MW-1(M)	10/11/2002	1141	-1.52	14.53	9.49	9.92	0.43	4.98	19.41	
MW-1(M)	11/15/2002	1118	3.51	14.53	7.11	7.19	0.08	7.41		
MW-1(M)	12/13/2002	841	4.39	14.53	6.54	6.57	0.03	7.99		
MW-1(M)	1/14/2003	1117	3.45	14.53	6.79	6.81	0.02	7.74		
MW-1(M)	2/12/2003	1126	2.12	14.53	7.55	7.56	0.01	6.98		
MW-1(M)	3/13/2003	1018	3.86	14.53	6.37	6.45	0.08	8.15		
MW-1(M)	4/14/2003	1147	4.17	14.53	np	6.57	0.00	7.96		Product seep visible
MW-1(M)	5/14/2003	1054	2.59	14.53	8.67	8.70	0.03	5.86		Product seep visible
MW-1(M)	6/17/2003	1431	2.05	14.53	9.19	9.25	0.06	5.33		Product seep visible
MW-1(M)	7/14/2003	1215	0.11	14.53	9.56	9.71	0.15	4.95		Product seep visible
MW-1(M)	8/13/2003	1350	3.00	14.53	9.31	9.32	0.01	5.22		Product seep visible
MW-1(M)	9/12/2003	1432	3.21	14.53	np	8.10	0.00	6.43		Product seep visible
MW-1(M)	10/13/2003	846	-2.52	14.53	9.31	9.33	0.02	5.22		Product seep visible
MW-1(M)	11/12/2003	1445	3.39	14.53	np	6.96	0.00	7.57		Product seep visible
MW-1(M)	12/16/2003	943	1.46	14.53	7.58	7.59	0.01	6.95		Product seep visible
MW-1(M)	1/11/2004	1350	4.01	14.53	np	6.58	0.00	7.95	Product globule	Product seep visible

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-1(M)	2/12/2004	1423	-2.19	14.53	8.64	8.65	0.01	5.89		Product seep visible
MW-1(M)	3/18/2004	930	3.90	14.53	np	7.60	0.00	6.93	Strong odor	Product seep slt visible
MW-1(M)	4/12/2004	902	0.43	14.53	7.56	7.57	0.01	6.97		Product seep visible
MW-1(M)	6/16/2004	1030	-0.35	14.53	9.39	9.41	0.01	5.13		Product seep slightly visible
MW-1(M)	7/19/2004	858	-5.63	14.53	9.00	9.03	0.01	5.51		Product seep slightly visible
MW-1(M)	8/17/2004	1020	-3.83	14.53	9.55	9.58	0.01	4.96		Product seep slightly visible
MW-1(M)	9/16/2004	932	-2.05	14.53	8.46	8.47	0.01	6.07		Product seep visible
MW-1(M)	4/11/2006	1314	1.94	14.53	np	6.73	0.00	7.80		
MW-1(M)	12/7/2006	1555	3.04	14.53	np	6.45	0.00	8.08		
MW-2(M)	8/28/2002	1122	-3.21	15.00	np	8.65	0.00	6.35	17.90	
MW-2(M)	9/12/2002	1015	-2.84	15.00	np	8.69	0.00	6.31		
MW-2(M)	9/13/2002	1520	1.12	15.00	np	9.70	0.00	5.30		
MW-2(M)	10/11/2002	1036	-2.45	15.00	np	8.95	0.00	6.05	19.03	
MW-2(M)	11/15/2002	930	2.73	15.00	np	8.55	0.00	6.45		
MW-2(M)	12/13/2002	814	4.26	15.00	np	8.08	0.00	6.92		
MW-2(M)	1/14/2003	1039	3.45	15.00	np	6.58	0.00	8.42		
MW-2(M)	2/12/2003	1042	2.12	15.00	np	6.47	0.00	8.53		
MW-2(M)	3/13/2003	940	3.86	15.00	np	5.91	0.00	9.09		
MW-2(M)	4/14/2003	1103	4.35	15.00	np	6.02	0.00	8.98		
MW-2(M)	5/14/2003	1008	1.15	15.00	np	6.91	0.00	8.09		
MW-2(M)	6/17/2003	1354	0.45	15.00	np	7.51	0.00	7.49		
MW-2(M)	7/14/2003	1132	0.11	15.00	np	8.02	0.00	6.98		
MW-2(M)	8/13/2003	1324	1.76	15.00	np	8.34	0.00	6.66		
MW-2(M)	9/12/2003	1318	2.26	15.00	np	8.58	0.00	6.42		
MW-2(M)	10/13/2003	852	-2.52	15.00	np	8.62	0.00	6.38		
MW-2(M)	10/15/2003	1300	2.26	15.00	np	8.62	0.00	6.38		
MW-2(M)	11/12/2003	1432	3.39	15.00	np	8.29	0.00	6.71		
MW-2(M)	12/16/2003	910	2.67	15.00	np	6.86	0.00	8.14		
MW-2(M)	1/11/2004	1348	4.01	15.00	np	6.27	0.00	8.73		
MW-2(M)	1/12/2004	1200	-0.09	15.00	np	6.39	0.00	8.61		
MW-2(M)	2/12/2004	1418	-2.19	15.00	np	6.14	0.00	8.86		
MW-2(M)	3/18/2004	1023	3.90	15.00	np	6.66	0.00	8.34		
MW-2(M)	4/12/2004	944	-1.26	15.00	np	6.98	0.00	8.02		
MW-2(M)	4/14/2004	1730	-2.47	15.00	np	7.07	0.00	7.93		
MW-2(M)	6/16/2004	1023	-1.94	15.00	np	7.77	0.00	7.23		
MW-2(M)	7/19/2004	834	-5.63	15.00	np	8.12	0.00	6.88		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-2(M)	7/22/2004	1757	2.45	15.00	np	8.18	0.00	6.82		
MW-2(M)	8/17/2004	1015	-3.83	15.00	np	8.52	0.00	6.48		
MW-2(M)	9/16/2004	928	-3.70	15.00	np	8.27	0.00	6.73		
MW-2(M)	4/11/2006	1256	1.97	15.00	np	6.68	0.00	8.32		
MW-2(M)	12/7/2006	1530	3.04	15.00	np	6.42	0.00	8.58		
MW-3(M)	8/28/2002	1345	1.05	15.42	9.45	10.17	0.72	5.87	17.51	
MW-3(M)	9/12/2002	1025	-2.84	15.42	9.42	10.12	0.70	5.90		
MW-3(M)	9/13/2002	1547	2.52	15.42	9.51	9.88	0.37	5.86		
MW-3(M)	10/11/2002	1155	-1.52	15.42	9.61	10.67	1.06	5.66	18.44	
MW-3(M)	11/15/2002	1134	3.51	15.42	9.07	9.70	0.63	6.26		
MW-3(M)	12/13/2002	906	4.39	15.42	8.68	9.02	0.34	6.69		
MW-3(M)	1/14/2003	1130	2.16	15.42	7.54	8.15	0.61	7.80		
MW-3(M)	2/12/2003	1142	0.66	15.42	7.61	8.18	0.57	7.73		
MW-3(M)	3/13/2003	1037	2.91	15.42	7.01	7.91	0.90	8.29		
MW-3(M)	4/14/2003	1207	4.17	15.42	7.06	8.29	1.23	8.19		
MW-3(M)	5/14/2003	1101	2.59	15.42	7.78	8.94	1.16	7.48		
MW-3(M)	6/17/2003	1500	2.05	15.42	8.42	9.15	0.73	6.90		
MW-3(M)	7/14/2003	1226	0.11	15.42	8.86	9.57	0.71	6.46		
MW-3(M)	8/13/2003	1403	3.00	15.42	9.06	9.64	0.58	6.28		
MW-3(M)	9/12/2003	1449	3.21	15.42	9.26	9.59	0.33	6.11		
MW-3(M)	10/13/2003	921	-2.52	15.42	9.35	9.79	0.44	6.01		
MW-3(M)	10/23/2003	939	2.62	15.42	9.15	9.60	0.45	6.21		
MW-3(M)	11/12/2003	1438	3.39	15.42	8.99	9.16	0.17	6.41		
MW-3(M)	12/16/2003	1003	1.46	15.42	7.76	8.21	0.45	7.60		
MW-3(M)	1/11/2004	1359	4.01	15.42	7.19	8.09	0.90	8.11		
MW-3(M)	2/12/2004	1437	-0.76	15.42	7.32	8.79	1.47	7.90		
MW-3(M)	3/18/2004	925	2.49	15.42	7.77	8.51	0.74	7.55		
MW-3(M)	4/12/2004	915	0.43	15.42	7.95	8.58	0.63	7.38		
MW-3(M)	5/19/2004	1054	-1.19	15.42	8.55	9.35	0.80	6.76		
MW-3(M)	6/16/2004	1045	-0.35	15.42	8.70	9.52	0.82	6.61		
MW-3(M)	7/19/2004	855	-5.63	15.42	8.94	9.53	0.59	6.40		
MW-3(M)	8/17/2004	1033	-1.98	15.42	9.30	9.83	0.53	6.05		
MW-3(M)	9/16/2004	944	-2.05	15.42	9.10	9.35	0.25	6.29		
MW-3(M)	10/19/2004	1304	2.05	15.42	8.70	8.80	0.10	6.71		
MW-3(M)	11/16/2004	1100	-0.12	15.42	8.46	8.67	0.21	6.93		
MW-3(M)	12/13/2004	913	-0.09	15.42	7.95	8.22	0.27	7.43		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-3(M)	3/29/2005	935	-3.67	15.42	8.00	8.34	0.34	7.37		
MW-3(M)	4/11/2006	1344	3.56	15.42	7.61	7.96	0.00	7.46		
MW-3(M)	12/4/2006	1435	0.44	15.42	np	7.58	0.00	7.84		Odors
MW-4(M)	8/28/2002	1302	-0.50	15.50	9.16	9.45	0.29	6.30	20.59	
MW-4(M)	9/12/2002	1042	-3.10	15.50	9.21	9.58	0.37	6.24		
MW-4(M)	9/13/2002	1544	1.12	15.50	9.26	9.39	0.13	6.22		
MW-4(M)	10/11/2002	1122	-2.45	15.50	9.46	9.77	0.31	6.00	21.11	
MW-4(M)	11/15/2002	1108	3.51	15.50	9.08	9.12	0.04	6.41		
MW-4(M)	12/13/2002	850	4.39	15.50	np	8.66	0.00	6.84		
MW-4(M)	1/14/2003	1106	3.45	15.50	np	7.18	0.00	8.32		
MW-4(M)	2/12/2003	1112	2.12	15.50	6.95	7.92	0.97	8.42		
MW-4(M)	3/13/2003	1007	3.86	15.50	6.46	7.49	1.03	8.91		
MW-4(M)	4/14/2003	1137	4.17	15.50	6.28	8.89	2.61	8.88		
MW-4(M)	5/14/2003	1126	2.59	15.50	7.18	9.48	2.30	8.02		
MW-4(M)	6/17/2003	1452	2.05	15.50	7.98	8.78	0.80	7.42		
MW-4(M)	7/14/2003	1232	1.80	15.50	8.53	8.79	0.26	6.94		
MW-4(M)	8/13/2003	1303	1.76	15.50	8.87	9.14	0.27	6.59		
MW-4(M)	9/12/2003	1445	3.21	15.50	9.07	9.28	0.21	6.40		
MW-4(M)	10/13/2003	914	-2.52	15.50	9.17	9.32	0.15	6.31		
MW-4(M)	10/23/2003	918	1.04	15.50	8.95	9.05	0.10	6.54		
MW-4(M)	11/12/2003	1501	3.39	15.50	np	8.85	0.00	6.65		
MW-4(M)	12/16/2003	918	2.67	15.50	np	7.45	0.00	8.05		
MW-4(M)	1/11/2004	1344	4.01	15.50	np	6.86	0.00	8.64		Product globules in bailer
MW-4(M)	2/12/2004	1408	-2.19	15.50	6.45	8.69	2.24	8.76		Odor
MW-4(M)	3/18/2004	1010	3.90	15.50	6.97	9.16	2.19	8.25		
MW-4(M)	4/12/2004	919	0.43	15.50	7.34	8.81	1.47	7.97		
MW-4(M)	5/19/2004	1055	-1.19	15.50	8.06	8.77	0.71	7.35		
MW-4(M)	6/16/2004	1013	-1.94	15.50	8.27	8.90	0.63	7.15		
MW-4(M)	7/19/2004	839	-5.63	15.50	8.66	8.78	0.12	6.82		
MW-4(M)	8/17/2004	1008	-3.83	15.50	9.04	9.27	0.23	6.43		
MW-4(M)	9/16/2004	922	-3.70	15.50	8.87	8.93	0.06	6.62		
MW-4(M)	10/19/2004	1256	2.05	15.50	np	8.50	0.00	7.00		
MW-4(M)	11/16/2004	1115	-0.12	15.50	np	8.14	0.00	7.36		
MW-4(M)	12/13/2004	907	-0.09	15.50	np	7.58	0.00	7.92		
MW-4(M)	3/29/2005	1010	-3.67	15.50	np	7.80	0.00	7.70		
MW-4(M)	4/11/2006	1251	1.97	15.50	7.00	8.74	1.74	8.27		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-4(M)	12/4/2006	1425	2.76	15.50	np	7.02	0.00	8.48		Odors
MW-5(M)	8/28/2002						0.00			
MW-6(M)	8/28/2002	1140	-1.99	13.78	np	7.71	0.00	6.07	18.47	
MW-6(M)	9/12/2002	926	-1.83	13.78	np	8.25	0.00	5.53		
MW-6(M)	9/13/2002	1515	1.12	13.78	np	7.71	0.00	6.07		
MW-6(M)	10/11/2002	1012	-2.51	13.78	np	7.92	0.00	5.86	19.06	
MW-6(M)	11/15/2002	921	2.73	13.78	np	7.41	0.00	6.37		
MW-6(M)	12/13/2002	802	4.26	13.78	np	8.85	0.00	4.93		
MW-6(M)	1/14/2003	1028	3.99	13.78	np	7.01	0.00	6.77		
MW-6(M)	2/12/2003	1031	2.12	13.78	np	6.61	0.00	7.17		
MW-6(M)	3/13/2003	930	4.37	13.78	np	6.93	0.00	6.85		
MW-6(M)	4/14/2003	1053	4.35	13.78	np	6.95	0.00	6.83		
MW-6(M)	5/14/2003	956	1.15	13.78	np	7.14	0.00	6.64		
MW-6(M)	6/17/2003	1402	0.45	13.78	np	7.12	0.00	6.66		
MW-6(M)	7/14/2003	1050	-1.90	13.78	np	7.47	0.00	6.31		
MW-6(M)	8/13/2003	1316	1.76	13.78	np	7.48	0.00	6.30		
MW-6(M)	9/12/2003	1312	2.26	13.78	np	7.56	0.00	6.22		
MW-6(M)	10/22/2003	1530	-2.21	13.78	np	7.00	0.00	6.78		
MW-6(M)	11/12/2003	1348	3.65	13.78	np	8.27	0.00	5.51		Pressure release
MW-6(M)	12/16/2003	857	2.67	13.78	np	5.86	0.00	7.92		
MW-6(M)	1/11/2004	1332	4.01	13.78	np	5.41	0.00	8.37		
MW-6(M)	1/12/2004	8.14	0.52	13.78	np	5.58	0.00	8.20		
MW-6(M)	2/12/2004	1328	-3.40	13.78	np	5.69	0.00	8.09		
MW-6(M)	3/18/2004	941	3.90	13.78	np	6.41	0.00	7.37		
MW-6(M)	4/12/2004	905	0.43	13.78	np	6.49	0.00	7.29		
MW-6(M)	4/13/2004	1045	-0.52	13.78	np	6.45	0.00	7.33		
MW-6(M)	5/19/2004	1135	0.49	13.78	np	6.95	0.00	6.83		
MW-6(M)	6/16/2004	948	-1.94	13.78	np	7.69	0.00	6.09		
MW-6(M)	7/19/2004	827	-5.20	13.78	np	7.45	0.00	6.33		
MW-6(M)	7/19/2004	1505	2.72	13.78	np	7.29	0.00	6.49		
MW-6(M)	8/17/2004	947	-3.83	13.78	np	7.82	0.00	5.96		
MW-6(M)	9/16/2004	857	-3.70	13.78	np	7.56	0.00	6.22		
MW-6(M)	4/11/2006	1305	1.97	13.78	np	6.37	0.00	7.41		
MW-6(M)	12/7/2006	1545	3.04	13.78	np	5.31	0.00	8.47		Odors

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-7(M)	8/28/2002	1102	-3.21	14.86	np	8.31	0.00	6.55	18.64	
MW-7(M)	9/12/2002	900	-1.83	14.86	np	8.36	0.00	6.50		
MW-7(M)	9/13/2002	1455	1.12	14.86	np	8.43	0.00	6.43		
MW-7(M)	10/11/2002	957	-2.51	14.86	np	8.58	0.00	6.28	18.93	
MW-7(M)	11/15/2002	914	2.73	14.86	np	8.57	0.00	6.29		
MW-7(M)	12/13/2002	754	4.26	14.86	np	7.70	0.00	7.16		
MW-7(M)	1/14/2003	1017	3.99	14.86	np	6.01	0.00	8.85		
MW-7(M)	2/12/2003	1021	3.06	14.86	np	5.96	0.00	8.90		
MW-7(M)	3/13/2003	920	4.37	14.86	np	5.30	0.00	9.56		
MW-7(M)	4/14/2003	1044	4.35	14.86	np	5.50	0.00	9.36		
MW-7(M)	5/14/2003	947	1.15	14.86	np	6.42	0.00	8.44		
MW-7(M)	6/17/2003	1347	0.45	14.86	np	7.13	0.00	7.73		
MW-7(M)	7/14/2003	1124	-1.90	14.86	np	7.66	0.00	7.20		
MW-7(M)	8/13/2003	1311	1.76	14.86	np	8.03	0.00	6.83		
MW-7(M)	9/12/2003	1307	2.26	14.86	np	8.27	0.00	6.59		
MW-7(M)	10/13/2003	852	-2.52	14.86	np	8.30	0.00	6.56		
MW-7(M)	10/13/2003	1547	2.54	14.86	np	8.27	0.00	6.59		
MW-7(M)	11/12/2003	1356	3.65	14.86	np	7.96	0.00	6.90		
MW-7(M)	12/16/2003	903	2.67	14.86	np	6.41	0.00	8.45		
MW-7(M)	1/11/2004	1335	4.01	14.86	np	5.77	0.00	9.09		
MW-7(M)	1/12/2004	940	-1.27	14.86	np	5.81	0.00	9.05		
MW-7(M)	2/12/2004	1333	-3.40	14.86	np	5.53	0.00	9.33		
MW-7(M)	3/18/2004	946	3.90	14.86	np	6.23	0.00	8.63		
MW-7(M)	4/12/2004	931	-1.26	14.86	np	6.51	0.00	8.35		
MW-7(M)	4/12/2004	1725	-1.44	14.86	np	6.63	0.00	8.23		
MW-7(M)	5/19/2004	1139	0.49	14.86	np	7.20	0.00	7.66		
MW-7(M)	6/16/2004	957	-1.94	14.86	np	7.42	0.00	7.44		
MW-7(M)	7/19/2004	829	-5.20	14.86	np	7.80	0.00	7.06		
MW-7(M)	7/19/2004	1550	2.50	14.86	np	7.81	0.00	7.05		
MW-7(M)	9/16/2004	903	-3.70	14.86	np	7.91	0.00	6.95		
MW-7(M)	4/11/2006	1301	1.97	14.86	np	6.23	0.00	8.63		
MW-8(M)	8/28/2002	1326	-0.50	15.23	9.69	11.08	1.39	5.37	18.89	
MW-8(M)	9/12/2002	1036	-3.10	15.23	9.60	10.85	1.25	5.48		
MW-8(M)	9/13/2002	1540	1.12	15.23	9.70	10.41	0.71	5.44		
MW-8(M)	10/11/2002	1211	-1.52	15.23	9.89	10.91	1.02	5.22	18.74	
MW-8(M)	11/15/2002	1126	3.51	15.23	8.57	9.26	0.69	6.58		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-8(M)	12/13/2002	859	4.39	15.23	8.04	8.81	0.77	7.10		
MW-8(M)	1/14/2003	1123	3.45	15.23	8.20	8.53	0.33	6.99		
MW-8(M)	2/12/2003	1133	0.66	15.23	8.27	8.75	0.48	6.90		
MW-8(M)	3/13/2003	1029	3.86	15.23	np	8.22	0.00	7.01		
MW-8(M)	4/14/2003	1158	4.17	15.23	np	7.72	0.00	7.51		
MW-8(M)	5/14/2003	1042	2.59	15.23	8.71	9.45	0.74	6.43		
MW-8(M)	6/17/2003	1440	2.05	15.23	8.91	9.77	0.86	6.22		
MW-8(M)	7/14/2003	1221	0.11	15.23	9.32	9.79	0.47	5.85		
MW-8(M)	8/13/2003	1357	3.00	15.23	9.36	9.63	0.27	5.84		
MW-8(M)	9/12/2003	1437	3.21	15.23	9.19	9.41	0.22	6.01		
MW-8(M)	10/13/2003	932	-1.55	15.23	9.57	9.92	0.35	5.62		
MW-8(M)	10/23/2003	836	1.04	15.23	9.43	9.86	0.43	5.75		
MW-8(M)	11/12/2003	1442	3.39	15.23	8.81	8.86	0.05	6.41		
MW-8(M)	12/16/2003	954	1.46	15.23	np	8.71	0.00	6.52		
MW-8(M)	1/11/2004	1355	4.01	15.23	np	7.55	0.00	7.68		Sheen in bailer
MW-8(M)	2/12/2004	1430	-2.19	15.23	8.37	8.48	0.11	6.85		
MW-8(M)	3/18/2004	913	2.49	15.23	8.44	8.53	0.09	6.78		
MW-8(M)	4/12/2004	907	0.43	15.23	8.43	8.46	0.03	6.80		
MW-8(M)	5/19/2004	1112	-1.19	15.23	9.04	9.20	0.16	6.17		
MW-8(M)	6/16/2004	1037	-0.35	15.23	9.20	9.30	0.10	6.02		
MW-8(M)	7/19/2004	859	-5.63	15.23	9.34	9.40	0.06	5.88		
MW-8(M)	8/17/2004	1024	-3.83	15.23	9.64	9.90	0.26	5.56		
MW-8(M)	9/16/2004	938	-2.05	15.23	9.41	9.43	0.02	5.82		
MW-8(M)	11/16/2004	944	-1.10	15.23	8.80	8.81	0.01	6.43		
MW-8(M)	12/13/2004	940	1.62	15.23	8.39	8.47	0.08	6.83		
MW-8(M)	3/29/2005	958	-3.67	15.23	8.67	8.75	0.08	6.55		
MW-8(M)	4/11/2006	1317	1.97	15.23	np	7.75	0.00	7.48		
MW-8(M)	12/4/2006	1445	0.44	15.23	np	8.08	0.00	7.15		Odors, iron staining
MW-9(M)	8/28/2002	1357	1.05	15.42	9.35	13.21	3.86	5.58	19.12	
MW-9(M)	9/12/2002	1049	-3.10	15.42	9.30	12.08	2.78	5.77		
MW-9(M)	9/13/2002	1552	1.12	15.42	9.61	10.21	0.60	5.73		
MW-9(M)	10/11/2002	1226	-1.52	15.42	9.75	10.92	1.17	5.52	19.47	
MW-9(M)	11/15/2002	1141	2.61	15.42	9.16	10.28	1.12	6.12		
MW-9(M)	12/13/2002	915	4.39	15.42	8.78	9.79	1.01	6.51		
MW-9(M)	1/14/2003	1137	2.16	15.42	7.76	8.55	0.79	7.56		
MW-9(M)	2/12/2003	1150	0.66	15.42	7.85	8.85	1.00	7.44		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-9(M)	3/13/2003	1045	2.91	15.42	7.35	8.21	0.86	7.96		
MW-9(M)	4/14/2003	1217	4.17	15.42	7.33	8.90	1.57	7.89		
MW-9(M)	5/15/2003	1116	2.59	15.42	8.11	10.30	2.19	7.03		
MW-9(M)	6/17/2003	1508	2.05	15.42	8.44	10.65	2.21	6.70		
MW-9(M)	7/14/2003	1241	1.80	15.42	9.00	9.94	0.94	6.30		
MW-9(M)	8/13/2003	1409	3.00	15.42	9.20	9.80	0.60	6.14		
MW-9(M)	9/12/2003	1456	3.21	15.42	9.38	9.90	0.52	5.97		
MW-9(M)	10/13/2003	939	-1.55	15.42	9.46	10.18	0.72	5.87		
MW-9(M)	10/23/2003	956	2.62	15.42	9.24	9.92	0.68	6.09		
MW-9(M)	11/12/2003	1456	3.39	15.42	9.15	9.49	0.34	6.23		
MW-9(M)	12/16/2003	1009	1.46	15.42	8.02	8.19	0.17	7.38		
MW-9(M)	1/11/2004	1407	4.01	15.42	7.52	7.66	0.14	7.88		
MW-9(M)	2/12/2004	1444	-0.76	15.42	7.76	8.69	0.93	7.54		
MW-9(M)	3/18/2004	919	2.49	15.42	8.07	8.93	0.86	7.24		
MW-9(M)	4/12/2004	912	0.43	15.42	8.21	8.83	0.62	7.13		
MW-9(M)	5/19/2004	1108	-1.19	15.42	8.73	9.83	1.10	6.55		
MW-9(M)	7/19/2004	905	-5.63	15.42	9.05	10.15	1.10	6.23		
MW-9(M)	8/17/2004	1029	-3.83	15.42	9.41	10.44	1.03	5.88		
MW-9(M)	9/16/2004	950	-2.05	15.42	9.22	9.88	0.66	6.12		
MW-9(M)	10/19/2004	1316	0.83	15.42	8.81	9.40	0.59	6.54		
MW-9(M)	11/16/2004	1050	-0.12	15.42	8.62	8.99	0.37	6.75		
MW-9(M)	12/13/2004	927	-0.09	15.42	8.15	8.44	0.29	7.23		
MW-9(M)	3/29/2005	945	3.67	15.42	8.27	8.60	0.33	7.11		
MW-9(M)	4/11/2006	1338	3.56	15.42	7.85	7.95	0.15	7.60		
MW-10(M)	8/28/2002	1430	1.05	16.32	np	11.23	0.00	5.09	19.43	
MW-10(M)	9/12/2002	1005	-2.84	16.32	np	11.10	0.00	5.22		
MW-10(M)	9/13/2002	1526	1.12	16.32	np	11.13	0.00	5.19		
MW-10(M)	10/11/2002	1055	-2.45	16.32	np	11.22	0.00	5.10	19.83	
MW-10(M)	11/15/2002	942	3.50	16.32	np	10.63	0.00	5.69		
MW-10(M)	12/13/2002	821	4.26	16.32	np	10.21	0.00	6.11		
MW-10(M)	1/14/2003	1048	3.45	16.32	np	9.62	0.00	6.70		
MW-10(M)	2/12/2003	1051	2.12	16.32	np	9.91	0.00	6.41		
MW-10(M)	3/13/2003	948	3.86	16.32	np	9.40	0.00	6.92		
MW-10(M)	4/14/2003	1118	4.35	16.32	np	9.10	0.00	7.22		
MW-10(M)	5/15/2003	1019	1.15	16.32	np	10.38	0.00	5.94		
MW-10(M)	6/17/2003	1413	0.45	16.32	np	10.41	0.00	5.91		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-10(M)	7/14/2003	1141	0.11	16.32	np	10.75	0.00	5.57		
MW-10(M)	8/13/2003	1333	3.00	16.32	np	10.77	0.00	5.55		
MW-10(M)	9/12/2003	1348	3.20	16.32	np	10.95	0.00	5.37		
MW-10(M)	10/13/2003	950	-1.55	16.32	np	10.88	0.00	5.44		
MW-10(M)	10/15/2003	1500	3.78	16.32	np	10.85	0.00	5.47		
MW-10(M)	11/12/2003	1334	3.65	16.32	np	10.67	0.00	5.65		
MW-10(M)	12/16/2003	1027	1.46	16.32	np	9.68	0.00	6.64		
MW-10(M)	1/11/2004	1410	4.01	16.32	np	9.32	0.00	7.00		
MW-10(M)	1/13/2004	1050	-1.76	16.32	np	9.55	0.00	6.77		
MW-10(M)	2/12/2004	1305	-3.40	16.32	np	9.95	0.00	6.37		
MW-10(M)	3/18/2004	856	2.49	16.32	np	10.17	0.00	6.15		Iron
MW-10(M)	4/12/2004	910	0.43	16.32	np	10.12	0.00	6.20		
MW-10(M)	4/13/2004	820	2.99	16.32	np	10.19	0.00	6.13		
MW-10(M)	5/19/2004	1124	-1.19	16.32	np	10.56	0.00	5.76		
MW-10(M)	6/16/2004	1110	-0.35	16.32	np	10.69	0.00	5.63		
MW-10(M)	7/19/2004	909	-5.63	16.32	np	10.68	0.00	5.64		
MW-10(M)	7/19/2004	1715	1.56	16.32	np	10.65	0.00	5.67		
MW-10(M)	8/17/2004	1048	-1.98	16.32	np	11.01	0.00	5.31		
MW-10(M)	9/16/2004	1007	-2.05	16.32	np	10.72	0.00	5.60		
MW-10(M)	11/16/2004	1045	-0.12	16.32	np	10.20	0.00	6.12		
MW-10(M)	4/11/2006	1330	3.56	16.32	np	9.68	0.00	6.64		Bugs interfere with reading
MW-10(M)	12/7/2006	1455	4.53	16.32	np	9.62	0.00	6.70		Many bugs on probe/GW
MW-11(M)	8/28/2002	1420	1.05	16.34	np	10.87	0.00	5.47	19.81	
MW-11(M)	9/12/2002	1000	-2.84	16.34	np	10.80	0.00	5.54		
MW-11(M)	9/13/2002	1531	1.12	16.34	np	10.83	0.00	5.51		
MW-11(M)	10/11/2002	1108	-2.45	16.34	np	11.01	0.00	5.33	19.83	
MW-11(M)	11/15/2002	949	3.50	16.34	np	10.37	0.00	5.97		
MW-11(M)	12/13/2002	829	4.26	16.34	np	9.94	0.00	6.40		
MW-11(M)	1/14/2003	1057	3.45	16.34	np	9.08	0.00	7.26		
MW-11(M)	2/12/2003	1058	2.12	16.34	np	9.25	0.00	7.09		
MW-11(M)	3/13/2003	958	3.86	16.34	np	8.71	0.00	7.63		
MW-11(M)	4/14/2003	1127	4.35	16.34	np	8.86	0.00	7.48		
MW-11(M)	5/15/2003	1028	1.15	16.34	np	9.79	0.00	6.55		
MW-11(M)	6/17/2003	1422	0.45	16.34	np	10.02	0.00	6.32		
MW-11(M)	7/14/2003	1149	0.11	16.34	np	10.39	0.00	5.95		
MW-11(M)	8/13/2003	1340	3.00	16.34	np	10.41	0.00	5.93		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-11(M)	9/12/2003	1353	3.20	16.34	np	10.60	0.00	5.74		
MW-11(M)	10/13/2003	956	-1.55	16.34	np	10.72	0.00	5.62		
MW-11(M)	10/15/2003	1720	2.70	16.34	np	10.41	0.00	5.93		
MW-11(M)	11/12/2003	1341	3.65	16.34	np	10.29	0.00	6.05		Slight Odor
MW-11(M)	12/16/2003	1019	1.46	16.34	np	9.27	0.00	7.07		
MW-11(M)	1/11/2004	1414	4.01	16.34	np	8.73	0.00	7.61		
MW-11(M)	1/13/2004	1235	-0.61	16.34	np	9.21	0.00	7.13		Slight Sheen
MW-11(M)	2/12/2004	1311	-3.40	16.34	np	9.43	0.00	6.91		
MW-11(M)	3/18/2004	903	2.49	16.34	np	9.48	0.00	6.86		
MW-11(M)	4/12/2004	948	-1.26	16.34	np	9.60	0.00	6.74		
MW-11(M)	4/13/2004	945	1.05	16.34	np	9.53	0.00	6.81		
MW-11(M)	5/19/2004	1120	-1.19	16.34	np	10.20	0.00	6.14		
MW-11(M)	6/16/2004	1124	-0.35	16.34	np	10.31	0.00	6.03		
MW-11(M)	7/19/2004	907	-5.63	16.34	np	10.49	0.00	5.85		
MW-11(M)	7/21/2004	1646	2.52	16.34	np	10.37	0.00	5.97		
MW-11(M)	8/17/2004	1059	-1.98	16.34	np	10.77	0.00	5.57		
MW-11(M)	9/16/2004	1000	-2.05	16.34	np	10.52	0.00	5.82		
MW-11(M)	4/11/2006	1334	3.56	16.34	np	9.06	0.00	7.28		
MW-11(M)	12/7/2006	1400	4.90	16.34	np	8.96	0.00	7.38		
MW-12(A)	10/13/2003	1152	1.50	30.58	np	20.00	0.00	10.58	25.38	
MW-12(A)	10/22/2003	955	3.54	30.58	np	19.61	0.00	10.97		
MW-12(A)	11/12/2003	1116	0.56	30.58	np	18.87	0.00	11.71		
MW-12(A)	12/16/2003	1345	0.34	30.58	np	15.44	0.00	15.14		
MW-12(A)	1/11/2004	1616	4.26	30.58	np	14.76	0.00	15.82		
MW-12(A)	1/15/2004	940	0.81	30.58	np	14.70	0.00	15.88		
MW-12(A)	2/12/2004	932	-2.53	30.58	np	14.26	0.00	16.32		
MW-12(A)	3/18/2004	1340	1.23	30.58	np	15.27	0.00	15.31		
MW-12(A)	4/12/2004	1208	-4.16	30.58	np	15.85	0.00	14.73		
MW-12(A)	4/16/2004	725	-1.63	30.58	np	16.00	0.00	14.58		
MW-12(A)	5/19/2004	1253	1.86	30.58	np	17.04	0.00	13.54		
MW-12(A)	6/16/2004	1233	1.78	30.58	np	17.61	0.00	12.97		
MW-12(A)	7/19/2004	1122	-2.94	30.58	np	18.15	0.00	12.43		
MW-12(A)	7/22/2004	655	-1.14	30.58	np	18.19	0.00	12.39		
MW-12(A)	8/17/2004	1320	1.62	30.58	np	18.64	0.00	11.94		
MW-12(A)	9/16/2004	1310	3.67	30.58	np	18.74	0.00	11.84		

TABLE E-1
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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-13(A)	10/13/2003	1157	1.50	31.36	np	22.68	0.00	8.68	26.42	
MW-13(A)	10/22/2003	1130	3.62	31.36	np	22.34	0.00	9.02		Odor
MW-13(A)	11/12/2003	1122	0.56	31.36	np	22.14	0.00	9.22		
MW-13(A)	12/16/2003	1352	0.34	31.36	np	18.41	0.00	12.95		
MW-13(A)	1/11/2004	1620	4.26	31.36	np	17.39	0.00	13.97		
MW-13(A)	1/15/2004	1130	-1.98	31.36	np	17.28	0.00	14.08		
MW-13(A)	2/12/2004	937	-2.53	31.36	np	16.71	0.00	14.65		
MW-13(A)	3/18/2004	1345	1.23	31.36	np	17.83	0.00	13.53		
MW-13(A)	4/12/2004	1210	-4.16	31.36	np	18.45	0.00	12.91		
MW-13(A)	4/16/2004	927	1.51	31.36	np	18.82	0.00	12.54		
MW-13(A)	5/19/2004	1255	1.86	31.36	np	19.85	0.00	11.51		
MW-13(A)	6/16/2004	1238	1.78	31.36	np	20.53	0.00	10.83		
MW-13(A)	7/19/2004	1124	-2.94	31.36	np	21.33	0.00	10.03		
MW-13(A)	7/22/2004	818	-2.86	31.36	np	21.40	0.00	9.96		
MW-13(A)	8/17/2004	1324	1.62	31.36	np	21.96	0.00	9.40		
MW-13(A)	9/16/2004	1314	3.67	31.36	np	21.92	0.00	9.44		
MW-14(A)	10/13/2003	1203	1.50	23.39	np	15.06	0.00	8.33	18.81	
MW-14(A)	10/21/2003	1645	-1.50	23.39	np	14.70	0.00	8.69		
MW-14(A)	11/12/2003	1056	0.56	23.39	np	14.55	0.00	8.84		Iron
MW-14(A)	12/16/2003	1336	0.34	23.39	np	12.01	0.00	11.38		
MW-14(A)	1/11/2004	1624	4.26	23.39	np	11.47	0.00	11.92		
MW-14(A)	1/15/2004	1250	-2.74	23.39	np	11.41	0.00	11.98		Iron
MW-14(A)	2/12/2004	1106	-3.59	23.39	np	11.07	0.00	12.32		
MW-14(A)	3/18/2004	1226	4.37	23.39	np	11.57	0.00	11.82		
MW-14(A)	4/12/2004	1205	-4.16	23.39	np	11.88	0.00	11.51		
MW-14(A)	4/16/2004	815	-0.11	23.39	np	11.97	0.00	11.42		
MW-14(A)	5/19/2004	1250	1.86	23.39	np	12.50	0.00	10.89		
MW-14(A)	6/16/2004	1226	1.01	23.39	np	12.73	0.00	10.66		
MW-14(A)	7/19/2004	1122	-2.94	23.39	np	13.28	0.00	10.11		
MW-14(A)	7/23/2004	757	-1.63	23.39	np	13.34	0.00	10.05		
MW-14(A)	8/17/2004	1317	1.62	23.39	np	14.21	0.00	9.18		
MW-14(A)	9/16/2004	1304	3.67	23.39	np	13.83	0.00	9.56		
MW-15(A)	10/13/2003	1116	-0.10	16.95	np	9.08	0.00	7.87	14.81	
MW-15(A)	10/20/2003	1340	0.06	16.95	np	8.87	0.00	8.08		
MW-15(A)	11/12/2003	1026	-0.65	16.95	np	8.58	0.00	8.37		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-15(A)	12/16/2003	1239	-0.30	16.95	np	6.35	0.00	10.60		
MW-15(A)	1/11/2004	1529	4.58	16.95	5.77	5.80	0.03	11.18		
MW-15(A)	2/12/2004	1058	-3.59	16.95	5.41	5.90	0.49	11.47		Strong Odor
MW-15(A)	3/18/2004	1230	4.37	16.95	6.10	8.04	1.94	10.56		
MW-15(A)	4/12/2004	1153	-4.16	16.95	6.50	7.26	0.76	10.34		
MW-15(A)	5/19/2004	1403	2.56	16.95	7.25	7.95	0.70	9.60		Very thick dark strong odor
MW-15(A)	6/16/2004	1351	1.80	16.95	7.51	8.28	0.77	9.32		Very strong odor
MW-15(A)	7/19/2004	1131	-1.08	16.95	8.04	8.84	0.80	8.79		Very strong odor
MW-15(A)	8/17/2004	1305	1.62	16.95	8.46	9.27	0.81	8.37		Very strong odor
MW-15(A)	9/16/2004	1255	3.67	16.95	8.40	8.89	0.49	8.48		
MW-15(A)	10/19/2004	1425	3.44	16.95	7.65	8.06	0.41	9.24		
MW-15(A)	3/29/2005	1128	-3.06	16.95	6.45	6.80	0.35	10.45		
MW-15(A)	12/4/2006	1515	0.44	16.95	np	6.21	0.00	10.74		Probe odors and emulsion
MW-16(A)	10/13/2003	1111	-0.10	16.48	np	8.59	0.00	7.89	15.21	
MW-16(A)	10/20/2003	1510	-0.31	16.48	np	8.39	0.00	8.09		
MW-16(A)	11/12/2003	1035	0.56	16.48	np	8.18	0.00	8.30		
MW-16(A)	12/16/2003	1224	-0.19	16.48	np	6.51	0.00	9.97		possible sheen
MW-16(A)	1/11/2004	1523	4.58	16.48	np	6.05	0.00	10.43		Iron
MW-16(A)	1/19/2004	930	5.44	16.48	np	6.04	0.00	10.44		
MW-16(A)	2/12/2004	1110	-3.59	16.48	np	5.81	0.00	10.67		
MW-16(A)	3/18/2004	1221	4.37	16.48	np	6.33	0.00	10.15		
MW-16(A)	4/12/2004	1158	-4.16	16.48	np	6.63	0.00	9.85		
MW-16(A)	4/19/2004	850	2.95	16.48	np	6.68	0.00	9.80		
MW-16(A)	5/19/2004	1357	2.56	16.48	np	7.20	0.00	9.28		
MW-16(A)	6/16/2004	1400	1.80	16.48	np	7.37	0.00	9.11		
MW-16(A)	7/19/2004	1021	-4.71	16.48	np	7.78	0.00	8.70		
MW-16(A)	7/22/2004	1515	1.37	16.48	np	7.81	0.00	8.67		
MW-16(A)	8/17/2004	1312	1.62	16.48	np	8.13	0.00	8.35		
MW-16(A)	9/16/2004	1300	3.67	16.48	np	8.04	0.00	8.44		
MW-17(A)	10/13/2003	1125	-0.10	15.69	np	8.37	0.00	7.32	15.35	
MW-17(A)	10/17/2003	1240	1.23	15.69	np	8.31	0.00	7.38		
MW-17(A)	11/12/2003	1020	-0.65	15.69	np	7.88	0.00	7.81		
MW-17(A)	12/16/2003	1245	-0.30	15.69	np	5.70	0.00	9.99		
MW-17(A)	1/11/2004	1540	4.26	15.69	np	5.00	0.00	10.69		
MW-17(A)	1/19/2004	1130	4.20	15.69	np	5.00	0.00	10.69		

TABLE E-1
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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-17(A)	2/12/2004	1047	-3.59	15.69	np	4.66	0.00	11.03		
MW-17(A)	3/18/2004	1245	3.10	15.69	np	5.43	0.00	10.26		
MW-17(A)	4/12/2004	1145	-4.16	15.69	np	5.88	0.00	9.81		
MW-17(A)	4/15/2004	1055	3.34	15.69	np	6.00	0.00	9.69		
MW-17(A)	5/19/2004	1351	2.56	15.69	np	6.66	0.00	9.03		
MW-17(A)	6/16/2004	1338	1.80	15.69	np	6.95	0.00	8.74		
MW-17(A)	7/19/2004	1026	-4.71	15.69	np	7.45	0.00	8.24		
MW-17(A)	7/22/2004	1636	2.92	15.69	np	7.50	0.00	8.19		
MW-17(A)	8/17/2004	1254	1.62	15.69	np	7.86	0.00	7.83		
MW-17(A)	9/16/2004	1245	3.67	15.69	np	7.79	0.00	7.90		
MW-18(A)	10/13/2003	1117	-0.10	16.23	np	8.85	0.00	7.38	15.36	
MW-18(A)	10/21/2003	1300	0.89	16.23	np	8.58	0.00	7.65		
MW-18(A)	11/12/2003	1042	0.56	16.23	np	8.39	0.00	7.84		Possible Sheen
MW-18(A)	12/16/2003	1234	-0.30	16.23	np	6.38	0.00	9.85		
MW-18(A)	1/19/2004	1040	5.35	16.23	np	5.74	0.00	10.49		
MW-18(A)	2/12/2004	1052	-3.59	16.23	np	5.42	0.00	10.81		
MW-18(A)	3/18/2004	1240	3.10	16.23	np	6.10	0.00	10.13		
MW-18(A)	4/12/2004	1148	-4.16	16.23	np	6.55	0.00	9.68		
MW-18(A)	4/15/2004	1000	3.54	16.23	np	6.62	0.00	9.61		
MW-18(A)	5/19/2004	1355	2.56	16.23	np	7.27	0.00	8.96		
MW-18(A)	6/16/2004	1346	1.80	16.23	np	7.50	0.00	8.73		
MW-18(A)	7/19/2004	1025	-4.71	16.23	np	7.98	0.00	8.25		
MW-18(A)	7/21/2004	1535	2.65	16.23	np	8.00	0.00	8.23		
MW-18(A)	8/17/2004	1258	1.62	16.23	np	8.36	0.00	7.87		
MW-18(A)	9/16/2004	1251	3.67	16.23	np	8.29	0.00	7.94		
MW-19(A)	10/13/2003	1049	-0.10	17.98	np	10.59	0.00	7.39	15.30	
MW-19(A)	10/20/2003	1050	2.89	17.98	np	10.43	0.00	7.55		
MW-19(A)	11/12/2003	1145	193.00	17.98	np	10.18	0.00	7.80		
MW-19(A)	1/13/2004	1515	1.91	17.98	np	7.99	0.00	9.99		
MW-19(A)	2/12/2004	1122	-3.59	17.98	np	7.66	0.00	10.32		
MW-19(A)	3/18/2004	1210	4.37	17.98	np	8.26	0.00	9.72		
MW-19(A)	4/12/2004	1133	-4.16	17.98	np	8.60	0.00	9.38		
MW-19(A)	4/15/2004	1545	-3.71	17.98	np	8.67	0.00	9.31		
MW-19(A)	5/19/2004	1243	1.86	17.98	np	9.18	0.00	8.80		
MW-19(A)	7/19/2004	952	-4.71	17.98	np	9.80	0.00	8.18		

TABLE E-1
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Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-19(A)	7/20/2004	1343	1.28	17.98	np	9.85	0.00	8.13		
MW-19(A)	8/17/2004	1152	-0.05	17.98	np	10.15	0.00	7.83		
MW-19(A)	9/16/2004	1042	-0.04	17.98	np	10.07	0.00	7.91		
MW-20(A)	10/13/2003	1047	-0.10	17.04	np	10.03	0.00	7.01	15.39	
MW-20(A)	10/20/2003	1210	1.90	17.04	np	9.88	0.00	7.16		
MW-20(A)	11/12/2003	1150	1.93	17.04	np	9.65	0.00	7.39		Iron
MW-20(A)	12/16/2003	1410	0.34	17.04	np	8.03	0.00	9.01		Iron
MW-20(A)	1/11/2004	1510	4.58	17.04	np	7.41	0.00	9.63		
MW-20(A)	1/13/2004	1630	3.15	17.04	np	7.44	0.00	9.60		Iron
MW-20(A)	2/12/2004	1126	-3.59	17.04	np	7.11	0.00	9.93		
MW-20(A)	3/18/2004	1215	4.37	17.04	np	7.70	0.00	9.34		Iron
MW-20(A)	4/12/2004	1128	-2.84	17.04	np	8.06	0.00	8.98		
MW-20(A)	4/15/2004	1642	-4.14	17.04	np	8.13	0.00	8.91		Iron
MW-20(A)	5/19/2004	1246	1.86	17.04	np	8.63	0.00	8.41		
MW-20(A)	6/16/2004	1415	1.80	17.04	np	8.86	0.00	8.18		
MW-20(A)	7/19/2004	947	-4.71	17.04	np	9.27	0.00	7.77		
MW-20(A)	7/20/2004	1444	2.36	17.04	np	9.30	0.00	7.74		
MW-20(A)	8/17/2004	1156	-0.05	17.04	np	9.61	0.00	7.43		
MW-20(A)	9/16/2004	1048	-0.04	17.04	np	9.82	0.00	7.22		
MW-21(A)	10/13/2003	1035	-0.10	15.90	np	9.22	0.00	6.68	15.35	
MW-21(A)	10/20/2003	940	3.26	15.90	np	9.11	0.00	6.79		
MW-21(A)	11/12/2003	1156	1.93	15.90	np	8.91	0.00	6.99		
MW-21(A)	12/16/2003	1216	-0.19	15.90	np	7.49	0.00	8.41		Iron
MW-21(A)	1/11/2004	1503	4.58	15.90	np	6.90	0.00	9.00		
MW-21(A)	1/13/2004	1355	0.66	15.90	np	6.89	0.00	9.01		
MW-21(A)	2/12/2004	1135	-3.92	15.90	np	6.66	0.00	9.24		
MW-21(A)	3/18/2004	1202	4.37	15.90	np	7.17	0.00	8.73		
MW-21(A)	4/12/2004	1138	-4.16	15.90	np	7.49	0.00	8.41		
MW-21(A)	4/16/2004	1115	3.53	15.90	np	7.58	0.00	8.32		
MW-21(A)	5/19/2004	1237	1.86	15.90	np	7.99	0.00	7.91		
MW-21(A)	6/16/2004	1219	1.01	15.90	np	8.21	0.00	7.69		
MW-21(A)	7/19/2004	942	-4.71	15.90	np	8.57	0.00	7.33		
MW-21(A)	7/20/2004	1533	2.73	15.90	np	8.60	0.00	7.30		
MW-21(A)	8/17/2004	1201	-0.05	15.90	np	8.90	0.00	7.00		
MW-21(A)	9/16/2004	1037	-0.04	15.90	np	8.82	0.00	7.08		

TABLE E-1
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Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-22(A)	10/13/2003	1037	-0.10	16.13	np	9.24	0.00	6.89	15.08	
MW-22(A)	10/16/2003	940	0.09	16.13	np	9.21	0.00	6.92		
MW-22(A)	11/12/2003	1203	1.93	16.13	np	8.80	0.00	7.33		
MW-22(A)	12/16/2003	1048	0.48	16.13	np	6.91	0.00	9.22		
MW-22(A)	1/19/2004	815	3.22	16.13	np	6.15	0.00	9.98		
MW-22(A)	3/18/2004	1157	4.37	16.13	np	6.55	0.00	9.58		
MW-22(A)	4/12/2004	1120	-2.84	16.13	np	6.97	0.00	9.16		
MW-22(A)	4/15/2004	1435	-2.62	16.13	np	7.07	0.00	9.06		
MW-22(A)	5/19/2004	1233	1.86	16.13	np	7.66	0.00	8.47		
MW-22(A)	6/16/2004	1210	1.01	16.13	np	7.93	0.00	8.20		
MW-22(A)	7/19/2004	1008	-4.71	16.13	np	8.38	0.00	7.75		
MW-22(A)	7/20/2004	1111	-3.82	16.13	np	8.40	0.00	7.73		
MW-22(A)	8/17/2004	1147	-0.05	16.13	np	8.78	0.00	7.35		
MW-22(A)	9/16/2004	1032	-0.04	16.13	np	8.74	0.00	7.39		
MW-23(A)	10/13/2003	1137	1.50	16.22	np	8.86	0.00	7.36	14.93	
MW-23(A)	10/20/2003	1630	0.49	16.22	np	8.71	0.00	7.51		
MW-23(A)	11/12/2003	1013	-0.65	16.22	np	8.30	0.00	7.92		
MW-23(A)	12/16/2003	1250	-0.30	16.22	np	5.36	0.00	10.86		
MW-23(A)	1/11/2004	1543	4.26	16.22	np	4.57	0.00	11.65		
MW-23(A)	1/15/2004	1745	1.31	16.22	np	4.47	0.00	11.75		
MW-23(A)	2/12/2004	1041	-3.59	16.22	np	4.09	0.00	12.13		
MW-23(A)	3/18/2004	1249	3.10	16.22	np	5.13	0.00	11.09		
MW-23(A)	4/12/2004	1112	-2.84	16.22	np	5.69	0.00	10.53		
MW-23(A)	4/15/2004	1201	2.17	16.22	np	5.80	0.00	10.42		
MW-23(A)	5/19/2004	1349	2.56	16.22	np	6.78	0.00	9.44		
MW-23(A)	6/16/2004	1331	1.80	16.22	np	7.18	0.00	9.04		
MW-23(A)	7/19/2004	1032	-2.94	16.22	np	7.80	0.00	8.42		
MW-23(A)	7/20/2004	1645	2.19	16.22	np	7.83	0.00	8.39		
MW-23(A)	8/17/2004	1239	1.62	16.22	np	8.29	0.00	7.93		
MW-23(A)	9/16/2004	1232	3.67	16.22	np	8.20	0.00	8.02		
MW-24(A)	10/13/2003	1154	1.50	16.56	np	9.15	0.00	7.41	14.87	
MW-24(A)	10/21/2003	1430	-1.43	16.56	np	8.52	0.00	8.04		
MW-24(A)	11/12/2003	942	-0.65	16.56	np	8.17	0.00	8.39		
MW-24(A)	12/16/2003	1304	-0.30	16.56	np	4.45	0.00	12.11		

TABLE E-1
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Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-24(A)	1/11/2004	1547	4.26	16.56	np	3.96	0.00	12.60		
MW-24(A)	1/15/2004	1630	0.29	16.56	np	3.85	0.00	12.71		
MW-24(A)	2/12/2004	1022	-2.53	16.56	np	4.05	0.00	12.51		Iron
MW-24(A)	3/18/2004	1301	3.10	16.56	np	4.96	0.00	11.60		
MW-24(A)	4/12/2004	1103	-2.84	16.56	np	5.65	0.00	10.91		
MW-24(A)	4/14/2004	1500	-3.92	16.56	np	5.78	0.00	10.78		
MW-24(A)	5/19/2004	1338	2.56	16.56	np	6.94	0.00	9.62		
MW-24(A)	6/16/2004	1312	1.78	16.56	np	7.08	0.00	9.48		
MW-24(A)	7/19/2004	1039	-2.94	16.56	np	7.97	0.00	8.59		
MW-24(A)	7/22/2004	1222	-3.63	16.56	np	8.03	0.00	8.53		
MW-24(A)	8/17/2004	1230	1.62	16.56	np	8.49	0.00	8.07		
MW-24(A)	9/16/2004	1221	2.05	16.56	np	8.02	0.00	8.54		
MW-26(A)	10/13/2003	1150	1.50	16.27	np	9.14	0.00	7.13	15.35	
MW-26(A)	10/17/2003	1600	3.29	16.27	np	9.09	0.00	7.18		
MW-26(A)	11/12/2003	947	-0.65	16.27	np	8.46	0.00	7.81		
MW-26(A)	12/16/2003	1259	-0.30	16.27	np	5.51	0.00	10.76		
MW-26(A)	1/11/2004	1548	4.26	16.27	np	4.69	0.00	11.58		
MW-26(A)	1/15/2004	1600	-0.91	16.27	np	4.65	0.00	11.62		
MW-26(A)	2/12/2004	1026	-2.53	16.27	np	4.43	0.00	11.84		
MW-26(A)	3/18/2004	1305	3.10	16.27	np	5.01	0.00	11.26		
MW-26(A)	4/12/2004	1100	-2.84	16.27	np	5.91	0.00	10.36		
MW-26(A)	4/14/2004	1414	-2.64	16.27	np	6.00	0.00	10.27		
MW-26(A)	5/19/2004	1330	2.56	16.27	np	6.95	0.00	9.32		
MW-26(A)	6/16/2004	1316	1.78	16.27	np	7.31	0.00	8.96		
MW-26(A)	7/19/2004	1037	-2.94	16.27	np	7.98	0.00	8.29		
MW-26(A)	7/12/2004	1140	-3.63	16.27	np	8.02	0.00	8.25		
MW-26(A)	8/17/2004	1226	-0.05	16.27	np	8.50	0.00	7.77		
MW-26(A)	9/16/2004	1217	2.05	16.27	np	8.43	0.00	7.84		
MW-27(A)	10/13/2003	1213	1.50	16.36	np	9.26	0.00	7.10	15.24	
MW-27(A)	10/21/2003	905	2.61	16.36	np	9.02	0.00	7.34		
MW-27(A)	11/12/2003	1000	-0.65	16.36	np	8.54	0.00	7.82		Slight Odor
MW-27(A)	12/16/2003	1329	-0.30	16.36	np	5.74	0.00	10.62		
MW-27(A)	1/11/2004	1556	4.26	16.36	np	4.96	0.00	11.40		
MW-27(A)	1/14/2004	1625	1.19	16.36	np	4.95	0.00	11.41		
MW-27(A)	2/12/2004	1007	-2.53	16.36	np	4.72	0.00	11.64		

TABLE E-1
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Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-27(A)	4/12/2004	1049	-2.84	16.36	np	6.05	0.00	10.31		
MW-27(A)	4/14/2004	1300	-1.18	16.36	np	6.15	0.00	10.21		
MW-27(A)	5/19/2004	1323	1.86	16.36	np	7.05	0.00	9.31		
MW-27(A)	7/19/2004	1048	-2.94	16.36	np	8.05	0.00	8.31		
MW-27(A)	7/22/2004	1100	-4.85	16.36	np	8.11	0.00	8.25		
MW-28(A)	10/13/2003	1130	1.50	16.13	np	9.05	0.00	7.08	15.36	
MW-28(A)	10/17/2003	1415	1.92	16.13	np	9.01	0.00	7.12		
MW-28(A)	11/12/2003	1007	-0.65	16.13	np	8.51	0.00	7.62		Slight Odor
MW-28(A)	12/16/2003	1254	-0.30	16.13	np	6.12	0.00	10.01		Sheen on Cap
MW-28(A)	1/11/2004	1550	4.26	16.13	np	5.31	0.00	10.82		
MW-28(A)	1/19/2004	1450	-1.95	16.13	np	5.25	0.00	10.88		
MW-28(A)	2/12/2004	1033	-3.59	16.13	np	4.91	0.00	11.22		
MW-28(A)	3/18/2004	1255	3.10	16.13	np	5.77	0.00	10.36		
MW-28(A)	4/12/2004	1110	-2.84	16.13	np	6.25	0.00	9.88		
MW-28(A)	4/14/2004	1612	-4.32	16.13	np	6.31	0.00	9.82		
MW-28(A)	5/19/2004	1346	2.56	16.13	np	7.12	0.00	9.01		
MW-28(A)	6/16/2004	1326	1.78	16.13	np	7.46	0.00	8.67		
MW-28(A)	7/19/2004	1029	-4.71	16.13	np	8.02	0.00	8.11		
MW-28(A)	7/23/2004	905	-3.10	16.13	np	8.10	0.00	8.03		
MW-28(A)	8/17/2004	1235	1.62	16.13	np	8.48	0.00	7.65		
MW-28(A)	9/16/2004	1227	2.05	16.13	np	8.46	0.00	7.67		
MW-29(A)	10/13/2003	1202	1.50	15.84	np	9.88	0.00	5.96	15.37	
MW-29(A)	10/21/2003	1550	-1.89	15.84	np	8.69	0.00	7.15		
MW-29(A)	11/12/2003	934	-0.65	15.84	np	8.33	0.00	7.51		Odor
MW-29(A)	12/16/2003	1309	-0.30	15.84	np	6.02	0.00	9.82		
MW-29(A)	1/11/2004	1552	4.26	15.84	np	5.21	0.00	10.63		
MW-29(A)	1/19/2004	1600	-3.67	15.84	np	5.13	0.00	10.71		
MW-29(A)	2/12/2004	1014	-2.53	15.84	np	4.80	0.00	11.04		
MW-29(A)	3/18/2004	1310	3.10	15.84	np	5.61	0.00	10.23		
MW-29(A)	4/12/2004	1054	-2.84	15.84	np	6.13	0.00	9.71		
MW-29(A)	4/16/2004	1222	3.28	15.84	np	6.25	0.00	9.59		
MW-29(A)	5/19/2004	1330	2.56	15.84	np	6.98	0.00	8.86		
MW-29(A)	6/16/2004	1307	1.78	15.84	np	7.30	0.00	8.54		
MW-29(A)	7/19/2004	1035	-2.94	15.84	np	7.87	0.00	7.97		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-29(A)	7/22/2004	1301	-2.04	15.84	np	7.91	0.00	7.93		
MW-29(A)	8/17/2004	1220	-0.05	15.84	np	8.31	0.00	7.53		Strong Odor
MW-29(A)	9/16/2004	1213	2.05	15.84	np	8.31	0.00	7.53		
MW-30(A)	10/13/2003	1000	-1.55	16.67	np	9.91	0.00	6.76	15.11	
MW-30(A)	10/16/2003	820	1.18	16.67	np	9.90	0.00	6.77		
MW-30(A)	11/12/2003	1221	1.93	16.67	np	9.42	0.00	7.25		Possible slight odor
MW-30(A)	12/16/2003	1201	-0.19	16.67	np	7.49	0.00	9.18		
MW-30(A)	1/11/2004	1452	4.58	16.67	np	6.72	0.00	9.95		
MW-30(A)	1/16/2004	1400	-3.33	16.67	np	6.65	0.00	10.02		
MW-30(A)	2/12/2004	1150	-3.92	16.67	np	6.34	0.00	10.33		
MW-30(A)	4/12/2004	1008	-1.26	16.67	np	7.49	0.00	9.18		
MW-30(A)	4/13/2004	1710	-2.75	16.67	np	7.52	0.00	9.15		
MW-30(A)	5/19/2004	1223	0.49	16.67	np	8.22	0.00	8.45		
MW-30(A)	6/16/2004	1156	1.01	16.67	np	8.55	0.00	8.12		
MW-30(A)	7/19/2004	933	-4.71	16.67	np	9.03	0.00	7.64		
MW-30(A)	7/20/2004	921	-5.40	16.67	np	9.04	0.00	7.63		
MW-30(A)	8/17/2004	1139	-0.05	16.67	np	9.45	0.00	7.22		
MW-30(A)	9/16/2004	1100	-0.04	16.67	np	9.45	0.00	7.22		
MW-31(A)	10/13/2003	950	-1.55	16.23	np	9.81	0.00	6.42	15.31	
MW-31(A)	10/16/2003	1350	2.65	16.23	np	9.77	0.00	6.46		
MW-31(A)	11/12/2003	1210	1.93	16.23	np	9.48	0.00	6.75		Iron
MW-31(A)	12/16/2003	1207	-0.19	16.23	np	7.97	0.00	8.26		
MW-31(A)	1/11/2004	1456	4.58	16.23	np	7.33	0.00	8.90		
MW-31(A)	1/12/2004	1615	4.00	16.23	np	7.36	0.00	8.87		
MW-31(A)	2/12/2004	1141	-3.92	16.23	np	7.12	0.00	9.11		Iron
MW-31(A)	3/18/2004	1152	4.37	16.23	np	7.64	0.00	8.59		
MW-31(A)	4/12/2004	958	-1.26	16.23	np	7.98	0.00	8.25		Iron
MW-31(A)	4/13/2004	1425	-4.26	16.23	np	8.00	0.00	8.23		
MW-31(A)	5/19/2004	1218	0.49	16.23	np	8.56	0.00	7.67		
MW-31(A)	6/16/2004	1204	1.01	16.23	np	8.80	0.00	7.43		
MW-31(A)	7/19/2004	938	-4.71	16.23	np	9.14	0.00	7.09		
MW-31(A)	7/20/2004	1015	-5.25	16.23	np	9.15	0.00	7.08		
MW-31(A)	8/17/2004	1144	-0.05	16.23	np	9.51	0.00	6.72		
MW-31(A)	9/16/2004	1053	-0.04	16.23	np	9.42	0.00	6.81		

TABLE E-1
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Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-32(A)	10/13/2003	944	-1.55	16.51	np	10.43	0.00	6.08	15.36	
MW-32(A)	10/14/2003	1350	3.21	16.51	np	10.41	0.00	6.10		
MW-32(A)	11/12/2003	1316	3.06	16.51	np	10.07	0.00	6.44		
MW-32(A)	12/16/2003	1039	0.48	16.51	np	8.84	0.00	7.67		
MW-32(A)	1/11/2004	1419	4.01	16.51	np	8.21	0.00	8.30		
MW-32(A)	1/12/2004	1525	3.66	16.51	np	8.30	0.00	8.21		
MW-32(A)	2/12/2004	1241	-3.40	16.51	np	8.50	0.00	8.01		
MW-32(A)	3/18/2004	1056	4.60	16.51	np	8.63	0.00	7.88		
MW-32(A)	4/12/2004	955	-1.26	16.51	np	8.98	0.00	7.53		
MW-32(A)	4/13/2004	1340	-4.26	16.51	np	9.12	0.00	7.39		
MW-32(A)	5/19/2004	1212	0.49	16.51	np	9.56	0.00	6.95		
MW-32(A)	6/16/2004	1130	1.01	16.51	np	9.76	0.00	6.75		
MW-32(A)	7/19/2004	923	-5.63	16.51	np	9.98	0.00	6.53		
MW-32(A)	7/19/2004	1400	2.00	16.51	np	10.00	0.00	6.51		
MW-32(A)	8/17/2004	1103	-1.98	16.51	np	10.31	0.00	6.20		
MW-32(A)	9/16/2004	1022	-2.05	16.51	np	10.15	0.00	6.36		
MW-32(A)	4/11/2006	1355	3.56	16.51	np	8.54	0.00	7.97		
MW-32(A)	12/7/2006	1355	4.90	16.51	np	8.37	0.00	8.14		
MW-33(A)	10/13/2003	937	-1.55	16.14	np	10.87	0.00	5.27	17.31	
MW-33(A)	10/14/2003	838	-2.15	16.14	np	10.70	0.00	5.44		
MW-33(A)	11/12/2003	1328	3.06	16.14	np	10.33	0.00	5.81		
MW-33(A)	12/16/2003	1034	0.48	16.14	np	9.47	0.00	6.67		
MW-33(A)	1/11/2004	1416	4.01	16.14	np	8.92	0.00	7.22		
MW-33(A)	1/12/2004	1425	2.64	16.14	np	9.23	0.00	6.91		
MW-33(A)	4/12/2004	950	-1.26	16.14	np	9.88	0.00	6.26		
MW-33(A)	4/13/2004	715	2.92	16.14	np	9.92	0.00	6.22		
MW-33(A)	5/19/2004	1129	-1.19	16.14	np	10.58	0.00	5.56		
MW-33(A)	6/16/2004	1117	-0.35	16.14	np	10.68	0.00	5.46		
MW-33(A)	7/19/2004	919	-5.63	16.14	np	10.70	0.00	5.44		
MW-33(A)	7/19/2004	1310	0.67	16.14	np	10.76	0.00	5.38		
MW-33(A)	8/17/2004	1053	-1.98	16.14	np	11.02	0.00	5.12		
MW-33(A)	9/16/2004	1017	-2.05	16.14	np	10.75	0.00	5.39		
MW-33(A)	12/7/2006	1410	4.90	16.14	np	9.18	0.00	6.96		
MW-34(A)	10/13/2003	1003	-1.55	15.83	np	9.59	0.00	6.24	15.35	
MW-34(A)	10/15/2003	930	-0.99	15.83	np	9.57	0.00	6.26		

TABLE E-1
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Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-34(A)	11/12/2003	1308	3.06	15.83	np	9.30	0.00	6.53		
MW-34(A)	12/16/2003	1054	0.48	15.83	np	7.91	0.00	7.92		
MW-34(A)	1/11/2004	1429	4.01	15.83	np	7.28	0.00	8.55		
MW-34(A)	1/13/2004	830	-0.07	15.83	np	7.31	0.00	8.52		
MW-34(A)	2/12/2004	1236	-3.40	15.83	np	7.21	0.00	8.62		
MW-34(A)	3/18/2004	1104	4.60	15.83	np	7.64	0.00	8.19		
MW-34(A)	4/12/2004	1000	-1.26	15.83	np	7.96	0.00	7.87		
MW-34(A)	4/14/2004	720	2.14	15.83	np	8.04	0.00	7.79		
MW-34(A)	5/19/2004	1216	0.49	15.83	np	8.54	0.00	7.29		
MW-34(A)	6/16/2004	1135	1.01	15.83	np	8.76	0.00	7.07		
MW-34(A)	7/19/2004	926	-5.63	15.83	np	9.06	0.00	6.77		
MW-34(A)	7/20/2004	710	-2.99	15.83	np	9.02	0.00	6.81		
MW-34(A)	8/17/2004	1106	-1.98	15.83	np	9.42	0.00	6.41		
MW-34(A)	9/16/2004	1112	-0.04	15.83	np	9.66	0.00	6.17		
MW-34(A)	4/11/2006	1350	3.56	15.83	np	7.59	0.00	8.24		
MW-34(A)	12/7/2006	1345	4.90	15.83	np	7.40	0.00	8.43		
MW-35(A)	10/13/2003	1007	-1.55	16.50	np	9.90	0.00	6.60	15.32	
MW-35(A)	10/16/2003	1115	0.27	16.50	np	9.86	0.00	6.64		
MW-35(A)	11/12/2003	1228	1.93	16.50	np	9.47	0.00	7.03		
MW-35(A)	12/16/2003	1154	-0.19	16.50	np	7.70	0.00	8.80		
MW-35(A)	1/11/2004	1449	4.58	16.50	np	6.95	0.00	9.55		
MW-35(A)	1/16/2004	1230	-2.45	16.50	np	6.87	0.00	9.63		
MW-35(A)	2/12/2004	1236	-3.40	16.50	np	6.53	0.00	9.97		
MW-35(A)	3/18/2004	1143	4.37	16.50	np	7.22	0.00	9.28		
MW-35(A)	4/12/2004	1011	-1.26	16.50	np	7.63	0.00	8.87		
MW-35(A)	4/13/2004	1550	-4.00	16.50	np	7.65	0.00	8.85		
MW-35(A)	5/19/2004	1227	0.49	16.50	np	8.33	0.00	8.17		
MW-35(A)	6/16/2004	1148	1.01	16.50	np	8.63	0.00	7.87		
MW-35(A)	7/19/2004	936	-4.71	16.50	np	9.08	0.00	7.42		
MW-35(A)	7/20/2004	832	-5.40	16.50	np	9.08	0.00	7.42		
MW-35(A)	8/17/2004	1134	-0.05	16.50	np	9.51	0.00	6.99		
MW-35(A)	9/16/2004	1104	-0.04	16.50	np	9.44	0.00	7.06		
MW-35(A)	12/4/2006	1310	4.37	16.50	np	6.43	0.00	10.07		No sheen or odors
MW-35(A)	12/7/2006	910	-1.28	16.50	np	7.03	0.00	9.47		No sheen or odors
MW-36(A)	10/13/2003	1124	-0.10	16.14	np	8.96	0.00	7.18	15.36	

TABLE E-1
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Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-36(A)	10/21/2003	1130	2.25	16.14	np	8.78	0.00	7.36		
MW-36(A)	11/12/2003	926	-1.42	16.14	np	8.41	0.00	7.73		
MW-36(A)	12/16/2003	1322	-0.30	16.14	np	5.74	0.00	10.40		
MW-36(A)	1/11/2004	1605	4.26	16.14	np	5.67	0.00	10.47		
MW-36(A)	1/14/2004	1500	0.02	16.14	np	4.63	0.00	11.51		
MW-36(A)	2/12/2004	1002	-2.53	16.14	np	4.19	0.00	11.95		
MW-36(A)	3/18/2004	1328	3.10	16.14	np	4.83	0.00	11.31		
MW-36(A)	4/12/2004	1043	-2.84	16.14	np	5.48	0.00	10.66		
MW-36(A)	4/14/2004	1230	-1.18	16.14	np	5.55	0.00	10.59		
MW-36(A)	5/19/2004	1320	1.86	16.14	np	6.48	0.00	9.66		
MW-36(A)	6/16/2004	1259	1.78	16.14	np	6.87	0.00	9.27		
MW-36(A)	7/19/2004	1046	-2.94	16.14	np	7.54	0.00	8.60		
MW-36(A)	7/22/2004	1011	-5.09	16.14	np	7.60	0.00	8.54		
MW-36(A)	8/17/2004	1215	-0.05	16.14	np	8.33	0.00	7.81		
MW-36(A)	9/16/2004	1205	2.05	16.14	np	8.34	0.00	7.80		
MW-36(A)	12/7/2006	1055	1.34	16.14	np	4.58	0.00	11.56		
MW-37(A)	10/13/2003	1011	-1.55	18.22	np	11.31	0.00	6.91	15.41	
MW-37(A)	10/17/2003	810	1.80	18.22	np	11.23	0.00	6.99		
MW-37(A)	11/12/2003	1242	3.06	18.22	np	10.83	0.00	7.39		
MW-37(A)	12/16/2003	1146	-0.19	18.22	8.39	8.40	0.01	9.83		
MW-37(A)	1/11/2004	1447	4.58	18.22	7.32	7.33	0.01	10.90		
MW-37(A)	2/12/2004	1159	-3.92	18.22	np	6.70	0.00	11.52		Strong odor
MW-37(A)	3/18/2004	1132	4.37	18.22	trace	7.57	trace	10.65		
MW-37(A)	4/12/2004	1015	-1.26	18.22	8.05	8.08	0.03	10.17		
MW-37(A)	5/19/2004	1429	2.56	18.22	9.02	9.07	0.05	9.19		
MW-37(A)	6/16/2004	1142	1.01	18.22	trace	9.42	trace	8.80		
MW-37(A)	7/19/2004	1108	-2.94	18.22	10.12	10.13	0.01	8.10		
MW-37(A)	8/17/2004	1130	-0.05	18.22	8.04	8.05	0.01	10.18		
MW-37(A)	9/16/2004	1116	-0.04	18.22	10.77	10.81	0.04	7.44		
MW-37(A)	4/11/2006	1230	1.97	18.22	np	7.17	0.00	11.05		
MW-37(A)	12/4/2006	1400	2.76	18.22	np	6.21	0.00	12.01		Odors
MW-37(A)	12/7/2006	1030	1.34	18.22	np	6.43	0.00	9.80		
MW-38(A)	10/13/2003	1130	1.50	17.20	np	8.95	0.00	8.25	15.38	
MW-38(A)	10/21/2003	1040	3.15	17.20	np	8.53	0.00	8.67		
MW-38(A)	11/12/2003	919	-1.42	17.20	np	8.33	0.00	8.87		

TABLE E-1
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Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-38(A)	12/16/2003	1314	-0.30	17.20	np	5.21	0.00	11.99		
MW-38(A)	1/11/2004	1609	4.26	17.20	np	4.26	0.00	12.94		
MW-38(A)	1/14/2004	810	2.72	17.20	np	4.40	0.00	12.80		
MW-38(A)	2/12/2004	954	-2.53	17.20	np	3.72	0.00	13.48		
MW-38(A)	3/18/2004	1322	3.10	17.20	np	4.74	0.00	12.46		
MW-38(A)	4/12/2004	1037	-2.84	17.20	np	5.45	0.00	11.75		
MW-38(A)	4/14/2004	1045	2.07	17.20	np	5.48	0.00	11.72		
MW-38(A)	5/19/2004	1315	1.86	17.20	np	6.48	0.00	10.72		
MW-38(A)	6/16/2004	1254	1.78	17.20	np	6.83	0.00	10.37		
MW-38(A)	7/19/2004	1052	-2.94	17.20	np	7.67	0.00	9.53		
MW-38(A)	7/22/2004	910	-4.31	17.20	np	7.72	0.00	9.48		
MW-38(A)	8/17/2004	1209	-0.05	17.20	np	8.31	0.00	8.89		
MW-38(A)	9/16/2004	1200	2.05	17.20	np	8.10	0.00	9.10		
MW-38(A)	12/7/2006	1045	1.34	17.20	np	4.13	0.00	13.07		
MW-39(A)	10/13/2003	1025	-1.55	17.29	np	9.30	0.00	7.99	15.41	
MW-39(A)	10/16/2003	1540	3.64	17.29	np	9.22	0.00	8.07		
MW-39(A)	12/16/2003	1104	0.48	17.29	np	5.79	0.00	11.50		
MW-39(A)	1/11/2004	1435	4.01	17.29	np	4.71	0.00	12.58		
MW-39(A)	1/16/2004	925	3.77	17.29	np	4.65	0.00	12.64		
MW-39(A)	2/12/2004	1225	-3.92	17.29	np	4.21	0.00	13.08		
MW-39(A)	3/18/2004	1114	4.60	17.29	np	5.12	0.00	12.17		
MW-39(A)	4/12/2004	1032	-2.84	17.29	np	5.80	0.00	11.49		
MW-39(A)	4/14/2004	920	3.58	17.29	np	5.89	0.00	11.40		
MW-39(A)	5/19/2004	1531	1.47	17.29	np	6.85	0.00	10.44		
MW-39(A)	6/16/2004	1433	1.13	17.29	np	7.24	0.00	10.05		
MW-39(A)	7/19/2004	1100	-2.94	17.29	np	8.00	0.00	9.29		
MW-39(A)	7/21/2004	1333	0.54	17.29	np	8.05	0.00	9.24		
MW-39(A)	8/17/2004	1116	-1.98	17.29	np	8.60	0.00	8.69		
MW-39(A)	9/16/2004	1135	2.05	17.29	np	8.51	0.00	8.78		
MW-39(A)	12/4/2006	1320	4.66	17.29	np	5.68	0.00	11.61		Probe odors and emulsion
MW-39(A)	12/7/2006	920	-1.28	17.29	np	5.92	0.00	11.37		Odors casing disturbed
MW-40(A)	10/13/2003	1025	-1.55	16.17	np	9.56	0.00	6.61	15.42	
MW-40(A)	10/17/2003	935	0.70	16.17	np	9.51	0.00	6.66		
MW-40(A)	11/12/2003	1235	3.06	16.17	9.18	9.27	0.09	6.98		Pumped out
MW-40(A)	12/16/2003	1138	-0.19	16.17	np	7.45	0.00	8.72		

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-40(A)	1/11/2004	1444	4.58	16.17	np	6.68	0.00	9.49		
MW-40(A)	1/20/2004	800	1.34	16.17	np	6.64	0.00	9.53		
MW-40(A)	2/12/2004	1211	-3.92	16.17	np	6.24	0.00	9.93		Odor
MW-40(A)	3/18/2004	1125	4.60	16.17	np	6.96	0.00	9.21		
MW-40(A)	4/12/2004	1018	-1.26	16.17	np	7.41	0.00	8.76		
MW-40(A)	4/16/2004	1420	0.37	16.17	np	7.48	0.00	8.69		Sheen
MW-40(A)	5/19/2004	1506	2.39	16.17	8.02	8.06	0.04	8.14		
MW-40(A)	6/16/2004	1447	1.13	16.17	8.39	8.41	0.02	7.78		
MW-40(A)	7/19/2004	1106	-2.94	16.17	8.88	8.95	0.07	7.28		
MW-40(A)	8/17/2004	1126	-1.98	16.17	9.30	9.37	0.07	6.86		
MW-40(A)	9/16/2004	1124	-0.04	16.17	np	9.14	0.00	7.03		
MW-40(A)	10/19/2004	1405	3.44	16.17	np	8.70	0.00	7.47		
MW-40(A)	11/16/2004	1037	-0.12	16.17	np	8.24	0.00	7.93		
MW-40(A)	12/13/2004	850	-0.09	16.17	np	7.51	0.00	8.66		
MW-40(A)	3/29/2005	1102	-3.06	16.17	np	7.60	0.00	8.57		
MW-40(A)	12/4/2006	1420	2.76	16.17	np	6.69	0.00	9.48		Odors, product/iron staining
MW-40(A)	12/7/2006	1000	-0.22	16.17	np	6.83	0.00	9.34		
MW-41(A)	10/13/2003	907	-2.52	15.67	np	9.23	0.00	6.44	15.35	
MW-41(A)	10/14/2003	1540	2.91	15.67	np	9.25	0.00	6.42		sheen
MW-41(A)	11/12/2003	1417	3.65	15.67	np	8.91	0.00	6.76		
MW-41(A)	12/16/2003	937	1.46	15.67	np	7.39	0.00	8.28		Odor
MW-41(A)	1/11/2004	1342	4.01	15.67	np	6.72	0.00	8.95		Odor
MW-41(A)	1/16/2004	1125	0.54	15.67	np	7.12	0.00	8.55		Product globules in bailer
MW-41(A)	2/12/2004	1400	-2.19	15.67	6.41	6.71	0.30	9.22		Odor
MW-41(A)	3/18/2004	1004	3.90	15.67	6.95	7.92	0.97	8.57		
MW-41(A)	4/12/2004	922	0.43	15.67	7.29	7.91	0.62	8.29		
MW-41(A)	5/19/2004	1005	-2.92	15.67	8.00	8.25	0.25	7.63		
MW-41(A)	7/19/2004	841	-4.71	15.67	8.64	8.66	0.02	7.03		
MW-41(A)	8/17/2004	958	-3.83	15.67	trace	9.04	trace	6.63		
MW-41(A)	9/16/2004	917	-3.70	15.67	np	8.87	0.00	6.80		
MW-41(A)	11/16/2004	1121	-0.12	15.67	np	8.07	0.00	7.60		
MW-41(A)	3/29/2005	1039	-3.06	15.67	np	7.57	0.00	8.10		
MW-41(A)	4/11/2006	1246	1.97	15.67	7.03	7.36	0.33	8.59		
MW-42(A)	10/13/2003	859	-2.52	15.91	np	9.39	0.00	6.52	15.37	
MW-42(A)	10/15/2003	1100	-0.18	15.91	np	9.38	0.00	6.53		sheen

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-42(A)	11/12/2003	1408	3.65	15.91	np	9.06	0.00	6.85		
MW-42(A)	12/16/2003	925	2.67	15.91	np	7.52	0.00	8.39		
MW-42(A)	1/11/2004	1340	4.01	15.91	6.83	6.90	0.07	9.07		
MW-42(A)	2/12/2004	1352	-2.19	15.91	6.41	7.47	1.06	9.34		
MW-42(A)	3/18/2004	957	3.90	15.91	6.91	8.60	1.69	8.75		
MW-42(A)	4/12/2004	926	0.43	15.91	7.29	8.89	1.60	8.38		
MW-42(A)	5/19/2004	1029	-2.92	15.91	8.00	9.50	1.50	7.69		
MW-42(A)	6/16/2004	1007	-1.94	15.91	8.35	8.87	0.52	7.48		
MW-42(A)	7/19/2004	844	-5.63	15.91	8.78	9.15	0.37	7.07		
MW-42(A)	8/17/2004	953	-3.83	15.91	9.20	9.57	0.37	6.65		
MW-42(A)	9/16/2004	911	-3.70	15.91	8.89	8.91	0.02	7.02		
MW-42(A)	10/19/2004	1237	2.05	15.91	8.61	8.68	0.07	7.29		
MW-42(A)	11/16/2004	1129	-0.12	15.91	8.23	8.36	0.13	7.66		
MW-42(A)	12/13/2004	903	-0.09	15.91	np	7.62	0.00	8.29		
MW-42(A)	3/29/2005	1049	-3.06	15.91	7.59	8.30	0.71	8.23		
MW-42(A)	4/11/2006	1241	1.97	15.91	7.20	7.68	0.48	8.64		
MW-43(A)	10/13/2003	857	-2.52	15.94	np	9.07	0.00	6.87	15.35	
MW-43(A)	10/13/2003	1645	0.78	15.94	np	9.01	0.00	6.93		
MW-43(A)	11/12/2003	1403	3.65	15.94	np	8.74	0.00	7.20		
MW-43(A)	12/16/2003	930	1.46	15.94	np	6.97	0.00	8.97		
MW-43(A)	1/11/2004	1337	4.01	15.94	np	6.24	0.00	9.70		
MW-43(A)	1/12/2004	1053	-1.03	15.94	np	6.33	0.00	9.61		
MW-43(A)	2/12/2004	1347	-2.19	15.94	np	6.00	0.00	9.94		
MW-43(A)	3/18/2004	953	3.90	15.94	np	6.62	0.00	9.32		
MW-43(A)	4/12/2004	928	0.43	15.94	np	7.05	0.00	8.89		
MW-43(A)	4/13/2004	1230	-3.33	15.94	np	7.10	0.00	8.84		
MW-43(A)	5/19/2004	1050	-1.19	15.94	np	7.81	0.00	8.13		
MW-43(A)	6/16/2004	1002	-1.94	15.94	np	8.02	0.00	7.92		
MW-43(A)	7/19/2004	850	-5.63	15.94	np	8.52	0.00	7.42		
MW-43(A)	7/21/2004	1133	-2.95	15.94	np	8.56	0.00	7.38		
MW-43(A)	8/17/2004	950	-3.83	15.94	np	8.97	0.00	6.97		
MW-43(A)	9/16/2004	908	-3.70	15.94	np	8.62	0.00	7.32		
MW-43(A)	4/11/2006	1236	1.97	15.94	np	6.87	0.00	9.07		
MW-43(A)	12/7/2006	1615	3.04	15.94	np	6.55	0.00	9.39		Faint odors
MW-44(A)	10/13/2003	1010	-1.55	15.31	np	8.22	0.00	7.09	15.41	

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-44(A)	10/17/2003	1135	0.72	15.31	np	8.17	0.00	7.14		
MW-44(A)	11/12/2003	1302	3.06	15.31	np	7.95	0.00	7.36		
MW-44(A)	12/16/2003	1132	-0.19	15.31	5.88	6.02	0.14	9.41		
MW-44(A)	1/11/2004	1442	4.58	15.31	5.10	5.24	0.14	10.19		
MW-44(A)	2/12/2004	1217	-3.92	15.31	4.15	4.34	0.19	11.13		Odor
MW-44(A)	3/18/2004	1119	4.60	15.31	4.82	4.99	0.17	10.46		
MW-44(A)	4/12/2004	1020	-1.26	15.31	8.29	9.04	0.75	6.91		
MW-44(A)	5/19/2004	1509	2.39	15.31	6.14	6.91	0.77	9.05		
MW-44(A)	6/16/2004	1439	1.13	15.31	6.37	6.75	0.38	8.88		
MW-44(A)	7/19/2004	1104	-2.94	15.31	7.12	7.57	0.45	8.12		
MW-44(A)	8/17/2004	1121	-1.98	15.31	7.77	8.09	0.32	7.49		
MW-44(A)	9/16/2004	1129	-0.04	15.31	6.68	6.80	0.12	8.61		
MW-44(A)	10/19/2004	1350	3.44	15.31	5.53	5.70	0.17	9.76		
MW-44(A)	11/16/2004	1030	-0.12	15.31	6.05	6.11	0.06	9.25		
MW-44(A)	12/13/2004	856	-0.09	15.31	4.97	5.00	0.03	10.34		
MW-44(A)	3/29/2005	1112	-3.06	15.31	4.82	4.93	0.11	10.48		
MW-44(A)	4/11/2006	1219	3.23	15.31	np	5.03	0.00	10.28		
MW-44(A)	12/7/2006	1010	-0.22	15.31	4.64	4.65	0.01	10.67		
MW-45(A)	10/13/2003	1018	-1.55	17.32	np	9.92	0.00	7.40	17.16	
MW-45(A)	10/16/2003	1730	2.55	17.32	np	9.81	0.00	7.51		
MW-45(A)	11/12/2003	1256	3.06	17.32	np	9.13	0.00	8.19		
MW-45(A)	12/16/2003	1114	0.48	17.32	np	6.41	0.00	10.91		
MW-45(A)	1/11/2004	1440	4.58	17.32	np	5.39	0.00	11.93		
MW-45(A)	1/16/2004	1110	0.54	17.32	np	5.27	0.00	12.05		
MW-45(A)	2/12/2004	1229	-3.92	17.32	np	4.44	0.00	12.88		
MW-45(A)	3/18/2004	1109	4.60	17.32	np	5.69	0.00	11.63		
MW-45(A)	4/12/2004	1029	-1.26	17.32	np	6.35	0.00	10.97		
MW-45(A)	4/14/2004	820	3.11	17.32	np	6.42	0.00	10.90		
MW-45(A)	5/19/2004	1532	1.47	17.32	np	7.41	0.00	9.91		
MW-45(A)	6/16/2004	1425	1.80	17.32	np	7.71	0.00	9.61		
MW-45(A)	7/19/2004	1057	-2.94	17.32	np	8.40	0.00	8.92		
MW-45(A)	7/21/2004	1444	1.91	17.32	np	8.45	0.00	8.87		
MW-45(A)	8/17/2004	1113	-1.98	17.32	np	8.97	0.00	8.35		
MW-45(A)	9/16/2004	1139	2.05	17.32	np	8.80	0.00	8.52		
MW-45(A)	12/4/2006	1330	2.76	17.32	np	5.22	0.00	12.10		Odors
MW-45(A)	12/7/2006	930	-1.28	17.32	np	5.43	0.00	11.89		Odors

TABLE E-1
GROUND-WATER MEASUREMENTS

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Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-46(A)	10/13/2003	919	-2.52	16.00	np	7.46	0.00	8.54	15.34	
MW-46(A)	10/14/2003	1015	-1.65	16.00	np	7.38	0.00	8.62		
MW-46(A)	11/12/2003	857	-1.42	16.00	np	6.64	0.00	9.36		
MW-46(A)	12/16/2003	837	2.67	16.00	np	3.20	0.00	12.80		
MW-46(A)	1/11/2004	1318	2.89	16.00	np	2.47	0.00	13.53		
MW-46(A)	1/14/2004	1020	-0.22	16.00	np	2.90	0.00	13.10		
MW-46(A)	2/12/2004	901	-1.02	16.00	np	2.26	0.00	13.74		
MW-46(A)	3/18/2004	1040	4.60	16.00	np	3.52	0.00	12.48		
MW-46(A)	4/12/2004	850	0.43	16.00	np	4.20	0.00	11.80		
MW-46(A)	4/12/2004	1555	-2.94	16.00	np	4.21	0.00	11.79		
MW-46(A)	5/19/2004	1145	0.49	16.00	np	5.35	0.00	10.65		
MW-46(A)	6/16/2004	912	-3.55	16.00	np	5.58	0.00	10.42		
MW-46(A)	7/19/2004	818	-5.20	16.00	np	6.41	0.00	9.59		
MW-46(A)	7/21/2004	1005	-5.45	16.00	np	6.45	0.00	9.55		
MW-46(A)	8/17/2004	942	-3.83	16.00	np	7.00	0.00	9.00		
MW-46(A)	9/16/2004	843	-3.70	16.00	np	6.55	0.00	9.45		
MW-47(A)	10/13/2003	907	-2.52	16.39	np	8.42	0.00	7.97	15.37	
MW-47(A)	10/13/2003	1745	-1.15	16.39	np	8.39	0.00	8.00		
MW-47(A)	11/12/2003	911	-1.42	16.39	np	7.65	0.00	8.74		
MW-47(A)	12/16/2003	851	2.67	16.39	np	4.81	0.00	11.58		
MW-47(A)	1/11/2004	1328	2.89	16.39	np	4.03	0.00	12.36		
MW-47(A)	1/14/2004	1230	-2.08	16.39	np	4.35	0.00	12.04		
MW-47(A)	2/12/2004	923	-1.02	16.39	np	3.82	0.00	12.57		
MW-47(A)	3/18/2004	1050	4.60	16.39	np	5.43	0.00	10.96		
MW-47(A)	4/12/2004	846	0.43	16.39	np	5.42	0.00	10.97		
MW-47(A)	4/12/2004	1440	-4.26	16.39	np	5.42	0.00	10.97		
MW-47(A)	5/19/2004	1152	0.49	16.39	np	6.41	0.00	9.98		
MW-47(A)	6/16/2004	929	-3.55	16.39	np	6.68	0.00	9.71		
MW-47(A)	7/19/2004	822	-5.20	16.39	np	7.36	0.00	9.03		
MW-47(A)	7/21/2004	755	-3.75	16.39	np	7.38	0.00	9.01		
MW-47(A)	8/17/2004	932	-3.83	16.39	np	7.88	0.00	8.51		
MW-47(A)	9/16/2004	852	-3.70	16.39	np	7.72	0.00	8.67		
MW-48(A)	10/13/2003	915	-2.52	16.21	np	8.51	0.00	7.70	15.88	
MW-48(A)	10/14/2003	1215	0.87	16.21	np	8.48	0.00	7.73		

TABLE E-1
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Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
MW-48(A)	11/12/2003	905	-1.42	16.21	np	7.90	0.00	8.31		
MW-48(A)	12/16/2003	844	2.67	16.21	np	5.65	0.00	10.56		
MW-48(A)	1/11/2004	1325	2.89	16.21	np	4.97	0.00	11.24		
MW-48(A)	1/14/2004	1130	-1.44	16.21	np	5.25	0.00	10.96		Iron
MW-48(A)	2/12/2004	910	-1.02	16.21	np	4.80	0.00	11.41		
MW-48(A)	3/18/2004	1046	4.60	16.21	np	5.66	0.00	10.55		
MW-48(A)	4/12/2004	853	0.43	16.21	np	6.12	0.00	10.09		
MW-48(A)	4/12/2004	1345	-5.05	16.21	np	6.14	0.00	10.07		
MW-48(A)	5/19/2004	1159	0.49	16.21	np	6.89	0.00	9.32		
MW-48(A)	6/16/2004	922	-3.55	16.21	np	7.13	0.00	9.08		
MW-48(A)	7/19/2004	815	-5.20	16.21	np	7.63	0.00	8.58		
MW-48(A)	7/21/2004	901	-4.95	16.21	np	7.66	0.00	8.55		
MW-48(A)	8/17/2004	936	-3.83	16.21	np	8.10	0.00	8.11		
MW-48(A)	9/16/2004	848	-3.70	16.21	np	7.98	0.00	8.23		
R-1(M)	10/22/2003	1340	0.58	13.77	np	4.55	0.00	9.22		
R-1(M)	11/12/2003	1449	3.39	13.77	np	5.06	0.00	8.71		
R-1(M)	12/16/2003	948	1.46	13.77	np	3.51	0.00	10.26		
R-1(M)	1/11/2004	1352	4.01	13.77	np	2.87	0.00	10.90		
MW-49(A)	4/11/2006	1325	1.97	16.43	np	10.30	0.00	6.13		
MW-49(A)	12/7/2006	1505	4.53	16.43	np	10.32	0.00	6.11		
MW-50(A)	4/11/2006	1322	1.97	16.32	10.02	10.16	0.14	6.28		
MW-50(A)	12/4/2006	1500	0.44	16.32	10.07	10.44	0.37	6.19		.37' LNAPL - Sock Needed
MW-51(A)	4/11/2006	1224	3.23	16.52	np	6.31	0.00	10.21		
MW-51(A)	12/4/2006	1340	2.76	16.52	np	5.20	0.00	11.32		Odors
MW-51(A)	12/7/2006	1020	-0.22	16.52	np	5.37	0.00	11.15		
Pier2(A)	12/16/2003	1628	1.91	17.37	np	10.51	0.00	6.86	4.95	
Pier2(A)	1/11/2004	1425	4.01	17.37	np	8.33	0.00	9.04	5.03	
Pier2(A)	2/12/2004	1453	-0.76	17.37	np	13.37	0.00	4.00	4.76	
Pier2(A)	3/18/2004	850	2.49	17.37	np	10.50	0.00	6.87	4.38	
Pier2(A)	4/12/2004	937	-1.26	17.37	np	12.07	0.00	5.30	6.56	
Pier2(A)	5/19/2004	1130	0.49	17.37	np	14.37	0.00	3.00	2.51	
Pier2(A)	6/16/2004	1104	-0.35	17.37	np	14.20	0.00	3.17	3.52	

TABLE E-1
GROUND-WATER MEASUREMENTS

Astoria Area-Wide Petroleum Site
Astoria, Oregon

Well #	Date	Time	Observed Tide Levels	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)	Slip 2 Seep Observations
Pier2(A)	7/19/2004	914	-5.63	17.37	np	18.43	0.00	-1.06	4.57	Tide low
Pier2(A)	8/17/2004	1041	-1.98	17.37	np	16.75	0.00	0.62	2.60	
Pier2(A)	9/16/2004	1011	-2.05	17.37	np	15.71	0.00	1.66	3.71	

Note:
Elevation datum used from November 2003 surve

APPENDIX F

Appendix F contains excerpts from the Astoria Development Code (dated October 1992, updated January 2002, which describes allowed uses for zoning designations within the Regional Study Area.

ASTORIA
DEVELOPMENT CODE

October 1992
Updated January 2002

ARTICLE 2

USE ZONES

R-1: LOW DENSITY RESIDENTIAL ZONE

2.015. PURPOSE.

The purpose of the R-1 Zone is to provide an area of low density single-family dwellings, at an average density of eight (8) units per net acre, their accessory uses, and certain public uses. The policies of the Comprehensive Plan, applicable overlay zone standards, and the standards listed below, will be adhered to.

2.020. USES PERMITTED OUTRIGHT.

The following uses and their accessory uses permitted in an R-1 Zone if the Community Development Director determines that the uses will not violate standards referred to in Section 2.030 through 2.050, additional Development Code provisions, Comprehensive Plan, and other City laws:

1. Single-family dwelling.
2. Accessory rental unit.
3. Family day care center.
4. Home occupation, which satisfies requirements in Section 3.095.
5. Home stay lodging.
6. Manufactured home. See Section 3.140.
7. Residential home.

2.025. CONDITIONAL USE PERMITTED.

The following uses and their accessory uses are permitted in an R-1 Zone if the Planning Commission, after a public hearing, determines that the location and development plans comply with applicable standards referred to in Sections 2.030 through 2.050, additional Development Code provisions, Comprehensive Plan, and other City laws:

1. Bed and breakfast, or inn.
2. Congregate care facility.
3. Day care center.
4. Nursing home.
5. Public or semi-public use.
6. Temporary use meeting the requirements of Section 3.240.

2.030. LOT SIZE.

Uses in an R-1 Zone which are part of a cluster development will comply with lot size requirements in Section 11.160. Other uses in an R-1 Zone will not violate the following requirements affecting lot size which are applicable to the particular use:

1. The minimum lot size for a single-family dwelling will be 5,000 square feet.
2. The minimum lot width for all uses will be 45 feet.
3. The minimum lot depth for all uses will be 90 feet.

2.035. YARDS.

The minimum yard requirements in an R-1 Zone will be as follows:

1. The minimum front yard will be 20 feet.
2. The minimum side yard will be five (5) feet, except on corner lots the side yard on the street side will be 15 feet.
3. The minimum rear yard will be 20 feet, except on corner lots the rear yard will be five (5) feet.

2.040. LOT COVERAGE.

Buildings will not cover more than 30 percent of the lot area.

2.045. HEIGHT OF STRUCTURES.

No structure will exceed a height of 28 feet above grade.

2.050. OTHER APPLICABLE USE STANDARDS.

1. All uses will comply with applicable access, parking, and loading standards in Article 7.

2. Conditional uses will meet the requirements in Article 11.

3. Signs will comply with requirements in Article 8.

4. All structures will have storm drainage facilities that are channeled into the public storm drainage system or a natural drainage system approved by the City Engineer. Developments affecting natural drainage shall be approved by the City Engineer.

5. Where new development is within 100 feet of a known landslide hazard, a site investigation report will be prepared by a registered geologist. Recommendations contained in the site report will be incorporated into the building plans.

6. All uses except those associated with single-family dwellings shall meet the landscaping requirements in Sections 3.105 through 3.120.

7. Density of congregate care facilities, which are designed for assisted living for the elderly or handicapped, shall conform to the density of multi-family developments in the R-2 Zone.

8. Outdoor lighting in residential areas shall be designed and placed so as not to cast glare into adjacent residential properties. The Community Development Director may require the shielding or removal of such lighting where it is determined that existing lighting is adversely affecting adjacent residences.

R-3: HIGH DENSITY RESIDENTIAL ZONE

2.150. PURPOSE.

The purpose of the R-3 Zone is to provide an area for high density residential development not exceeding an average density of 26 units per net acre, accessory uses, and certain public uses. The policies of the Comprehensive Plan, applicable overlay zone standards, and the standards listed below, will be adhered to.

2.155. USES PERMITTED OUTRIGHT.

The following uses and their accessory uses permitted in the R-3 Zone if the Community Development Director determines that the uses will not violate standards referred to in Section 2.165 through 2.185, additional Development Code provisions, Comprehensive Plan policies, and other City laws:

1. Single-family dwelling.
2. Two-family dwelling.
3. Multi-family dwelling.
4. Accessory rental unit.
5. Family day care center.
6. Home occupation, which satisfies requirements in Section 3.095.
7. Home stay lodging.
8. Manufactured dwelling in an approved park.
9. Manufactured home. See Section 3.140.
10. Residential facility.
11. Residential home.

2.160. CONDITIONAL USE PERMITTED.

The following uses and their accessory uses are permitted in the R-3 Zone if the Planning Commission, after a public hearing, determines that the location and development plans comply with applicable standards referred to in Sections 2.165 through 2.185, additional Development Code provisions, Comprehensive Plan policies, and other City laws:

1. Bed and breakfast, or inn.

2. Boarding or rooming house, or other group housing, not mentioned above.

3. Congregate care facility.

4. Day care center.

5. Manufactured dwelling park.

6. Nursing home.

7. Public or semi-public use.

9. Restaurant as an accessory use to an Inn. See Section 3.230.

10. Temporary use meeting the requirements of Section 3.240.

11. Cluster Development meeting the requirements of Section 11.160. Ord 95-05

2.165. LOT SIZE.

Uses in an R-3 Zone which are part of a cluster development will comply with lot size requirements in Section 11.160. Other uses in an R-3 Zone will not violate the following requirements affecting lot size which are applicable to the particular use:

1. The minimum lot size for a single-family dwelling will be 5,000 square feet. Manufactured dwellings in an approved park may meet the requirements set forth in 11.120.

2. The minimum lot size for a two-family dwelling will be 6,500 square feet.

3. The minimum lot size for a multi-family dwelling will be 5,000 square feet for the first unit plus 1,500 square feet for each unit in excess of one.

4. The minimum lot width will be 45 feet.

5. The minimum lot depth will be 90 feet.

"2.170. YARDS.

Uses in the R-3 Zone which are part of a cluster development will comply with the yard requirements in Section 11.160. Other uses in the R-3 Zone will comply with the following requirements:"

A. The minimum yard requirements in an R-3 Zone will be as follows:

1. The minimum front yard will be 20 feet.

2. The minimum side yard will be five (5) feet, except on corner lots the side yard on the street side will be 15 feet.

3. The minimum rear yard will be 15 feet, except on corner lots the rear yard will be five (5) feet.

B. For minimum yard requirements in a manufactured dwelling park, refer to 11.120.

2.175. LOT COVERAGE.

Buildings will not cover more than 50 percent of the lot area.

2.180. HEIGHT OF STRUCTURES.

No structure will exceed a height of 35 feet above grade.

2.185. OTHER APPLICABLE USE STANDARDS.

1. All uses will comply with applicable access, parking, and loading standards in Article 7.

2. Conditional uses will meet the requirements in Article 11.

3. Signs will comply with requirements in Article 8.

4. All structures will have storm drainage facilities that are channeled into the public storm drainage system or a natural drainage system approved by the City Engineer. Developments affecting natural drainage shall be approved by the City Engineer.

5. Where new development is within 100 feet of a known landslide hazard, a site investigation report will be prepared by a registered geologist. Recommendations contained in the site report will be incorporated into the building plans.

6. All uses except those associated with single-family and two-family dwellings shall meet the landscaping requirements in Sections 3.105 through 3.120.

7. Density of congregate care facilities, which are designed for assisted living for the elderly or handicapped, shall conform to the density of multi-family developments in the zone in which such development is located.

8. Outdoor lighting in residential areas shall be designed and placed so as not to cast glare into adjacent residential properties. The Community Development Director may require the shielding or removal of such lighting where it is determined that existing lighting is adversely affecting adjacent residences.

9. For uses located within the Astor-East Urban Renewal District, refer to the Urban Renewal Plan for additional standards.

10. Group Housing.

    a. Density.

    Group housing resident density is limited to two (2) residents per 1,000 square feet of total gross floor area. Residents include all people living at the site, including those who provide support services, building maintenance, care, supervision, etc. People who only work at the site under a valid Home Occupation Permit (see Section 3.095) are not considered residents. Maximum number of residents per site is limited to 15. Usable outdoor area shall be provided at a ratio of 50 square feet per resident.

    b. Parking.

    Where the Community Development Director determines that a group housing facility may require parking in excess of that provided for staff persons, a parking area of sufficient size to provide for anticipated needs shall be provided.

C-2: TOURIST COMMERCIAL ZONE

2.345. PURPOSE.

The intent of this zone is primarily to provide suitable locations for tourist commercial facilities and certain tourist related establishments. In part, this means that areas in the zone should be in close proximity to an arterial street or highway. It also means that the uses allowed should be more limited than those permitted in a C-3 or C-4 Zone. Regulations for the zone are designed to enhance the attractiveness and convenience of the facilities for tourist use and achieve compatibility with adjacent residential areas and overall community design objectives.

2.350. USES PERMITTED OUTRIGHT.

The following uses and their accessory uses are permitted in a C-2 Zone if the Community Development Director determines that the uses will not violate standards referred to in Sections 2.360 to 2.375, additional Development Code provisions, the Comprehensive Plan, and other City laws:

1. Eating or drinking establishment.

2. Home occupation in existing dwelling.

3. Motel, hotel, bed and breakfast, inn or other tourist lodging facility and associated uses.

4. Tourist-oriented retail sales or service establishment.

5. Conference Center. Ord 94-06

2.355. CONDITIONAL USES PERMITTED.

The following uses and their accessory uses are permitted in a C-2 Zone if the Planning Commission, after a public hearing, determines that the location and development plans comply with applicable standards referred to in Sections 2.360 to 2.375, additional Development Code provisions, the Comprehensive Plan, and other City laws:

1. Dwelling as an accessory use to a Use Permitted Outright or a Conditional Use.

2. Family day care center in existing dwelling.

3. Indoor family entertainment or recreation establishment.

4. Non-tourist-oriented retail sales or service establishment, professional, financial, business and medical office where they are part of a mixed-use development that also includes some of the uses that are permitted outright. The conditional use shall not be located on the ground floor of the building, and shall not occupy more than 50% of the total project's gross floor area.

5. Public or semi-public use.

6. Temporary use meeting the requirements in Section 3.240.

2.360. LOT COVERAGE.

Buildings will not cover more than 90 percent of the lot area.

2.365. LANDSCAPED OPEN AREA.

A minimum of 10 percent of the total lot area will be maintained as a landscaped open area.

2.370. HEIGHT OF STRUCTURES.

No structures will exceed a height of 45 feet above grade.

2.375. OTHER APPLICABLE USE STANDARDS.

1. Landscaping shall meet the requirements of Sections 3.105 through 3.120.

2. When a commercial use in a C-2 Zone abuts a lot in a residential zone there will be an attractively designed and maintained buffer of at least five (5) feet in width, which can be in the form of hedges, fencing or walls.

3. Outdoor storage areas will be enclosed by appropriate site obscuring hedges, fencing or walls and will not be over 100 square feet in size.

4. Where feasible, joint access points and parking facilities for more than one use should be provided.

5. All uses will comply with access, parking, and loading standards in Article 7.

6. Conditional Uses will meet the requirements in Article 11.

7. Signs will comply with requirements in Article 8.

8. All structures will have storm drainage facilities that are channeled into the public storm drainage system or a natural drainage system approved by the City Engineer. Developments affecting natural drainage shall be approved by the City Engineer.

9. Where new development is within 100 feet of a known landslide hazard, a site investigation report will be prepared by a registered geologist. Recommendations contained in the site report will be incorporated into the building plans.

10. Design Review Standards. All commercial and recreational facilities shall be reviewed by the Community Development Director based on the following criteria. The Community Development Director may request technical assistance from an independent architect or other design expert in evaluating proposed developments in relation to these standards.

    a. Facility design shall take maximum advantage of river views.

    b. The height, mass, and scale of buildings shall be compatible with the site and adjoining buildings. Use of materials should promote harmony with surrounding structures and the character of the waterfront. The relationship between a building site and the historic buildings within the surrounding area shall be considered an integral part of planning for new construction.

c. The use of stylistic features characteristic of the historic Astoria area and the Pacific Northwest are preferred. This includes the use of natural wood siding such as clapboard, shingles or board and batten siding, pitched roofs, large overhangs, double hung windows, and similar features. Buildings shall be in earthtones, with bright or brilliant colors used only for accent. Buildings shall not create a false historical appearance of a previous period or era.

d. If the proposed project is large or situated so as to become an entrance or major focus of the City, the design will acknowledge the impact it would have on the entire community.

e. Monotony of design shall be avoided. Variety of detail, form and siting should be used to provide visual interest. Large expanses of blank walls shall only be located in areas which are not visible to the public.

f. Buildings should minimize the impact on views and vistas from surrounding or adjacent properties through orientation or location on the site.

g. On-site parking shall be designed to be as unobtrusive as possible, through site location and landscaping.

C-3: GENERAL COMMERCIAL ZONE

2.385. PURPOSE.

This zone is primarily for a wide range of commercial businesses, including most of those allowed in other commercial zones. Compared to the C-4 Zone, the C-3 Zone is more appropriate for uses requiring a high degree of accessibility to vehicular traffic, low intensity uses on large tracts of land, most repair services, and small warehousing and wholesaling operations. Unlike the C-4 Zone, there are maximum lot coverage, landscaping, and off-street parking requirements for all uses.

2.390. USES PERMITTED OUTRIGHT.

The following uses and their accessory uses are permitted in a C-3 Zone if the Community Development Director determines that the uses will not violate standards referred to in Sections 2.400 through 2.415, additional Development Code provisions, the Comprehensive Plan, and other City laws:

1. Business service establishment.
2. Commercial laundry or dry cleaning establishment.
3. Commercial or public off-street parking lot.
4. Communication service establishment.
5. Construction service establishment.
6. Eating and drinking establishment.
7. Educational service establishment.
8. Family day care center in single-family, two-family, or multi-family dwelling.
9. Home occupation in existing dwelling.
10. Motel, hotel, bed and breakfast, inn, or other tourist lodging facility and associated uses.
11. Multi-family dwelling.

21. Indoor family entertainment or recreation establishment. Ord 98-01

12. Personal service establishment.

13. Professional service establishment.

14. Public or semi-public use.

15. Repair service establishment, not including automotive, heavy equipment, or other major repair services.

16. Residential facility.

17. Retail sales establishment.

18. Single-family and two-family dwelling, located above or below the first floor of new or existing structures, with commercial facilities on the first floor of the structure.
Ord. 00-08 9-6-00

19. Transportation service establishment.

20. Conference Center. Ord 94-06

2.395. CONDITIONAL USES PERMITTED.

The following uses and their accessory uses are permitted in a C-3 Zone if the Planning Commission, after a public hearing, determines that the location and development plans comply with applicable standards referred to in Sections 2.400 through 2.415, additional Development Code provisions, the Comprehensive Plan, and other City laws:

1. Animal hospital or kennel.

2. Automotive sales or service establishment.

3. Day care center.

4. Gasoline service station.

5. Hospital.

Ord 98-01

~~6. Indoor family entertainment or recreation establishment.~~

7. Light Manufacturing.

8. Recycling establishment.

9. Repair service establishment not allowed as an Outright Use.

10. Temporary use meeting the requirements of Sections 3.240.

11. Wholesale trade or warehouse establishment.

2.400. LOT COVERAGE.

Buildings will not cover more than 90 percent of the lot area.

2.405. LANDSCAPED OPEN AREA.

A minimum of 10 percent of the total lot area will be maintained as a landscaped open area.

2.410. HEIGHT OF STRUCTURES.

No structure will exceed a height of 45 feet above grade.

2.415. OTHER APPLICABLE USE STANDARDS.

1. Landscaping shall meet the requirements of Sections 3.105 through 3.120.

2. When a commercial use in a C-3 Zone abuts a lot in a residential zone, there will be an attractively designed and maintained buffer of at least five (5) feet in width, which can be in the form of hedges, fencing, or walls.

3. Outdoor storage areas will be enclosed by appropriate vegetation, fencing, or walls. This requirement does not apply to outdoor retail sales areas.

4. Where feasible, joint access points and parking facilities for more than one use should be established. This standard does not apply to multi-family residential developments.

5. All uses will comply with access, parking, and loading standards in Article 7.

6. Conditional uses will meet the requirements in Article 11.

7. Signs will comply with requirements in Article 8.

8. All structures will have storm drainage facilities that are channeled into the public storm drainage system or a natural drainage system approved by the City Engineer. Developments affecting natural drainage shall be approved by the City Engineer.

9. Where new development is within 100 feet of a known landslide hazard, a site investigation report will be prepared by a registered geologist. Recommendations contained in the site report will be incorporated into the building plans.

10. For uses located within the Astor-East Urban Renewal District, refer to the Urban Renewal Plan for additional standards.

A-1: AQUATIC ONE DEVELOPMENT ZONE

2.500. PURPOSE AND AREAS INCLUDED.

The purpose of the Aquatic One Development Zone (A-1) is to provide for the maintenance, enhancement and expansion of areas, activities and structures needed for navigation and for water-dependent industrial, commercial and recreational uses. Water-related industrial, commercial and recreational uses are also provided for where such uses are consistent with the purpose of this Zone. The Aquatic One Development Zone includes: navigation channels, access channels, turning basins and deep water areas adjacent or in proximity to the shoreline; subtidal areas for in-water disposal of dredged material; areas of minimum biological significance needed for uses requiring alteration of the estuary; and areas for which an exception to the requirements of the Estuarine Resources Goal has been adopted as an amendment to the Astoria Comprehensive Plan.

2.505. PERMITTED USES.

The following uses and activities and their accessory uses and activities are permitted in the Aquatic One Development Zone, subject to the appropriate provisions of Section 2.515, Development Standards and Procedural Requirements:

1. Water-dependent commercial or industrial use.

2. Navigational structure.

* 3. Water-dependent public recreational facility, including boat ramp, dock, moorage and marina for commercial and recreational marine craft.

4. Shoreline stabilization.

* 5. Flowlane disposal of dredged material.

6. Pipeline, cable, and utility crossing.

* 7. Storm water and treated wastewater outfall.

8. Communication facility.

9. Temporary dike for emergency flood protection limited to 60 days subject to State and Federal requirements.

* 10. New dike construction.

11. Maintenance and repair of existing structure or facility.

12. Dredging and filling, pursuant to the applicable standards in Section 4.050 and 4.070, for any of the permitted uses 1 through 11 listed above.

13. The following water-related commercial and industrial uses:

    a. Boat and/or marine equipment sales;

    b. Fish or shellfish retail or wholesale outlet;

* c. Charter fishing office;

    d. Sports fish cleaning, smoking, or canning establishment;

* e. Retail trade facility for the sale of products such as ice, bait, tackle, gasoline or other products incidental to or used in conjunction with a water-dependent use;

    f. Eating and drinking establishment which provides a view of the waterfront, and which is in conjunction with a water-dependent use such as a marina or seafood processing plant;

* g. Cold storage and/or ice-processing facility independent of seafood processing facility.

14. Navigation aid.

15. Piling and pile supported structure as necessary for any of the permitted uses 1 through 14 listed above, or as necessary for any use permitted in the adjacent shoreland.

16. Bridge crossing.

* Not permitted at South Tongue Point.

2.510. CONDITIONAL USES.

The following uses and activities and their accessory uses and activities may be permitted in the Aquatic One Development Zone as Conditional Uses when authorized in accordance with Article 11, Conditional Uses. These uses and activities are also subject to the appropriate provisions of Section 2.515, Development Standards and Procedural Requirements. It must also be shown that these uses and activities are consistent with the purpose of the Aquatic One Development Zone.

1. Mining and mineral extraction.

2. Active restoration.

3. Bridge crossing support structure.

4. Aquaculture and water-dependent portions of aquaculture facility.

5. In-water log dump, sorting operation.

6. A use for which an exception to the Estuarine Resources Goal has been adopted as an amendment to the Astoria Comprehensive Plan.

7. Dredged material disposal at sites designated for dredged material disposal in the Comprehensive Plan.

8. Dredging and filling, pursuant to the applicable standards in Section 4.050 and 4.070, for any of the conditional uses 1 through 7 listed above.

9. Water-related recreational use.

10. Water-related commercial or industrial use other than those listed under Section 2.505(13) of this zone.

11. Piling as necessary for any of the conditional uses 1 through 10 listed above.

12. Temporary use meeting the requirements of Section 3.240.

"13. Non-water dependent and non-water related uses may be located in existing, under-utilized buildings provided the use does not preclude future water-dependent or water-related uses."

Ord 94-05

2.515. DEVELOPMENT STANDARDS AND PROCEDURAL REQUIREMENTS.

1. All uses shall satisfy applicable Columbia River Estuary Shoreland and Aquatic Area Use and Activity Standards in Article 4. Where a proposal involves several uses, the standards applicable to each use shall be satisfied (e.g., dredge, fill, shoreline stabilization, piling installation, or other activities in conjunction with an industrial facility shall be subject to the respective standards for these uses).

2. When a proposal includes several uses, the uses shall be reviewed in aggregate under the more stringent procedure.

3. Uses that are not water-dependent shall be located either on a floating structure or pilings, and shall not increase the need for fill if in association with a water-dependent use located on fill.

4. Uses that are not water-dependent shall not preclude or conflict with existing or probable future water-dependent use on the site or in the vicinity.

5. There shall be no height limit for structures in the Aquatic One Development Zone.

6. Uses and activities that would potentially alter the estuarine ecosystem shall be preceded by a clear presentation of the impacts of the proposed alteration subject to the requirements of Section 5.010, Impact Assessment.

7. Uses in the Aquatic One Development Zone which are water-dependent or water-related must meet the criteria for water-dependent uses (Section 4.220(A)) or for water-related uses (Section 4.220(B)).

8. Projects in the Tongue Point Mediated Panel Agreement area must comply with the applicable policies in the Comprehensive Plan, Section CP.180(G).

9. Projects at the Port of Astoria Docks Mediated Panel Agreement area must comply with the applicable policies in the Comprehensive Plan, Section CP.165(G).

10. Accessory structures in the Aquatic One Development Zone are limited in size to a maximum of 10% of the primary structure.

11. In the unincorporated UGB, uses and activities permitted under Sections 2.505 and 2.510 of this zone are subject to the public notice provisions of Section 9.020 if an impact assessment is required pursuant to Section 5.010, or if a determination of consistency with the purpose of the A-1 Zone is required pursuant to Section 5.020(5), or if the Community Development Director determines that the permit decision will require interpretation or the exercise of factual, policy or legal judgement.

"12. Any lease of property for non-water dependent or non-water related uses shall contain a provision that the property owner shall terminate the lease if the property owner determines that the property is required for a water dependent or water related use."

Ord 94-05

A-2: AQUATIC TWO DEVELOPMENT ZONE

2.525. PURPOSE AND AREAS INCLUDED.

The purpose of the Aquatic Two Development Zone is to enhance the unique character of the Downtown Waterfront and Maritime Museum subareas by providing for their redevelopment as mixed-use areas; the redevelopment to occur in a manner that is compatible with the retention and expansion of existing water-dependent uses in the area. Water-dependent uses shall have the highest priority. Non-water-dependent uses are permitted where they are consistent with the provision for water-dependent uses. The mix of water-dependent and non-water-dependent uses shall provide for public access where feasible.

The Aquatic Two Development Zone includes: deep-water areas adjacent or in proximity to the shoreline; areas of minimum biological significance, vacant over-water pile supported structures suitable for redevelopment, and areas for which an exception to the requirements of the Estuarine Resources Goal has been adopted as an amendment to the Astoria Comprehensive Plan.

2.530. PERMITTED USES.

The following uses and activities and their accessory uses and activities are permitted in the Aquatic Two Development Zone, subject to the appropriate provisions of Section 2.540 Development Standards and Procedural Requirements:

1. Water-dependent commercial and industrial use.
2. Small boat building and repair.
3. Water-dependent facilities including dock, moorage, pier, terminal, transfer facility and marina for commercial and recreational marine craft, for passengers, or for waterborne commerce.
4. Public pier.
5. Navigational structure.
6. Shoreline stabilization.
7. Pipeline, cable, and utility crossing.

8. Storm water and treated wastewater outfall.

9. Communication facility.

10. New dike construction.

11. Maintenance and repair of existing structure or facility.

12. Public use in conjunction with the Columbia River Maritime Museum.

13. Flowlane disposal of dredged material.

14. Dredging or filling, pursuant to the applicable standards in Section 4.050 and 4.070, for any of the permitted uses 1 through 13 listed above.

15. The following water-related commercial uses:

    a. Boat and/or marine equipment sales;

    b. Fish or shellfish retail or wholesale outlet;

    c. Charter fishing office;

    d. Sports fish cleaning, smoking or canning establishment;

    e. Retail trade facility for the sale of products such as ice, bait, tackle, gasoline or other products incidental to or used in conjunction with a water-dependent use.

16. Navigation aid.

17. Piling as necessary for any of the permitted uses 1 through 16 listed above.

2.535. CONDITIONAL USES.

The following uses and activities and their accessory uses and activities may be permitted in the Aquatic Two Development Zone as Conditional Uses when authorized in accordance with Article 11 Conditional Uses. These uses and activities are also subject to the provisions of Section 2.540 Development Standards and Procedural Requirements. These uses and activities must be consistent with the purpose of the Aquatic Two Development Zone.

1. Dredged material disposal at sites designated for dredged material disposal in the Comprehensive Plan.

2. Dredged material disposal at sites not designated for dredged material disposal in the Comprehensive Plan, provided the dredged material is utilized as a source of fill material for an approved fill project.

3. Aquaculture and water-dependent portions of aquaculture facility.

4. Water-dependent or water-related recreational use not listed elsewhere in this zone.

5. Active restoration.

6. Bridge crossing and bridge crossing support structure.

7. A use for which an exception to the Estuarine Resources Goal has been adopted as an amendment to the City's Comprehensive Plan.

8. Fill in conjunction with any of the conditional uses 1 through 7 listed above pursuant to the applicable standards in Section 4.050.

9. Mining and mineral extraction.

10. Dredging in conjunction with any of the conditional uses 1 through 9 listed above, pursuant to the applicable standards in Section 4.050.

11. Water-related commercial or industrial use not listed under Section 2.530.

12. Eating and drinking establishment open to the general public which provides significant visual access to the waterfront.

13. Hotel, motel, inn, bed and breakfast which provides significant visual access to the waterfront.

14. Tourist-oriented retail sales establishment which provides significant visual access to the waterfront.

15. Indoor amusement, entertainment, and/or recreation establishment which provides significant visual access to the waterfront.

Ord 00-03 3/30/00

personal service establishment limited to beauty and barber services and garment alterations.

16. Professional and business office, residence, and arts and crafts studio meeting the requirements of Section 2.540(10).

17. Conference Center which provides significant visual access to the waterfront. Ord 94-13

18. ~~17.~~ Piling in conjunction with any of the above conditional uses.

19. ~~18.~~ Temporary use meeting the requirements of Section 3.240.

2.540. DEVELOPMENT STANDARDS AND PROCEDURAL REQUIREMENTS.

1. All uses shall satisfy applicable Columbia River Estuary Shoreland and Aquatic Areas Use and Activity Standards in Article 4. Where a proposal involves several uses the standards applicable to each use shall be satisfied (e.g., dredge, fill, shoreline stabilization, piling installation or other activities in conjunction with an aquaculture facility shall be subject to the respective standards for these uses).

2. When a proposal includes several uses, the uses shall be reviewed in aggregate under the more stringent provision.

3. Uses that are not water-dependent shall be located either on a floating structure or pilings, and shall not increase the need for fill if in association with a water-dependent use located on fill.

4. Uses that are not water-dependent shall not preclude or conflict with existing or probable future water-dependent use on the site or in the vicinity.

5. No structure will exceed a height of 28 feet above the grade of adjacent shoreland, except for those areas between the extended 15th and 21st Street right-of-ways, and between the extended 6th Street right-of-way and the Astoria-Megler Bridge. In these two areas no structure shall exceed a height of 45 feet above the grade of adjacent shoreland. Amd 99-06 4/5/99

6. Uses and activities that would potentially alter the estuarine ecosystem shall be preceded by a clear presentation of the impacts of the proposed alteration, subject to the requirements of Section 5.010, Impact Assessment.

7. Uses located between the extended right-of-ways of 8th Street and 14th Street are not required to provide off-street parking or loading. Uses located in other portions of the A-2 Zone shall comply with the access, parking and loading standards specified in Article 7.

8. Special siting standards. All buildings shall meet the following special siting standards:

   a. Buildings shall be located no closer than 25 feet to a line extending from a point of intersection of a City right-of-way and the shoreline of the Columbia River Estuary, to the pierhead line. The required setback areas shall include open space, publicly accessible walkways, plazas or landscaped areas, where feasible but not parking or storage.

   b. Buildings shall be located as close to the bankline as practical, except where necessary to provide loading and unloading, or parking in accordance with 4.050, or to provide an aesthetic feature such as an open water area adjacent to the shore. This standard shall not be applicable to water dependent uses such as fish receiving stations which have a need to locate near deep water.

c. Buildings should minimize the impact of views on surrounding or adjacent properties through orientation or location on the site.

d. Buildings should be designed to relate to or connect with the street ends or public access points which they adjoin, unless there is a public safety or security issue which overrides this consideration. This connection can consist of the provision of decks, entrance ways, windows, retail sales facilities, eating or drinking establishments or similar facilities which enhance the waterfront setting.

e. Water oriented uses that provide the opportunity for the public to enjoy the waterfront for leisure and recreation shall occupy at least 75% of the ground level building facade facing the waterfront as measured in linear feet horizontally across the building wall. Water-oriented uses qualifying under this definition include parks, plazas, public seating, museums and other displays, resorts open to the public, aquariums, retail stores, and eating and drinking establishments open to the public.

9. Uses in this zone which are water-dependent or water-related must meet the criteria for water-dependent uses (Section 4.220(A)) or for water-related uses (Section 4.220(B)).

10. Professional and business offices, residences, and arts and crafts studios are permitted where they are part of a mixed-use development that also includes some of the tourist-oriented uses listed in Section 2.535 (12 through 15), under the following conditions:

a. Single-Story Structure: The office, residence, or arts and crafts studio uses shall constitute no more than 25% of the total project's gross floor area.

b. Multi-Story Structure, shall conform to one of the following options:

1) The office, residence, or arts and crafts studio uses shall constitute no more than 50% of the total project's gross floor area.

2) A multi-story structure which maintains at least 75% of the ground floor or street level space for tourist-oriented uses as listed above, may devote 100% of the upper floors to non-tourist oriented uses, consisting of professional and business offices, residences, and arts and crafts studios.

11. Accessory structures in the Aquatic Two Development Zone are limited in size to a maximum of 10% of the primary structure.

Ord 00-03 3/20/00

"10. Professional and business office, personal service establishment limited to beauty and barber services and garment alterations, residence, and arts and crafts studio are permitted where they are part of a mixed-use development that also includes some of the tourist-oriented uses listed in Section 2.535 (12 through 15), under the following conditions:

a. Single-Story Structure: The office, personal service establishment, residence, or arts and crafts studio uses shall constitute no more than 25% of the total project's gross floor area.

b. Multi-Story Structure, shall conform to one of the following options:

1) The office, personal service establishment, residence, or arts and crafts studio uses shall constitute no more than 50% of the total project's gross floor area.

2) A multi-story structure which maintains at least 75% of the ground floor or street level space for tourist-oriented uses as listed above, may devote 100% of the upper floors to non-tourist oriented uses, consisting of professional and business offices, personal service establishment limited to beauty and barber services and garment alterations, residences, and arts and crafts studios."

A-2A: AQUATIC TWO-A DEVELOPMENT ZONE

2.550. PURPOSE AND AREAS INCLUDED.

The purpose of the Aquatic Two-A Development Zone is to provide for its redevelopment as a mixed-use area while permitting exclusive office use on piling supported structures. The mix of uses shall provide for public access where feasible. The Aquatic Two-A Development Zone includes: deep water areas adjacent or in proximity to the shoreline; areas of minimum biological significance; and piles and pile supported structures. Also included are areas for which an exception to the requirements of the Estuarine Resources Goal has been adopted as an amendment to the City's Comprehensive Plan.

2.555. PERMITTED USES.

The following uses and activities and their accessory uses and activities are permitted in the Aquatic Two-A Development Zone, subject to the appropriate provisions of Section 2.565, Development Standards and Procedural Requirements:

1. Water-dependant commercial and industrial use.
2. Small boat building and repair.
3. Dock, moorage, pier, terminal, transfer facility and marina for commercial and recreational marine craft, for passengers, or for waterborne commerce.
4. Public pier.
5. Navigational structure.
6. Shoreline stabilization.
7. Pipeline, cable, and utility crossing.
8. Storm water and treated wastewater outfall.
9. Communication facility.
10. New dike construction.

11. Maintenance and repair of existing structure and facility.

12. Flowlane disposal of dredged material.

13. Dredging or filing as necessary for any of the permitted uses 1 through 12 listed above, pursuant to the applicable standards in Section 4.050 and 4.070.

14. The following water-related commercial uses:

    a. Boat and/or marine equipment sales;

    b. Fish or shellfish retail or wholesale outlet;

    c. Charter fishing office;

    d. Sports fish cleaning, smoking or canning establishment;

    e. Retail trade facility for the sale of products such as ice, bait, tackle, gasoline or other products incidental to or used in conjunction with a water-dependent use.

15. Navigation aide.

16. Piling as necessary for any of the permitted uses 1 through 15 listed above.

2.560. CONDITIONAL USES.

The following uses and activities and their accessory uses and activities may be permitted in the Aquatic Two-A Development Zone as Conditional Uses when authorized in accordance with Article 11, Conditional Uses. These uses and activities are also subject to the appropriate provisions of Section 2.565, Development Standards and Procedural Requirements. It must also be shown that these uses and activities are consistent with the purpose of the Aquatic Two-A Development Zone.

1. Aquaculture and water-dependent portions of aquaculture facility.

2. Water-dependent or water-related recreational use not listed elsewhere in this zone.

3. Active restoration.

4. Bridge crossing and bridge crossing support structure.

5. A use for which an exception to the Estuarine Resources Goal has been adopted as an amendment to the Astoria Comprehensive Plan.

6. Fill in conjunction with any of the conditional uses 1 through 5 listed above, pursuant to the applicable standards in Section 4.070.

7. Mining and mineral extraction.

8. Dredging in conjunction with any of the conditional uses 1 through 7 listed above, pursuant to the applicable standards in Section 4.050.

9. Water-related commercial or industrial use.

10. Eating and drinking establishment open to the general public which provides significant visual access to the waterfront.

11. Hotel, motel, inn, bed and breakfast which provides significant visual access to the waterfront.

12. Tourist-oriented retail sales establishment which provides significant visual access to the waterfront.

13. Indoor amusement, entertainment, and/or recreation establishment which provides significant visual access to the waterfront.

14. Professional, business and medical office.

15. Residential use meeting the requirements of 2.565(8).

16. Temporary use meeting the requirements of Section 3.240.

18. ~~17.~~ Piling in conjunction with any of the conditional uses 1 through 16 listed above.

17. Conference Center which provides significant visual access to the waterfront. Ord 94-06

2.565. DEVELOPMENT STANDARDS AND PROCEDURAL REQUIREMENTS.

1. All uses shall satisfy applicable Columbia River Estuary Shoreland and Aquatic Use and Activity Standards in Article 4. Where a proposal involves several uses the standards applicable to each use shall be satisfied (e.g., dredge, fill, shoreline stabilization, piling installation or other activities in conjunction with an aquaculture facility shall be subject to the respective standards for these uses).

2. When a proposal includes several uses, the uses shall be reviewed in aggregate under the more stringent provision.

3. Uses that are not water-dependent shall be located either on a floating structure or pilings, and shall not increase the need for fill if in association with a water-dependent use located on fill.

4. Uses that are not water-dependent shall not preclude or conflict with existing or probable future water-dependent use on the site or in the vicinity. Particular attention shall be given to the possible impacts of traffic generation and parking on the operation of existing or probable water-dependent uses.

5. No structure will exceed a height of 28 feet above the grade of adjacent shorelands.

6. Uses and activities that would potentially alter the estuarine ecosystem shall be preceded by a clear presentation of the impacts of the proposed alteration, subject to the requirements of Section 5.010, Impact Assessment.

7. Uses in this zone which are water-dependent or water-related must meet the criteria for water-dependent uses (Section 4.220(A)) or for water-related uses (Section 4.220(B)).

8. Residences are permitted where they are part of a mixed-use development that also includes some of the tourist-oriented uses listed in Section 2.560 (10 through 14), under the following conditions:

a. Single-Story Structure: The residence shall constitute no more than 25% of the total project's gross floor area.

b. Multi-Story Structure, shall conform to one of the following options:

1) The residence shall constitute no more than 50% of the total project's gross floor area.

2) A multi-story structure which maintains at least 75% of the ground floor or street level space for tourist-oriented uses as listed above, may devote 100% of the upper floors to residences.

9. Accessory structures in the Aquatic Two-A Development Zone are limited in size to a maximum of 10% of the primary structure.

A-3: AQUATIC CONSERVATION ZONE

2.575. PURPOSE AND AREAS INCLUDED.

The purpose of the Aquatic Conservation Zone (A-3) is to assure the conservation of: fish and wildlife habitats; essential properties of the estuarine resource (e.g., dynamic geological processes, continued biological productivity, unique or endemic communities of organisms, maintenance of species diversity); and the long-term use and conservation of renewable estuarine resources. This designation provides for development of low to moderate intensity that does not require major alterations of the estuary, with emphasis on maintaining estuarine natural resources and benefits. The Aquatic Conservation Zone includes small areas of tidal marsh and intertidal mud-sand flats, small fringing tidal marshes, and open water portions of the estuary and areas needed for recreational use. Partially altered estuarine areas adjacent to existing development of moderate intensity are also included in this designation, unless otherwise needed for preservation or development consistent with the need to minimize damage to the estuarine ecosystem.

Low to moderate intensity development is appropriate in Aquatic Conservation area designation (e.g., active restoration measure, communication facilities, and aquaculture). When consistent with the resource capabilities of the area and the purposes of the Aquatic Conservation Zone designation, conditional uses providing for development of moderate intensity are appropriate.

2.580. PERMITTED USES.

The following uses and activities and their accessory uses and activities are permitted in the Aquatic Conservation Zone subject to the appropriate provisions of Section 2.590, Development Standards and Procedural Requirements:

1. Estuarine enhancement.

2. Riprap for protection of use existing as of October 7, 1977, unique natural resources, historical or archeological resources, or public facility.

3. Maintenance and repair of existing structure or facility.

4. Active restoration of fish habitat, wildlife habitat, or water quality.

5. Filling in conjunction with any of the permitted uses 1 through 4, above, pursuant to the applicable standards in Section 4.070.

6. Tidegate installation and maintenance in existing functional dike.

7. Dredging to obtain fill material for dike maintenance pursuant to the dike maintenance dredging standards.

8. Pipeline, cable, and utility crossing.

9. Water-dependent parts of an aquaculture facility which do not involve dredge or fill or other estuarine alterations other than incidental dredging for harvest of benthic species or removable in-water structures such as stakes or racks.

10. Dredging in conjunction with any of the permitted uses 1 through 9, above, pursuant to the applicable standards in Section 4.050.

11. Navigation aid.

12. Communication facility.

13. Bridge crossing support structure.

14. Boat ramp for public use where no dredge or fill is needed for navigational access.

15. Undeveloped low intensity water-dependent recreation.

16. Project for the protection of habitat, nutrient, fish, wildlife and aesthetic resources.

17. Research and educational observation.

18. Piling and pile supported structure in conjunction with any of the permitted uses 1 through 17 above.

19. Passive restoration.

20. Bridge crossing.

2.585. CONDITIONAL USES.

The following uses and activities and their accessory uses and activities may be allowed in the Aquatic Conservation Zone as Conditional Uses when authorized in accordance with Article 11, Conditional Uses. These uses and activities are also subject to the appropriate provisions of Section 2.590, Development Standards and Procedural Requirements. It must also be determined if these uses and activities meet the resource capability of the Aquatic Conservation area in which they occur, and if they are consistent with the Aquatic Conservation Zone's purpose. The procedures in Section 5.020, Resource Capability Determination, will be used to make this determination.

1. Aquaculture and water-dependent portions of aquaculture facility.

2. Active restoration for purposes other than protection of habitat, nutrient, fish, wildlife and aesthetic resources.

3. Temporary alteration.

4. Beach nourishment at sites designated in the Comprehensive Plan.

5. Filling in conjunction with conditional uses 1 through 4, above, pursuant to the applicable standards in Section 4.070.

6. High-intensity water-dependent recreation including boat ramp, marina, and individual dock.

7. Minor navigational improvement.

8. Mining and mineral extraction.

9. Dredging in conjunction with any of the conditional uses 1 through 8, above, pursuant to the applicable standards in Section 4.050.

10. Low-intensity water-dependent commercial or industrial use requiring occupation of water-surface area by means other than fill.

11. In-water log storage.

12. Piling in conjunction with any of the conditional uses 1 through 11, above.

13. Temporary use meeting the requirements of Section 3.240.

2.590. DEVELOPMENT STANDARDS AND PROCEDURAL REQUIREMENTS.

1. All uses shall satisfy applicable Columbia River Estuary Shoreland and Aquatic Area and Activity Standards in Article 4. Where a proposal involves several uses, the standards applicable to each use shall be satisfied (e.g., dredge, fill, shoreline stabilization, piling installation or other activities in conjunction with an aquaculture facility shall be subject to the respective standards for these uses).

2. When a proposal includes several uses, the uses shall be reviewed in aggregate under the more stringent procedure. In addition, a proposal with several uses shall be reviewed in aggregate for consistency with the resource capability and purposes of the Aquatic Conservation Zone, Section 2.575, when a Resource Capability Determination is required.

3. Uses and activities that would potentially alter the estuarine ecosystem shall be preceded by a clear presentation of the impacts of the proposed alteration, subject to the requirements of Section 5.010, Impact Assessment.

4. No use shall be allowed in an Aquatic Conservation Zone (A-3) which would cause a major alteration of the estuary.

5. The maximum height of structures in the Aquatic Conservation Zone shall be 20 feet above the grade of adjacent shorelands.

6. Uses that are not water-dependent shall be located either on a floating structure or pilings, and shall not increase the need for fill if in association with a water-dependent use located on fill.

7. Uses that are not water-dependent shall not preclude or conflict with existing or probable future water-dependent use on the site or in the vicinity.

8. Uses in this zone which are water-dependent or water-related must meet the criteria for water-dependent uses (Section 4.220(A)), or for water-related uses (Section (4.220(B)).

9. Accessory structures in the Aquatic Conservation Zone are limited in size to a maximum of 10% of the primary structure.

A-4: AQUATIC NATURAL ZONE

2.600. PURPOSE AND AREAS INCLUDED.

The purpose of the Aquatic Natural Zone (A-4) is to assure the preservation and protection of: 1) significant fish and wildlife habitats, 2) essential properties of the estuarine resource (e.g., dynamic geological processes, continued biological productivity, unique or endemic communities of organisms, species diversity), and 3) research and educational opportunities. The Aquatic Natural Zone includes major tracts of tidal marshes and intertidal mud-sand flats, which because of a combination of factors such as size, habitat value and productivity, play a vital role in the function of the estuarine ecosystem. Aquatic Natural Zones may also include ecologically important subtidal areas. Low intensity uses consistent with the preservation and protection of natural resource values are appropriate in Aquatic Natural Zones.

2.605. PERMITTED USES.

The following uses and activities and their accessory uses and activities are permitted in the Aquatic Natural Zone subject to the appropriate provisions of Section 2.615, Development Standards and Procedural Requirements:

1. Low-intensity water-dependent recreation.
2. Passive restoration.
3. Navigational aide, such as beacon and buoy.
4. Vegetative shoreline stabilization.
5. Emergency repair to existing dike.
6. Marine research and education.
7. Piling installation as necessary for permitted uses 1 through 6, above.
8. Bridge crossing.

2.610. CONDITIONAL USES.

The following uses and activities and their accessory uses and activities may be allowed in the Aquatic Natural Zone as Conditional Uses when authorized in accordance with Article 11, Conditional Uses. These uses and activities are also subject to the appropriate provisions of Section 2.615, Development Standards and Procedural Requirements. It must also be determined if these uses and activities meet the resource capability of the Aquatic Natural area in which they occur, and if they are consistent with the purpose of the Aquatic Natural Zone. The procedures in Section 5.020, Resource Capability Determination, will be used to make this determination.

1. Maintenance and repair of existing structure or facility.

2. Fill as necessary for conditional use number 1, above, pursuant to the applicable standards in Section 4.070.

3. Active restoration.

4. Pipeline, cable and utility crossing.

5. Dredging as necessary for conditional uses 1 through 4, above, pursuant to the applicable standards in Section 4.050.

6. Aquaculture facility limited to temporary removable structures which require no dredge or fill.

7. Boat ramp for public use where no dredging or fill for navigational access is needed.

8. Bridge crossing support structure.

9. Piling as necessary for conditional uses 1 through 9, above.

10. Temporary alteration.

11. Communication facility.

2.615. DEVELOPMENT STANDARDS AND PROCEDURAL REQUIREMENTS.

1. All uses shall satisfy applicable Columbia River Estuary Shoreland and Aquatic Area Use and Activity Standards in Article 4. There a proposal involves several uses, the standards applicable to each use shall be satisfied (e.g., dredge, fill, shoreline stabilization, piling installation or other activities in conjunction with an aquaculture facility shall be subject to the respective standards for these uses).

2. When a proposal includes several uses, the uses shall be reviewed in aggregate under the more stringent procedure. In addition, a proposal with several uses shall be reviewed in aggregate for consistency with the resource capability and purposes of the Aquatic Natural Zone, Section 2.600, when a Resource Capability Determination is required.

3. Uses and activities that would potentially alter the estuarine ecosystem shall be preceded by a clear presentation of the impacts of the proposed alteration, subject to the requirements of Section 5.010, Impact Assessment.

4. The maximum height of structures in the Aquatic Natural Zone shall be 20 feet above the grade of adjacent shorelands.

5. Uses that are not water-dependent shall be located either on a floating structure or pilings, and shall not increase the need for fill if in association with a water-dependent use located on fill.

6. Uses that are not water-dependent shall not preclude or conflict with existing or probable future water-dependent use on the site or in the vicinity.

7. Uses in this zone which are water-dependent or water-related must meet the criteria for water-dependent uses (Section 4.220(A)) or for water-related uses (Section 4.220(B)).

8. Accessory structures in the Aquatic Natural Zone are limited in size to a maximum of ten percent of the primary structure.

S-1: MARINE INDUSTRIAL SHORELANDS

2.650. PURPOSE AND AREA INCLUDED.

The purpose of the Marine Industrial Shorelands Zone is to manage shorelands in urban and urbanizable areas especially suited for water-dependent uses and to protect these shorelands for water-dependent industrial, commercial and recreational use. The Marine Industrial Shorelands Zone includes areas with special suitability for water-dependent development. Primary attributes for Marine Industrial Shorelands areas are access to well scoured deep water and maintained navigation channels, existing developed land uses, potential for aquaculture, feasibility for marina development, and potential for recreational utilization. Uses of Marine Industrial Shorelands shall maintain the integrity of the estuary and coastal waters. Water-dependent uses receive highest priority, followed by water-related uses. Uses which are not water-dependent or water-related are provided for, but only when they do not foreclose options for future higher priority uses and do not limit the potential for more intensive uses of the area.

2.655. PERMITTED USES.

The following uses and activities and their accessory uses and activities are permitted in the Marine Industrial Shorelands Zone subject to the applicable provisions of Section 2.665, Development Standards and Procedural Requirements:

1. Water-dependent industrial use.

2. Water-dependent commercial use.

* 3. Water-dependent recreational facility, including boat ramp, dock, moorage and marina for commercial and recreational marine craft.

* 4. Other water-dependent commercial and recreational uses.

5. Shoreline stabilization.

6. Navigational aide.

7. Temporary dike for emergency flood protection limited to 60 days, subject to State and Federal regulations.

8. Water-related commercial and industrial use.

* Not permitted at South Tongue Point.

2.660. CONDITIONAL USES.

The following uses and activities and their accessory uses and activities may be permitted in the Marine Industrial Shorelands Zone as Conditional Uses when authorized in accordance with Article 11, Conditional Uses. These uses and activities are also subject to the appropriate provisions of Section 2.665, Development Standards and Procedural Requirements:

1. Retail trade facility for the sale of products such as ice, bait, tackle, charts, gasoline or other products incidental to, or used in conjunction with a water-dependent use.

2. Eating and drinking establishment which provides a view of the waterfront, and which is in conjunction with a water-dependent use such as a marina or seafood processing plant.

3. Water-related recreational use.

4. Aquaculture facility.

5. Temporary use meeting the requirements of Section 3.240.

6. Non-water-dependent and non-water-related use which is accessory to and in conjunction with permitted water-dependent and water-related use.

2.665. DEVELOPMENT STANDARDS AND PROCEDURAL REQUIREMENTS.

1. All uses shall satisfy applicable Columbia River Estuary Shoreland and Aquatic Area Use and Activity Standards in Article 4. Where a proposal involves several uses the standards applicable to each use shall be satisfied (e.g., dredge, fill, shoreline stabilization, piling installation or other activities in conjunction with an aquaculture facility shall be subject to the respective standards of these uses).

2. When a proposal includes several uses, the uses shall be reviewed in aggregate under the more stringent procedure.

3. Uses that are not water-dependent shall not preclude or conflict with existing or probable future water-dependent use on the site or in the vicinity.

"7. Non-water dependent and non-water related uses may be located in existing, under-utilized buildings provided the use does not preclude future water-dependent or water-related uses."

Ord 94-05

4. Water-dependent recreation and water-dependent commercial uses shall be located so as not to interfere with water-dependent marine industrial uses of areas.

5. There shall be no height limitation for structures sited within the Marine Industrial Shorelands Zone.

6. Uses in this zone which are water-dependent or water-related must meet the criteria for water-dependent use (Section 4.220(A)), or for water-related uses (Section 4.220(B)).

7. Uses in the South Tongue Point Area, the North Tongue Point Mediated Agreement Area, or in the Port of Astoria Mediated Agreement Area, must comply with the relevant policies in the Comprehensive Plan, Sections CP.165(G) or CP.180(H).

8. Accessory structures in the Marine Industrial Shorelands Zone are limited in size to a maximum of ten percent of the lot or parcel size.

9. In the unincorporated UGB, uses and activities permitted under Sections 2.655 and 2.660 of this zone are subject to the public notice provisions of Section 9.020 if an impact assessment is required pursuant to Section 5.010, or if the Community Development Director determines that the permit decision will require interpretation or the exercise of factual, policy or legal judgement.

"10. Any lease of property for non-water dependent or non-water related uses shall contain a provision that the property owner shall terminate the lease if the property owner determines that the property is required for a water dependent or water related use."

Ord 94-05

S-2: GENERAL DEVELOPMENT SHORELANDS ZONE

2.675. PURPOSE AND AREAS INCLUDED.

The purpose of the S-2 Zone is to provide an area where a mixture of industrial, commercial, residential, public and recreational uses can locate. Uses which are water-dependent or water-related and other uses which would benefit from a water-front location are preferred. The S-2 Zone includes areas less suitable for marine-oriented uses than the S-1 Zone, such as shoreland areas with limited backup land.

2.680. PERMITTED USES.

The following uses and activities and their accessory uses and activities are permitted in the General Development Shorelands Zone, subject to the provisions of 2.690, Development Standards and Procedural Requirements.

* 1. Charter fishing office.

2. Cold storage and/or ice processing facility.

* 3. Marina and high intensity water-dependent recreation.

4. Marine equipment sales establishment.

* 5. Petroleum receiving, dispensing and storage for marine use.

6. Seafood receiving and processing.

7. Ship and boat building and repair.

8. Maintenance and repair of existing structure or facility.

9. Navigation aide.

10. Temporary dike for emergency flood protection subject to State and Federal regulations.

11. Shoreline stabilization.

12. Public park or recreation area.

13. Water-dependent industrial, commercial and recreational use.

* 14. Manufactured Dwelling in an approved park.

* Not permitted at South Tongue Point.

2.685. CONDITIONAL USES.

The following uses and activities and their accessory uses and activities may be allowed as Conditional Uses when authorized in accordance with Article 11, Conditional Uses, and when they meet the provisions of 2.690, Development Standards and Procedural Requirements.

1. Active restoration/resource enhancement.

* 2. Automobile sales and service establishment.

3. Contract construction service establishment.

4. Educational establishment.

* 5. Gasoline service station.

6. Housing which is secondary to another permitted use, such as security guard's or proprietor's quarters.

7. Log storage/sorting yard.

* 8. Manufactured Dwelling Park which satisfies requirements in Section 11.120.

* 9. Single-family residence where such use occupies no more than 25% of a structures gross floor area.

* 10. Multi-family dwelling.

11. Public or semi-public use.

12. Utility.

13. Business service establishment.

14. Communication service establishment.

15. Personal service establishment.

16. Professional service establishment.

17. Repair service establishment.

18. Research and development laboratory.

19. Shipping and port activity.

20. Wholesale trade, warehouse, and/or distribution establishment (including trucking terminal).

21. Eating and drinking establishment.

22. Retail sales establishment.

* 23. Hotel, motel, inn, bed and breakfast.

* 24. Indoor amusement, entertainment and/or recreation establishment.

25. Wood processing.

26. Light manufacturing.

27. Temporary use meeting the requirements of Section 3.240.

28. Water-related industrial, commercial and recreational uses.

* 29. Conference Center. Ord 94-06

* Not permitted at South Tongue Point.

2.690. DEVELOPMENT STANDARDS AND PROCEDURAL REQUIREMENTS.

1. All uses will satisfy applicable Columbia River Estuary Shoreland and Aquatic Area Use and Activity Standards in Article 4. Where a proposal involves several uses the standards applicable to each use shall be satisfied.

2. Outdoor storage areas will be enclosed by appropriate vegetation, fencing or walls.

3. All uses will comply with access, parking, and loading standards in Article 7.

4. When a proposal includes several uses, the uses shall be reviewed in aggregate under the more stringent procedure.

5. Signs will comply with requirements in Article 8.

6. No structure will exceed a height of 28 feet above grade, except for those areas between the 15th and 21st Street right-of-ways, and between the 5th Street right-of-way and the Astoria-Megler Bridge. In these two areas no structure shall exceed a height of 45 feet above grade.

7. Commercial and recreational facilities having a tourist orientation shall be designed to take maximum advantage of river views.

8. Uses which are non-water-dependent, non-water-related or which otherwise derive no benefit from a waterfront location and which have frontage on the water shall provide a landscaped buffer along the waterfront.

9. Whenever possible all structures shall be designed and orientated to maintain views of the river from public rights-of-way.

10. Uses in this zone which are water-dependent or water-related must meet the criteria for water-dependent uses (Section 4.220(A)), or for water-related uses (Section 4.220(B)).

11. Accessory structures in the General Development Shorelands Zone are limited in size to a maximum of 10% of the lot or parcel size.

IN: INSTITUTIONAL ZONE

2.835. PURPOSE.

This zone is intended to facilitate uses such as parks, public works, schools, museums, open space, and similar activities on property which is presently committed to such uses.

2.840. USES PERMITTED OUTRIGHT.

The following uses and their accessory uses are permitted in an IN Zone if the Community Development Director determines that the uses will not violate standards referred to in Sections 2.835 through 2.860, additional Development Code provisions, the Comprehensive Plan, and other City laws:

1. Caretaker dwelling.
2. Community building.
3. ~~Park.~~ Low-intensity recreation. Ord 96-01
4. Public parking lot or structure.
5. Public restroom.
6. Public utility shop and yard.
7. Recycling or solid waste transfer facility.
8. Reservoir.
9. School or college.
10. Single-family dwelling on lot where such use existed as of January 1, 1990.
11. Utilities.

2.842. Conditional Uses Permitted.

Ord 96-01
(see attached)

1. High Intensity recreation

ORDINANCE NO. 96-01

AN ORDINANCE AMENDING THE ASTORIA DEVELOPMENT CODE CONCERNING USES ALLOWED IN THE INSTITUTIONAL ZONE (IN) AND LAND RESERVE ZONE (LR).

THE CITY OF ASTORIA DOES ORDAIN AS FOLLOWS:

Section 1. The Astoria Development Code Section 2.840(3) "Uses Permitted Outright" in the IN Zone is deleted in its entirety and amended to read as follows:

"3. Low-intensity recreation."

Section 2: The Astoria Development Code is amended by the addition of Section 2.842 to read as follows:

"2.842. CONDITIONAL USES PERMITTED.

The following uses and their accessory uses are permitted in an Institional Zone (IN) if the Planning Commission, after a public hearing, determines that the location and development plans comply with applicable standards referred to in Sections 2.845 through 2.860, additional Development Code provisions, the Comprehensive Plan, and other City laws:

1. High-intensity recreation."

Section 3. The Astoria Development Code Section 2.875(3) "Uses Permitted Outright" in the LR Zone is deleted in its entirety and replaced to read as follows:

"3. Low-intensity recreation."

Section 4. Effective Date. This ordinance and its amendment will be effective 30 days following its passage and enactment by the City Council.

ADOPTED BY THE COMMON COUNCIL THIS 16 DAY OF JANUARY, 1996.

APPROVED BY THE MAYOR THIS 16 DAY OF JANUARY, 1996.

Mayor

ATTEST:

Finance Director

ROLL CALL ON ADOPTION:		YEA	NAY	ABSENT
Commissioner	Wilkins	X		
	Morden	X		
	Thompson	X		
	Borgardt	X		
Mayor Van Dusen				X

2.845. YARDS.

The minimum yard requirements in an IN Zone will be as follows:

1. The minimum front yard will be 20 feet.

2. The minimum side yard will be five (5) feet, except on corner lots, the side yard on the street side will be 15 feet.

3. The minimum rear yard will be 20 feet, except on corner lots, the rear yard will be five (5) feet.

2.850. LANDSCAPED OPEN AREA.

A minimum of 10 percent of the total lot area will be maintained as a landscaped open area.

2.855. HEIGHT OF STRUCTURES.

No structure will exceed a height of 45 feet above grade.

2.860. OTHER APPLICABLE USE STANDARDS.

1. Landscaping shall meet the requirements of Sections 3.105 through 3.120.

2. When an institutional use in an IN Zone abuts a lot in a residential zone, there will be an attractively designed and maintained buffer of at least five (5) feet in width, which can be in the form of hedges, fencing, or walls.

3. Outdoor storage areas will be enclosed or screened from view by appropriate vegetation, fencing, or walls.

4. Where feasible, joint access points and parking facilities for more than one use should be established.

5. All uses will comply with access, parking, and loading standards in Article 7.

6. Signs will comply with requirements in Article 8.

7. All structures will have storm drainage facilities that are channeled into the public storm drainage system or a natural drainage system approved by the City Engineer. Developments affecting natural drainage shall be approved by the City Engineer.

8. Where new development is within 100 feet of a known landslide hazard, a site investigation report will be prepared by a registered geologist. Recommendations contained in the site report will be incorporated into the building plans.

9. Single-family dwellings existing as of January 1, 1990 may be moved, enlarged or reconstructed provided such work is confined to those privately owned lots associated with the dwelling.

APPENDIX G

Appendix G contains the Maul Foster & Alongi report dated June 20, 2007, presenting the Human Health Risk Assessment.

HUMAN HEALTH RISK ASSESSMENT

Prepared for:

ENVIROLOGIC RESOURCES, INC.

ASTORIA AREA-WIDE PETROLEUM SITE
ASTORIA, OREGON
DEQ ECSI FILE NO. 2277

Project No. 0116.01.01

Prepared by:

MAUL FOSTER ALONGI INC.
ENVIRONMENTAL & ENGINEERING CONSULTANTS
Vancouver, WA | Portland, OR | www.MFAinc.org

June 20, 2007

HUMAN HEALTH RISK ASSESSMENT
ASTORIA AREA-WIDE PETROLEUM SITE
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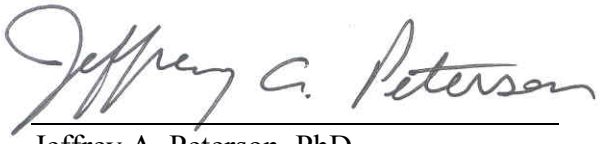
Maul Foster & Alongi, Inc.
3121 SW Moody Avenue, Suite 200
Portland, Oregon 97239

Project No. 0116.01.01

Human Health Risk Assessment
Astoria Area-Wide Petroleum Site
Astoria, Oregon
DEQ ECSI File No. 2277

The material and data in this report were prepared under the supervision and direction of the undersigned.

Maul Foster & Alongi, Inc.



Jeffrey A. Peterson, PhD
Principal Environmental Scientist



Madi Novak
Project Environmental Scientist

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ACRONYMS AND ABBREVIATIONS

AOC	area of concern
API	American Petroleum Institute
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BCE	British Columbia Ministry of Environment
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
cm	Centimeter
COI	chemical of interest
COPC	chemical of potential concern
CSM	conceptual site model
Delphia Oil	Delphia Oil Company
DEQ	Oregon Department of Environmental Quality
DRO	diesel-range organics
Ecology	Washington State Department of Ecology
FS	feasibility study
GRO	gasoline-range organics
Harris/Van West	Flying Dutchman and Harris Enterprises
HHRA	human health risk assessment
HQ	hazard quotient
IRIS	Integrated Risk Information System
LMS	linearized multistage model
LNAPL	light nonaqueous-phase liquid
McCall	McCall Oil and Chemical Company
MCL	maximum contaminant level
MFA	Maul Foster & Alongi, Inc.
mg/kg	milligrams per kilogram
mm	millimeter(s)
MRL	method reporting limit
$\mu g/m^3$	micrograms per cubic meter
Niemi Oil	Ed Niemi Oil Company
OAR	Oregon Administrative Rules
the Order	DEQ Unilateral Order No. ECSR-NWR-01-11
OWRD	Oregon Water Resources Department
PAH	polycyclic aromatic hydrocarbon

PCB	polychlorinated biphenyl
the Port	Port of Astoria
ppbv	parts per billion by volume
ppmv	parts per million by volume
PRG	preliminary remediation goal
PRP	potentially responsible party
Qwest	Qwest Communications International
RBC	risk-based concentration
RBDM	Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites
RfD	reference dose
RI	remedial investigation
RME	reasonable maximum exposure
SF	slope factor
the Site	Astoria Area-Wide Petroleum Site
SVOC	semivolatile organic compound
TPH	total petroleum hydrocarbons
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound

1 INTRODUCTION

Maul Foster & Alongi, Inc. (MFA) has been retained by EnviroLogic Resources, Inc. to complete the baseline human health risk assessment (HHRA) for the Astoria Area-Wide Petroleum Site (Site) in Astoria, Oregon. The purpose of the HHRA is to characterize potential risks that site-related chemicals in soil and groundwater may pose to human health. This HHRA is based on the results of site investigations documented in the Remedial Investigation (RI) Report (EnviroLogic Resources, 2007), and was performed consistent with methods outlined in the HHRA Work Plan (MFA, 2005) and in subsequent correspondence with the Oregon Department of Environmental Quality (DEQ) (DEQ, 2005, 2006; MFA, 2006).

The DEQ issued a unilateral order (DEQ Unilateral Order No. ECSR-NWR-01-11) (Order) requiring an RI/feasibility study (FS) and potential cleanup of properties in an area near the Port of Astoria (the Port) in Astoria, Oregon. The baseline HHRA has been completed as part of this RI. The Order was issued to several of the current and former facility operators, property owners, and leaseholders that have engaged in industrial and commercial activities. ChevronTexaco Products Company, Delphia Oil Company (Delphia Oil), McCall Oil and Chemical Company (McCall), Ed Niemi Oil Company (Niemi Oil), Flying Dutchman and Harris Enterprises (Harris/Van West), the Port, Qwest Communications International (Qwest), and Shell Oil Company, collectively hereinafter referred to as the potentially responsible parties (PRPs), are identified in the Order and have agreed to comply with its requirements. Qwest withdrew from participation in site investigations in 2004. ExxonMobil Corporation agreed to participate in investigations conducted by the PRP group in November 2003 because they are a former tenant of a property within the Site.

1.1 Assessment Approach

The baseline HHRA follows the assessment approach outlined in the DEQ (2003) *Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites* (RBDM). The RBDM was designed to allow efficient evaluations of human-health risks associated with potential exposures to petroleum-related chemicals. Contaminant impacts to soil and groundwater at the Site are primarily the result of historical petroleum releases (MFA, 2005). To evaluate potential risk, the RBDM emphasizes comparisons of site-related chemical concentrations with relevant risk-based concentrations (RBCs). An RBC is an estimate of the concentration of a chemical in soil, groundwater, or air that would not

pose unacceptable risks to humans with a reasonable maximum exposure (RME) to the impacted medium. The DEQ has developed generic RBCs for the most common pathways by which humans may contact petroleum-related chemicals at a site.

1.2 Report Organization

The rest of this HHRA report is organized into the following sections:

- Section 2 presents background information regarding the Site, such as site setting, geology and hydrogeology, chemicals of interest (COIs), and beneficial uses of land and water.
- Section 3 describes the data evaluation process and identifies chemicals of potential concern (COPCs).
- Section 4 describes the conceptual site model (CSM).
- Section 5 characterizes potential risks that COPCs may pose to human health.
- Section 6 describes important sources of uncertainty in risk estimates.
- Section 7 presents the primary findings of the risk assessment.

2 BACKGROUND

This section briefly describes background information regarding the Site, such as the setting, site history, geology and hydrogeology of the area, and current and reasonably likely future beneficial uses of land and water. More detailed descriptions of relevant background information are presented in the RI report (EnviroLogic Resources, 2007).

2.1 Site Setting

The Site comprises properties located at and near the Port in Astoria, Oregon (Figure 2-1). The Site is located in section 7, township 8 north, range 9 west, and section 12, township 8 north, range 10 west, Willamette Base and Meridian. The Site includes the former McCall bulk plant property and is bounded by the Burlington Northern Railroad tracks and Hamburg Street to the southwest, Marine Drive to the south, Portway to the east, and the Columbia River to the north.

West Marine Drive (U.S. Highways 26, 30, and 101) is located on a topographic bench approximately 15 feet above the level of the Port facilities. The Columbia River flows to the west on the north side of the Site. Young's Bay lies to the south.

2.2 Site History

The area around the Port has been used for petroleum storage and distribution since approximately the 1920s. Aboveground storage tanks (ASTs), underground storage tanks (USTs), and pipelines are present on several of the facilities on the Site. Historically, the Site was home to at least four bulk petroleum storage facilities and five vehicle-fueling or -service stations between West Marine Drive and the Columbia River. Pipelines from at least two of the bulk fuel storage facilities extend onto piers at the Port. Remedial actions have been conducted at several facilities on the Site.

2.3 Local Geology and Hydrogeology

The Site is underlain by dredge fill deposits, native alluvial deposits, and the Astoria Formation (EnviroLogic Resources, 2007). The dredge sand fill is characterized by grey and light-brown fine to medium sand with lenses of silt and clay. The nature of the sand

is fairly consistent across the Site, although the amount of silt and clay varies within the dredge sand fill. In certain areas, the thin silt lenses are relatively extensive and contiguous. In other areas of the Site, these silt and clay lenses do not appear to be present. The dredge fill, native alluvial deposits, and Astoria Formation all appear to be hydraulically connected, although with differing abilities to transmit water.

The depth to groundwater is variable across the Site, ranging from approximately 5 feet in depth near the Columbia River to 25 feet in depth near West Marine Drive (EnviroLogic Resources, 2007). With the exception of the southeast portion of the Site near Val's Texaco, where the shallow water-bearing zone was encountered about 20 to 25 feet below ground surface (bgs), the shallow water-bearing zone is located within 5 to 15 feet bgs (Table 2-1). Variation in the groundwater elevation generally reflects the topography, as the properties along West Marine Drive are approximately 15 feet higher in elevation than those along Industry Street and near the Columbia River. A retaining wall is present along the north sides of several of the sites along West Marine Drive.

The direction of the hydraulic gradient in the shallow water-bearing zone is generally north or northwest throughout the year, and over most of the Site the horizontal hydraulic gradient ranges from 0.003 to 0.007 feet per foot (EnviroLogic Resources, 2007). However, along West Marine Drive the hydraulic gradient ranges from 0.025 to 0.05 feet per foot. The shallow groundwater system under the Site is influenced by tidal effects of Young's Bay and the Columbia River, especially in monitoring wells near the shoreline.

2.4 Chemicals of Interest

Contamination on the Site is primarily the result of unintentional releases of various petroleum products from storage or handling facilities. As a result, the primary COIs are petroleum-related compounds. However, the sampling program conducted as part of the RI evaluated a wide range of potential contaminants in soil and groundwater. Soil and groundwater samples were analyzed for total petroleum hydrocarbons (TPH); volatile organic compounds (VOCs); semivolatile organic compounds (SVOCs); polychlorinated biphenyls (PCBs); polycyclic aromatic hydrocarbons (PAHs); and various metals.

Petroleum products comprise numerous hydrocarbons. Environmental sampling efforts performed as part of the RI focused on the key petroleum-related chemicals identified in the DEQ's 1999 RBDM guidance (DEQ, 1999). The key constituents of a petroleum mixture differ, depending on the type of petroleum product. For example, benzene, toluene, ethylbenzene, and xylenes (BTEX) are key individual chemical constituents of gasoline, and PAHs are key constituents of diesel and heavy oil. Individual petroleum constituents that are considered COIs include the following:

- VOCs found in petroleum-based fuels, such as BTEX and trimethylbenzenes

- VOCs that have been used historically as amendments in fuels, such as 1,2-dibromoethane, 1,2-dichloroethane, and methyl-tert-butylether

- Certain PAHs that are found in fuels and lubricants

- Metals that may be found in waste oils

The DEQ's 2003 RBDM, issued after most of the soil data had been collected, revised the recommended approach for evaluating risks associated with exposure to petroleum compounds. In addition to an evaluation of key individual constituents of petroleum, the 2003 RBDM recommends an evaluation of whole petroleum mixtures such as gasoline and diesel. Using estimates of the composition of fresh product, the 2003 RBDM guidance provides default soil and groundwater RBCs for gasoline and diesel. The guidance also presents options for a responsible party to make site-specific adjustments to RBCs, based on characterization of the actual composition of the petroleum mixture present (e.g., fresh product is typically more toxic than weathered product). Although the RI sampling program was not specifically designed to characterize the composition of petroleum products that have been released at the Site, sufficient data regarding TPH in soil and groundwater have been collected to perform a risk evaluation consistent with the 2003 RBDM guidance.

Several soil and groundwater samples were analyzed for a variety of metals that are not typically associated with petroleum products. Many of the metals do not appear to be elevated above natural background concentrations. However, all metals evaluated as part of the RI are considered COIs for the purposes of the risk evaluation.

2.5 Beneficial Uses of Land and Water

The Site is currently used for commercial and industrial purposes (EnviroLogic Resources, 2003b). Most properties on the Site have been used for commercial or industrial purposes since the 1920s (EnviroLogic Resources, 2002b). All land on the Site is zoned for commercial and industrial uses (EnviroLogic Resources, 2003b), and parts of the Site are undergoing development to support commercial and industrial operations. Based on local land-use plans that emphasize commercial and industrial development at the Site, it is reasonably likely that future uses will be similar to current land uses. As a result, various workers are the human populations with the greatest potential to contact impacted environmental media at the Site.

When the HHRA Work Plan (MFA, 2005) was submitted, a four-unit apartment complex was located on West Marine Drive just west of the Harris/Van West property (Figure 2-2). The HHRA Work Plan identified urban residents as potential human receptors at this apartment complex. Recently, this apartment complex was demolished, and the property is likely to be redeveloped to support commercial activities.

Although waterfront residential developments (condominiums and single-family residences) have occurred in Astoria east of the Site, the Port's charter prohibits such developments on Port property (EnviroLogic Resources, 2003b). Not all properties within the Site are owned by the Port. However, given current zoning, land-use plans, and development trends, it is not likely that single- or multi-family residences will be developed at the Site in the foreseeable future.

An inventory of borings and wells was developed using the Groundwater Resource Information Distribution database provided by the Oregon Water Resources Department (OWRD). Based on information obtained from this database search and from Port personnel, no water-supply wells appear to exist on or near the Site. The OWRD database was also searched for possible water rights related to properties on site. There are no places of use or points of diversion or appropriation located on or near the Site (EnviroLogic Resources, 2002b).

The City of Astoria supplies municipal water to facilities in and near the Site. Groundwater is not used for domestic, municipal, agricultural, or industrial purposes (EnviroLogic Resources, 2002b). Given the availability, reliability, and relatively low cost of the public water supply, municipal water will likely remain the primary water source for the Site in the foreseeable future; as a result, human receptors such as occupational workers are not likely to ingest or directly contact site-related chemicals in groundwater.

2.6 Areas of Concern

Based on the presence of potential or confirmed sources of hazardous substances, soil analytical results that characterize conditions near release locations, and groundwater analytical results that characterize the extent of contamination, four general areas of concern (AOCs) were identified in the RI report (EnviroLogic Resources, 2007). AOCs for the Site are shown in Figure 2-3.

3 DATA EVALUATION AND CHEMICALS OF POTENTIAL CONCERN

The quality of data used in risk assessment can affect the uncertainty in resulting risk estimates. Before data are used in a quantitative risk assessment, data quality is evaluated for appropriateness and usability. The data-evaluation process and selection of COPCs are described below.

3.1 Data Evaluation

Several environmental investigations were conducted within the boundaries of the Site dating back to the 1980s and before the RI was initiated (EnviroLogic Resources, 2002b). However, only data collected as part of the RI are used in this HHRA. Data collected during the RI are the most recent and better represent current conditions. The more recent data also are likely to be more accurate and reliable than historical results. For example, analytical methods have improved since the 1980s, and MFA could not confirm whether some historical data had undergone appropriate data-quality reviews. Historical data also may sometimes characterize chemical concentrations in soil and groundwater that have subsequently undergone a remedial action. The RI involved a comprehensive sampling program, and these data best characterize existing site conditions.

Soil and groundwater samples were analyzed for gasoline-range organics (GRO) by NWTPH-Gx; for diesel and heavy oil by NWTPH-Dx; for metals by U.S. Environmental Protection Agency (USEPA) Method series 200 or 6000/7000; for hexavalent chromium by USEPA Method 7195; for VOCs by USEPA Method 8260B; for BTEX by USEPA Method 8021B; for phenols by USEPA Method 8041; for formaldehyde by USEPA Method 8315A; and for PAHs by USEPA Method 8270M-SIM (selective ion monitoring). Analytical results were available for three xylene isomers: m-, p-, and o-xylenes. Concentrations of m-, p-, and o-xylenes were summed for comparison with screening levels.

MFA reviewed data-quality assurance reviews completed by EnviroLogic Resources and by each PRP of soil and groundwater samples collected as part of the RI (EnviroLogic Resources, 2003a, 2003c, 2004a, 2004b, 2004c, 2004d, 2004e) Data quality was evaluated using methods recommended by the USEPA (1989). For example, as part of data validation, some analytical results were assigned a standard letter code by the laboratory or validator to qualify the result (e.g., “J” to indicate that the value is an

estimate). GRO and BTEX results for soil sample SB-813(Q)-0 were rejected during the validation process and are therefore not used in the risk assessment. No other data were rejected.

EnviroLogic Resources has developed a database (Access©) that includes analytical results from samples collected during historical investigations and results of samples collected as part of the RI. In June 2006, MFA transferred these data from the comprehensive database into spreadsheets. Data were queried to extract relevant information in a format usable for risk evaluation. The database included soil data collected from 1986 through 1997 and from 2002 through 2005. It also included groundwater data collected from 1986 through 1999 and from 2002 through 2004. The older data (1986 through 1999) frequently did not include method reporting limits (MRLs) for nondetections, and the origin and quality of many of these data could not be verified. Only the more recent data collected in 2002 through 2005 as part of the RI were used in the HHRA.

In some cases, multiple analyses for the same chemical were performed on a soil or groundwater sample. For example, the sample may have been analyzed for certain VOCs, using both USEPA Methods 8260B and 8021B. Results from both types of analyses were included in the HHRA.

Some remedial actions were completed after the RI soil sampling. A remedial action involving soil excavation was performed in the area where soil sample SB202(C) was collected at 2 feet bgs (EnviroLogic Resources, 2007). Because impacted soil was removed from this area, analytical data for this soil sample are not included in the risk assessment. As part of the groundwater investigation, several one-time reconnaissance groundwater samples were collected from borings. The purpose of the reconnaissance groundwater sampling was to determine the optimal location of monitoring wells for measuring water-quality conditions in a particular area (EnviroLogic Resources, 2007). Relative to data collected from reconnaissance groundwater samples, results from monitoring wells are more accurate and reliable indicators of groundwater conditions. Therefore, only analytical results from groundwater samples collected from monitoring wells are used in the HHRA.

Soil and groundwater data determined to be of sufficient quality for use in the risk assessment are presented in Appendix A. Soil GRO, diesel, and heavy-oil results are summarized in Table A-1; soil SVOC results are summarized in Table A-2; soil VOC results are summarized in Table A-3; soil metals results are summarized in Table A-4; and soil PCB results are summarized in Table A-5. Groundwater GRO, diesel, and heavy-oil results are summarized in Table A-6; groundwater SVOC results are summarized in Table A-7; groundwater VOC results are summarized in Table A-8; and groundwater metals results are summarized in Table A-9. Appendix A includes analytical results collected as part of the RI for analytes that were detected in at least one sample. Nondetections of a particular analyte are flagged with a "U" qualifier. The concentration

value for a nondetection is set at half the MRL. Several statistics, such as the frequency of detection, maximum concentration, mean concentration, and median concentration, were calculated for each detected analyte. No attempt was made to average the results of primary and duplicate samples to characterize chemical concentrations for sample locations where multiple analyses were performed.

It should be noted that the data presented in Appendix A are a subset of the analytical data collected as part of the RI. Results for chemicals or entire classes of chemicals that were not detected in any soil or groundwater sample are not presented. For example, many VOCs and PCBs were not detected in soil or groundwater and are not included in Appendix A. Full sets of analytical results, including data for chemicals that have not been detected at the Site, are discussed in the RI report (EnviroLogic Resources, 2007).

Soil-vapor sampling was performed in 2004 at four locations outside the Port office building in an area where light nonaqueous-phase liquid (LNAPL) had been observed in monitoring wells (EnviroLogic Resources, 2005). Sampling was performed in this area because the Port office building was considered to be the most at-risk structure for vapor-intrusion impacts. Vapor samples were collected approximately 5 to 6 feet bgs, and samples were analyzed for BTEX and trimethylbenzenes, using USEPA Method TO-15, and for gasoline-range TPH (TPH-g), using USEPA Method TO-3 (EnviroLogic Resources, 2005). These data underwent a quality assurance review by GeoSyntec Consultants, Inc. The data are presented in Appendix A in Table A-10. It should be noted that a sub-slab vapor investigation of the Port office building is ongoing, and results of the sub-slab investigation will be presented to the DEQ in a separate report.

3.2 COPC Selection

To focus quantitative risk assessment on COIs with the potential to cause health risks to humans who may contact soil and groundwater, the list of chemicals detected at the Site was evaluated and reduced (MFA, 2005). Preliminary COPCs were selected using criteria recommended by the DEQ (2000), the USEPA (1989), and best scientific judgment. Chemicals were selected primarily on the basis of measured concentrations in soil or groundwater, inherent toxicity, and frequency of detection (MFA, 2005).

3.2.1 Soil

In general, COPCs were selected for soil by comparing the maximum concentration detected in soil with relevant USEPA Region 9 industrial soil preliminary remediation goals (PRGs). No PRGs are available for TPH mixtures such as GRO and diesel-range organics (DRO). Therefore, the maximum concentrations of GRO and DRO were compared with DEQ direct-contact soil RBCs for occupational workers (DEQ, 2003). The DEQ has not developed generic RBCs for heavy oil; the DEQ level 2 soil matrix value

of 500 milligrams per kilogram (mg/kg) was used as the screening concentration for heavy-oil-range organics (MFA, 2005).

Industrial soil PRGs are calculated using conservative assumptions regarding intake rates, exposure durations, and other exposure factors for occupational workers (USEPA, 2004c). For example, the PRGs have been developed assuming that workers have chronic exposure to impacted soil over most of their careers (i.e., 250 days per year for 25 years). The target risk levels used by the USEPA when developing these PRGs are identical to the DEQ acceptable risk levels associated with exposure to single chemicals (USEPA, 2004c). The PRG for a carcinogen is the concentration associated with a one-in-a-million excess cancer risk over a lifetime. For a noncarcinogen, the PRG is the concentration associated with a hazard quotient (HQ) of one.

The selection process for COPCs in soil is outlined in Table 3-1. A chemical was not considered to be a COPC if it was detected in less than 5 percent of the soil samples that were tested for the chemical (DEQ, 2000). Chemicals that are infrequently detected in soil may be artifacts of sampling, analytical, or other types of errors.

Risk scores were calculated for each chemical that had been detected in at least one soil sample (Table 3-1). Chemical-specific risk scores were estimated as follows (DEQ, 2000):

$$R_i = \frac{MDC_i}{TSV_i} \qquad \text{(Equation 1)}$$

Where:

R_i = Risk score for chemical *i* (unitless)

MDC_i = Maximum detected concentration of chemical *i*

TSV_i = Toxicity screening value for chemical *i*

A chemical was considered a COPC if the chemical-specific risk score was greater than one (DEQ, 2000). If the risk score was less than one, it was inferred that exposure to the chemical is not likely to result in an unacceptable risk.

In some cases, an individual chemical was not detected at a concentration greater than the risk-based screening level, but the chemical could contribute to risk if multiple chemicals were present. To account for cumulative risks associated with potential exposure to multiple chemicals, the following method was used to determine COPCs, based on relative risk scores (DEQ, 2000):

If $\Sigma R_i > 1$ and $\frac{R_i}{\Sigma R_i} > \frac{1}{N_i}$, then chemical "i" is considered a COPC (Equation 2)

Where:

ΣR_i = Sum of all chemical-specific risk scores.

N_i = Total number of chemicals included in the risk-based screen.

It should be noted that the DEQ COPC-selection process can result in a large number of COPCs that contribute little to overall risk estimates at sites where many analytes are evaluated. Using the DEQ COPC-selection process, the threshold risk score ($1/N_i$) for determining a COPC decreases as the total number of chemicals included in the risk-based screen increases. Fifty different chemicals were detected in at least one soil sample at the Site, several of which may not be related to past Site operations. As a result, chemicals with maximum concentrations 50 times lower than relevant screening levels were included as COPCs because they had risk scores above 0.02 (1/50). Risk assessors at USEPA Region 3 reviewed this type of COPC-selection process and concluded that it often leads to unnecessary work by requiring detailed evaluations of relatively unimportant risk drivers (USEPA, 1993). The USEPA Region 3 uses a chemical-specific target risk level of 0.1 for noncarcinogens and 10^{-6} for carcinogens. If the USEPA Region 3 approach had been used at this Site, the list of COPCs for soil would have been smaller, with little effect on overall risk estimates.

The maximum detected concentration was used to screen COPCs; this approach is conservative (health-protective) because it likely overestimates potential chemical exposures. Based on risk scores calculated using the maximum detected concentrations of chemicals in soil, the following are considered preliminary COPCs (Table 3-1):

<u>VOCs</u>

- Benzene
- n-Butylbenzene
- sec-Butylbenzene
- Ethylbenzene
- Naphthalene
- n-Propylbenzene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Total xylenes

SVOCs

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Dibenzo(a,h)anthracene
- Indeno(1,2,3-cd)pyrene

TPH

- GRO
- DRO
- Heavy-oil-range organics

Metals

- Arsenic
- Chromium
- Lead

As shown in Table 3-1, with the exception of Aroclor 1254, no chemical was eliminated as a COPC in soil based solely on a low site-wide frequency of detection. All other COPCs that were detected in fewer than 5 percent of site-wide soil samples had maximum detected concentrations below screening levels or had no screening value. Therefore, with the exception of Aroclor 1254, the list of COPCs for a particular property within the Site will not include chemicals that were not identified as COPCs for the Site as a whole.

Aroclor 1254 was detected in one of 58 soil samples collected on the former McCall bulk plant (Chevron) facility (Appendix A, Table A-5), and the property-specific frequency of detection is 2 percent. Because the property-specific frequency of detection in soil is less than 5 percent, Aroclor 1254 is not considered a COPC on this property. The single detection of Aroclor 1254 was from a soil sample collected at 4 feet bgs (SB-228) beneath a magnetic anomaly (pipeline). Aroclor 1254 was not detected in a nearby soil sample collected to better define PCB impacts (SB-256). As a result, the spatial distribution of Aroclor 1254 in subsurface soil appears to be very limited. Also, the concentration of Aroclor 1254 in subsurface soil is below the applicable construction worker RBC (see Appendix B). Because the spatial extent of Aroclor 1254 impacts are limited, the frequency of detection is low, and the detected concentration was below the applicable RBC, Aroclor 1254 is not considered a COPC.

Screening levels were not available for several chemicals. As shown in Table 3-1, chemicals for which no screening value was available were considered COPCs. However, these chemicals will not be carried through the quantitative risk assessment because insufficient toxicity data are available to make scientifically defensible risk estimates for these chemicals. Instead, potential risk associated with exposure to these chemicals will be discussed in the uncertainty-evaluation section of the HHRA. Chemicals that were considered COPCs because screening levels were not available are as follows:

- Benzo(g,h,i)perylene
- 4-Isopropyltoluene
- 2-Methylnaphthalene
- Phenanthrene

The results of COPC selection for soil indicate that, with the possible exception of the metals, all COPCs are related to petroleum products. These COPC-selection results support use of the RBDM (DEQ, 2003) to evaluate potential contaminant risks at the Site because contamination that is not related to historical petroleum releases appears to be insignificant. Also, please note that the concentrations of some of the metal COPCs in soil (e.g., arsenic) may not be elevated above natural background levels.

3.2.2 Groundwater

In general, COPCs were selected for groundwater by comparing the maximum concentration with the relevant USEPA Region 9 PRG for tap water (Table 3-2). Because no tap-water PRGs were available for GRO, DRO, and lead, DEQ generic groundwater RBCs for residents were used as screening values for these substances (MFA, 2005). If the maximum concentration was above the screening value, the chemical was considered a COPC.

No attempt was made to identify groundwater COPCs by considering the potential effects of exposure to multiple chemicals in drinking water. As stated previously, groundwater at the Site is not used as a drinking source and is unlikely to be used as a water-supply source in the foreseeable future. Relevant exposure scenarios include industrial workers who may inhale vapors that migrate from groundwater to indoor or outdoor air, and excavation workers who may contact chemicals in water of excavations that extend below the water table. Tap-water PRGs are often orders of magnitude lower than RBCs for the volatilization to indoor and outdoor air pathways and the direct-contact pathway for excavation workers (DEQ, 2003). Therefore, selection of groundwater COPCs based on multiple chemical risk scores where the threshold for selection is a fraction of the tap-water PRG would have led to the unnecessary inclusion of several COPCs that could have only a very small effect on groundwater risk estimates.

Based on chemical-specific risk scores calculated using the maximum detected concentrations of chemicals in groundwater, the following are considered preliminary COPCs (Table 3-2):

VOCs

- 1,2-Dichloroethane
- Benzene
- Ethylbenzene
- Naphthalene
- n-Propylbenzene
- Toluene
- 1,2,4-Trimethylbenzene
- 1,3,5-Trimethylbenzene
- Total xylenes

SVOCs

- Benzo(a)pyrene
- Dibenzo(a,h)anthracene

TPH

- GRO
- DRO

Metals

- Arsenic
- Lead

Screening levels were not available for several chemicals (Table 3-2). As indicated by DEQ (2006), iron, manganese, and magnesium are considered essential nutrients and are not considered COPCs. Similarly, calcium, potassium, and sodium are considered nutrients and are not included as COPCs in groundwater (USEPA, 1989). The chemicals that will be evaluated in the uncertainty section of the HHRA because they were selected as COPCs due to a lack of relevant screening levels are as follows (Table 3-2):

- 4-Isopropyltoluene
- Acenaphthylene
- Phenanthrene
- Heavy-oil-range organics
- Total chromium

Six chemicals not selected as COPCs had at least one MRL above their respective screening levels (Appendix A). MRLs for the PAHs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene exceeded screening levels in four to 25 (depending on the analyte) of 159 groundwater samples. For VOCs, methyl-tert-butylether MRLs exceeded the screening level in 17 of 159 samples. With all six of these chemicals, the large majority of MRLs were below screening levels. These six chemicals do not appear to be important contaminants in groundwater because they were rarely detected even when MRLs were below conservative screening levels.

Again, with a few exceptions, the groundwater COPCs are petroleum-related compounds. Also, please note that some of the metal COPCs may not be elevated above natural background levels.

4 CONCEPTUAL SITE MODEL

The CSM describes potential chemical sources, release mechanisms, environmental transport processes, exposure routes, and receptors. The primary purpose of the CSM is to describe pathways by which human receptors may be exposed to COIs. According to the USEPA (1989), a complete exposure pathway consists of four necessary elements: (1) a source and mechanism of chemical release to the environment, (2) an environmental transport medium for a released chemical, (3) a point of potential contact with the impacted medium (referred to as the exposure point), and (4) an exposure route (e.g., soil ingestion) at the exposure point.

The human-health CSM, based on information that has been collected to date, is shown in Figure 4-1. Elements of potentially complete exposure scenarios are further discussed in Table 4-1. The areas on the Site where each exposure scenario is relevant are shown in Figure 4-2. Processes that could affect the fate and transport of petroleum in the environment and potential exposure scenarios are discussed below.

4.1 Primary Sources

Petroleum impacts to soil and groundwater at the Site have resulted from unintentional releases at a number of petroleum-storage and -handling facilities. Likely sources include USTs, ASTs, pipes, and dispensers. Releases may have occurred from leaks in tanks or pipes and during petroleum transfers (i.e., when products were being dispensed).

4.2 Fate and Transport

The primary mechanisms that affect fate and transport of released petroleum products include leaching from soil to groundwater, volatilization from soil or groundwater to air, advection and dispersion in groundwater, sorption to the soil matrix, and natural degradation processes. The relative importance of these processes in structuring the dynamics of contaminant fate and transport varies, depending on the chemical and physical properties of a released contaminant. The properties of soil and the dynamics of groundwater flow also shape contaminant fate and transport.

It appears that gasoline and diesel are the primary petroleum products that have been released at the Site. Whole gasoline and diesel are considered LNAPLs. LNAPL, or free-

phase petroleum, has a density lower than that of water. As a result, LNAPL releases of a sufficient volume to result in significant gravity-driven downward migration through soil are typically constrained to the top of the groundwater zone. Because LNAPL and water are immiscible, there is little tendency for LNAPL to migrate deep into the groundwater zone. Once the released LNAPL encounters the capillary fringe above the water table (e.g., pore spaces completely or partially saturated with water), the weight of LNAPL will cause it to gradually displace pore water until equilibrium conditions are reached. The relatively high water content of the capillary fringe will result in low permeability to LNAPL, and at this point the downward gradient caused by gravitational forces will diminish. If there is a sufficient volume of released product, the driving hydraulic head will result in lateral migration of LNAPL until steady-state conditions are met (American Petroleum Institute [API], 2002).

Often, the lateral gradient for a product plume is radial because of free product mounding and the resistance presented by water-filled soil to freely transmit LNAPL. Once equilibrium conditions have developed and lateral migration of LNAPL has diminished, LNAPL plumes typically are stable. Unless new product is added to the system or other significant changes occur, there will be no further significant lateral movement of product.

Much of the Site is covered with permeable surfaces such as gravel, and it is likely that precipitation that falls in these areas can percolate through the vadose zone and interact with LNAPL or petroleum that is sorbed to soil. Chemicals with relatively high solubility may leach from soil to pore water, and dissolved chemicals may be transported downward to local groundwater. Also, when the water table rises and interacts with product or petroleum that is sorbed to soil, some constituents will partition into water.

Once in groundwater, dissolved contaminants may be transported by diffusion and advection in groundwater horizontally away from the original source. Horizontal migration with groundwater (advection) is expected to be significantly more extensive than vertical migration. It is most likely that the only significant mechanism that would allow for downward vertical migration of petroleum constituents is diffusion, and this process results in order-of-magnitude reductions in waterborne concentrations over relatively short distances (i.e., several feet) from the source (API, 2002). In general, the potential for a chemical to migrate in groundwater increases as a function of chemical solubility. Many petroleum constituents have relatively low solubility and a low likelihood of extensive migration in groundwater.

Dispersion, retardation, and biodegradation act to reduce dissolved concentrations of petroleum constituents in groundwater downgradient of the source area. A growing body of evidence suggests that in most systems, biodecay is a significant loss mechanism for many petroleum constituents such as benzene (API, 2002).

Some volatile contaminants that are either adsorbed to soil or dissolved in groundwater may volatilize to soil pore spaces. Chemical vapors in pore spaces may eventually migrate through the soil matrix and enter outdoor air. Once these have reached outdoor air, mixing with ambient air is expected to reduce airborne chemical concentrations rapidly and substantially. If buildings are located over groundwater impacted with volatile contaminants, it is possible that vapors may eventually enter indoor air by penetrating cracks in a building floor or foundation.

An intermittent seep with LNAPL has been observed in Slip 2 near the shoreline of the Columbia River. Petroleum constituents in the LNAPL at the seep may migrate to both sediment and surface water. Also, dissolved constituents in groundwater near the seep area may discharge to sediment and surface water of the Columbia River. Concentrations of petroleum constituents in surface water are expected to be low due to mixing with ambient water.

4.3 Exposure Scenarios

Properties at the Site are used for commercial and industrial purposes, and it is likely that they will continue to be used for commercial and industrial purposes for the foreseeable future. Various workers will have the greatest potential to contact contaminated soil or groundwater. Although visitors or trespassers could occasionally visit a property, they are expected to have far less potential to be exposed to soil or groundwater than on-site workers. The types of workers assumed to be present at the Site include occupational workers, occasional excavation workers, and construction workers. Relevant default DEQ (2003) potential exposure scenarios are presented in Table 4-1 and are briefly discussed below for both soil and groundwater.

4.3.1 Soil

Petroleum hydrocarbons have been observed in surface soil (<3 feet bgs) at several locations. In many cases, impacted surface soil is covered with asphalt, gravel, buildings, or other features that prevent workers (occupational, construction, and excavation) from directly contacting contamination. However, it is assumed that exposure barriers that may currently prevent workers from contacting chemicals in surface soil may be removed in the future. Direct-contact exposure routes for workers include incidental soil ingestion, inhalation of vapors or particulates, and dermal contact.

It is assumed that the reasonable maximum depth of future excavations that may be developed at the Site is 15 feet bgs (DEQ, 2003). In addition to contacting surface soil, excavation and construction workers may contact subsurface soil at depths above 15 feet bgs.

The vadose zone is the relatively unsaturated layer of soil that lies above the water table. In the northern section of the Site, near the Columbia River, the water table is located approximately 6 feet bgs (Table 2-1). The thickness of the vadose zone increases to the south. Near West Marine Drive, the water table is approximately 19 feet bgs. It is assumed that there are two pathways by which on-site occupational workers could have indirect exposure to petroleum hydrocarbons in subsurface vadose-zone soil. First, it is assumed that volatile petroleum hydrocarbons in the vadose zone could migrate through the soil matrix and enter outdoor air where they could then be inhaled by outdoor workers. Also, vapors from hydrocarbons in the vadose zone could migrate to the foundation of a building, penetrate the building through cracks in the foundation, and enter indoor air where they could then be inhaled by indoor workers.

Petroleum hydrocarbons have been observed in subsurface, saturated soil at several locations. In general, there is little potential for people to contact petroleum hydrocarbons trapped in soil below the water table. Indirect exposure to petroleum constituents in saturated soil is unlikely because soil that is saturated with water has little air-filled pore space, and this prevents volatile chemicals from partitioning into air and migrating to the soil surface. As mentioned previously, it is conservatively assumed that construction or excavation workers could directly contact soil within 15 feet of the ground surface, even in areas where the water table is typically above this depth.

It should be noted that the DEQ (2003) default exposure assumptions for construction workers assume exposure durations of one year. Many of the properties on the Site are too small to support construction projects that would entail a year of surface or subsurface work where workers could have direct-contact exposures to soil. Although the excavation-worker-exposure scenario is relevant for most of the Site, the construction-worker-exposure scenario is most applicable for large and undeveloped parcels of land that could potentially support large-scale construction projects. To be conservative, the construction-worker-exposure scenario will initially be used to evaluate all properties on the Site.

No residences are present at the Site, and given land-use plans for the area, it is not likely that residences will be developed in the foreseeable future. As discussed previously, one property formerly supported an apartment complex. Occupants of an apartment complex are assumed to have potential exposures similar to those of urban residents (DEQ, 2003). Although the property is no longer an apartment complex, to be consistent with the HHRA Work Plan (MFA, 2005), it was assumed that urban residents could be on the property. As a result, it was assumed that urban residents on this property could have direct contact with surface soil (0 to 3 feet bgs), indirect exposure to volatile chemicals in vadose-zone soil that migrate to outdoor air, and indirect exposure to volatile chemicals in vadose-zone soil located within 50 feet of the former apartment complex that migrate to indoor air.

Although chemicals in soil may leach to groundwater, soil-leaching models were not used to evaluate soil conditions in this HHRA. Soil RBCs for the leaching pathway are estimated using models that simulate partitioning of chemicals from soil to groundwater, and they are designed to protect groundwater that is used for drinking (DEQ, 2003). Groundwater at the Site is not used for drinking. Also, empirical data regarding groundwater quality are available to evaluate risks associated with exposure to impacted groundwater. As a result, model estimates of chemical concentrations in groundwater that may result from leaching are not necessary for the risk evaluation because actual groundwater-quality data can be used for this purpose.

4.3.2 Groundwater

As mentioned previously, the City of Astoria supplies municipal water to facilities in and near the Site. Groundwater at the Site is not used for drinking, and given the availability, reliability, and relatively low cost of the public water supply, it is unlikely that drinking water wells will be developed in the foreseeable future. As a result, human receptors such as occupational workers are not likely to ingest or directly contact site-related chemicals in groundwater.

It is assumed that occupational workers could be exposed to volatile hydrocarbons that migrate from groundwater to indoor or outdoor air. It is also assumed that excavation workers could have direct contact with chemicals in groundwater if an excavation were developed below the water table in the northern part of the Site. It should be noted that the Occupational Safety and Health Administration rules require that excavations be dewatered before worker entry. Therefore, it is unlikely that workers will have substantial direct contact with chemicals in groundwater.

4.3.3 Sediment and Surface Water

Petroleum constituents may have impacted sediment and surface water near an intermittent seep with LNAPL located in Slip 2, near the shoreline of the Columbia River. Potential risks associated with exposure to petroleum near the seep will be evaluated as part of the ecological risk assessment. For a variety of reasons, it is unlikely that potential human receptors would have significant exposure to petroleum constituents in sediment or surface water near the seep.

The human receptors who appear to have the greatest potential to contact sediment and surface water of the Columbia River are recreationists such as fishers or boaters. The seep area in Slip 2 is located in a part of the Site that is actively used for industrial purposes and that is likely to remain an industrial-use area for the foreseeable future. Recreational uses of the Columbia River near the seep are not compatible with site operations. Given the industrial nature of the Site, recreational fishing, clamming, or

crabbing in Slip 2 would be unsafe. As a result, it is unlikely that people will have significant direct contact with impacted sediment.

Dissolved chemicals may migrate to surface water from groundwater or sediment near the seep. Given the small-scale and localized nature of the seep, the relatively small volume of LNAPL that discharges, and the substantial flow of ambient water over the seep area, chemical concentrations in surface water are expected to be low. Due to mixing with ambient water, it is likely that elevated chemical concentrations in surface water would be found only immediately adjacent to impacted sediment. It is unlikely that people would have significant exposure to elevated concentrations of petroleum constituents in surface water.

Several PAHs with relatively high molecular weights are likely present in impacted sediment. It is possible that some of these PAHs can accumulate in the tissues of some aquatic organisms. Vertebrates, including fish, can metabolize PAHs, and these hydrocarbons have little propensity to accumulate in tissues of vertebrates. As a result, it is not likely that people who catch and consume fish near the Site would have significant exposure to site-related chemicals. However, some invertebrates may accumulate some PAHs in tissues.

For several reasons, it is not likely that recreational fishers would have significant exposure to site-related chemicals in tissues of invertebrates. First, available evidence suggests that impacted sediment is restricted to a relatively small area (approximately 150 feet by 50 feet) of intertidal habitat. Given the small size of the impacted area and its periodic submergence, the population of invertebrate prey species with sufficient long-term exposure to accumulate site-related chemicals in tissues is expected to be small. As mentioned previously, it is not likely that recreational fishers would harvest invertebrates in or immediately adjacent to the impacted area. It is also not likely that recreational fishers would harvest and consume a sufficient number of local invertebrates that have migrated from the impacted area to have significant dietary exposure to site-related chemicals.

In summary, direct-contact exposures with impacted sediment and surface water are considered potentially complete, but insignificant, exposure pathways. Similarly, indirect exposure to site-related PAHs that may accumulate in tissues of invertebrates that are harvested and consumed by fishers is also considered an insignificant exposure pathway. Thus, these exposure pathways are not quantitatively evaluated in this HHRA.

5 RISK CHARACTERIZATION

Consistent with the risk evaluation framework for petroleum-contaminated sites outlined in the RBDM (DEQ, 2003), risk estimates were made by comparing concentrations of COPCs in soil and groundwater with applicable RBCs. As mentioned previously, an RBC is an estimate of the concentration of a chemical in the exposure unit that would not pose unacceptable risks to humans with an RME to impacted soil, groundwater, or air. If the concentration of a COPC is below an applicable RBC, it is inferred that exposure to the chemical will not result in unacceptable human health risks. Alternatively, if concentrations of a COPC are greater than an applicable RBC, either further evaluation of potential health risks may be warranted, or it can be concluded that the contamination may pose unacceptable health risks and requires some form of risk management.

5.1 Risk-Based Concentrations

The RBCs used to evaluate risks associated with potential exposure to soil and groundwater are discussed below. In general, generic DEQ RBCs were selected for most COPCs and most exposure scenarios. Site-specific groundwater RBCs were developed for volatile chemicals that may migrate from groundwater to indoor or outdoor air.

5.1.1 Soil RBCs

The DEQ has established generic soil RBCs for all of the soil COPCs, with the exception of heavy-oil-range organics and total chromium (DEQ, 2007). The screening process for total chromium, arsenic, and heavy-oil-range organics is discussed below.

5.1.1.1 Chromium

The DEQ has calculated soil RBCs for chromium III and chromium VI, but not total chromium (DEQ, 2007). Soil RBCs for chromium VI are lower than those for chromium III. It was conservatively assumed that all chromium in soil is chromium VI. The DEQ occupational worker RBC for chromium VI in soil is 180 mg/kg, which is higher than the maximum concentration of total chromium detected in soil. Chromium is not considered a volatile chemical and is not expected to migrate from subsurface soil to indoor or outdoor air.

5.1.1.2 Arsenic

Arsenic was selected as a COPC because concentrations in soil are above the industrial soil PRG that was used as a screening level in COPC selection. The DEQ occupational worker RBC for arsenic in shallow soil is 1.7 mg/kg (DEQ, 2007). Natural background concentrations of arsenic in soil of much of western Oregon are above the Region 9 PRG and the DEQ RBC. Based on the distribution of arsenic concentrations in soil, there is no compelling evidence of significant anthropogenic arsenic contamination. Instead, it appears that the arsenic in soil occurs naturally. For example, the 90th percentile arsenic concentrations for the State of Washington is 7 mg/kg (see Table A-4 in Appendix A), and the value for Clark County, Washington, is 6 mg/kg (Washington State Department of Ecology [Ecology], 1994). As shown in Table A-4 in Appendix A, the 90th percentile arsenic concentration in soil at the Site is 4.6 mg/kg. Similarly, the 95th percentile arsenic concentration in soil of British Columbia, Canada, ranges from 10 to 20 mg/kg, depending on region (British Columbia Ministry of Environment [BCE], 2005). At the Site, the 95th percentile arsenic concentration is 6.7 mg/kg (Table A-4, Appendix A). These results suggest that arsenic in soil at the Site is not elevated above natural background levels of the region.

Of the 77 soil samples analyzed for arsenic, only five had concentrations above the Clark County 90th percentile, two sample results were above the Washington State 90th percentile, and only a single sample result was above a 95th percentile for soil in British Columbia (Table A-4, Appendix A). Given that arsenic concentrations in soil at the Site are consistent with natural background levels and there are no significant known anthropogenic sources of arsenic, arsenic is not considered a site-related hazardous substance.

5.1.1.3 Heavy-Oil-Range Organics

At the time the RI sampling program was developed, the DEQ recommended evaluating risks associated with exposure to petroleum mixtures by focusing on key constituents that were relatively well studied and known to be particularly toxic components of petroleum (American Society for Testing and Materials [ASTM], 1995; DEQ, 1999). Current DEQ (2003) guidance recommends evaluations of individual constituents and of whole petroleum mixtures such as gasoline and diesel. Although the DEQ has developed generic RBCs for gasoline and diesel, RBCs have not been developed for heavy oil. Therefore, potential risks associated with exposure to heavy-oil-range organics will be evaluated using the 1999 RBDM framework by comparing concentrations of key constituents in heavy-oil-range organics (i.e., PAHs) to applicable constituent RBCs. The PRP group initially presented this assessment approach to the DEQ in late 2003, shortly after the most recent RBDM guidance was released.

5.1.2 Groundwater RBCs

There are three scenarios by which human receptors may have significant exposure to COPCs in groundwater: inhalation of volatile chemicals that migrate to outdoor air, inhalation of volatile chemicals that migrate from groundwater to indoor air, and direct contact with water in an excavation. With the exception of lead, DEQ groundwater RBCs are available for all of the groundwater COPCs. Lead is not considered a volatile hazardous substance (DEQ, 2000; USEPA, 2004c) and is not likely to migrate from groundwater to air in the vapor phase. A DEQ excavation worker RBC has not been developed for lead, and potential risks associated with exposure to lead in groundwater is evaluated in the uncertainty section (Section 6). The DEQ RBCs for excavation workers who may contact groundwater consider two potential exposure routes (DEQ, 2003): workers who have dermal contact with water in an excavation, and workers who inhale volatile chemicals that migrate from water to outdoor air of the excavation. The only significant pathway by which excavation workers may be exposed to lead is through dermal contact with groundwater in an excavation. This is expected to occur infrequently and for short exposure durations, and there do not appear to be any well-established methods for estimating lead risks associated with short-term exposure to water (USEPA, 2003). In general, dermal uptake of waterborne metals is a poorly understood process, and essential information for estimating dermal risks, such as permeability coefficients, are not available for most metals (USEPA, 2004b).

Two metal COPCs were selected for groundwater: arsenic and lead. However, based on the distribution of arsenic and lead concentrations in groundwater (Table A-9, Appendix A), there is no evidence of widespread metals contamination in groundwater. As mentioned previously, arsenic concentrations in soil do not appear to be elevated above natural background levels, and arsenic concentrations in groundwater may not be elevated above natural concentrations. Also, with the exception of monitoring well MW-28, concentrations of lead have not been consistently detected above the USEPA maximum contaminant level (MCL) of 0.015 milligrams per liter (mg/L) (the concentration limit for lead in municipal drinking-water supplies) in any monitoring well at the Site (Table A-9, Appendix A). The concentrations of lead at monitoring well MW-28 have been only slightly above the MCL. Groundwater at the Site is not used for drinking purposes. Given that arsenic may be a naturally occurring element in groundwater at the Site and lead concentrations are infrequently above drinking-water standards, it is unlikely that these metals could pose unacceptable risks to workers who have dermal contact with groundwater in an excavation.

5.1.2.1 Site-Specific Adjustment

The DEQ's RBDM guidance (2003) outlines a process for developing site-specific RBCs when conditions at a site may differ from the assumed DEQ default conditions. Because some soil conditions at the Site differ from DEQ default estimates, site-specific groundwater RBCs were developed for indirect exposure pathways (e.g., volatilization to outdoor air and vapor intrusion into buildings).

The DEQ spreadsheet model system for calculating RBCs was used to estimate site-specific RBCs (Appendix B). Specifically, a site-specific estimate of the thickness of the capillary fringe was used to better estimate RBCs associated with indirect exposure to VOCs in groundwater. The capillary fringe is a zone of partially saturated soil located immediately above the water table. Water enters this zone through the process of capillary attraction, which is an upward force caused, in part, by surface tension at the air-water interface. Because soil in the capillary fringe has a higher water-filled porosity than that of the overlying vadose zone, the thickness of the capillary fringe can have an important effect on vapor migration (i.e., a thicker capillary fringe results in less vapor migration).

The thickness of the capillary fringe (L_{cap}) is a function of soil type. The USEPA (Environmental Quality Management, 2004) presents the following equation to estimate L_{cap}, given groundwater conditions consistent with those found at the Site:

$$L_{cap} = \frac{0.15}{0.2 \times D} \qquad \text{(Equation 3)}$$

Where:

D = Mean soil particle diameter (centimeters [cm])

Sieve analyses were performed on seven soil samples as part of the Phase 1 investigation (EnviroLogic Resources, 2002a). Based on linear interpolation, the median particle diameter in millimeters (mm) for each of the seven soil samples is as follows: 0.21, 0.41, 2.36, 0.15, 0.17, 0.27, and 0.23. The mean of these particle diameter estimates is 0.55 mm or 0.055 cm. The site-specific mean particle diameter estimate is very similar to the USEPA default mean particle diameter of 0.044 cm for sandy soil (Environmental Quality Management, 2004). Using the mean particle diameter from the seven sieve analyses, the estimated capillary fringe thickness is 14 cm.

5.1.3 Soil-Gas RBCs

Soil-vapor sampling was performed outside of the Port office building to determine the potential for volatile COPCs to migrate from impacted media beneath the building into indoor air (EnviroLogic Resources, 2005). These vapor samples were analyzed for petroleum-related VOCs. To aid in interpretation of soil-vapor data, RBCs for soil gas were estimated as follows:

$$RBC_{sg} = \frac{RBC_{air}}{\alpha} \qquad \text{(Equation 4)}$$

Where:

RBC_{sg} = Soil gas RBC in micrograms per cubic meter ($\mu g/m^3$)

RBC_{air} = DEQ's generic occupational worker RBC for air ($\mu g/m^3$)

α = Attenuation factor relating concentrations of volatile chemicals in soil gas with estimated concentrations in indoor air (unitless).

The USEPA advanced soil-gas model (SG-ADV Version 2, 02/04) (USEPA, 2004a) was used to estimate infinite source attenuation factors for petroleum-related VOCs. The attenuation factor is the ratio of the estimated indoor-air concentration over the concentration in soil gas. The initial soil-gas concentration was set to 1 $\mu g/m^3$, and the model was run to estimate the resultant infinite source attenuation factor. With the exception of the following parameters, the default USEPA values were used to calculate volatilization factors:

- The average soil/groundwater temperature (T_s) was estimated at 13ºC. This temperature estimate was made by interpolating between isopleths on Figure 8 of the *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings* (Environmental Quality Management, 2004).

- The building construction is slab-on-grade, and the default value of 15 cm was used for the depth below grade to the bottom of the enclosed-space floor (L_F).

- Soil-gas samples were collected approximately 5 feet bgs, and the soil gas sampling depth below grade (L_s) was set to 152 cm.

- The thickness of soil stratum A (h_A) was set to 152 cm in this model, and soil strata B and C thicknesses were set to 0 cm. Soil stratum A was assumed to consist of sand.

- Building dimensions were set at estimates of the first floor length (L_B), width (W_B), and height (H_B) of approximately 4145 cm, 1615 cm, and 320 cm, respectively. USEPA default values were used for all other building characteristics (enclosed-space floor thickness, soil-building pressure differential, floor-wall seam crack width, and indoor-air exchange rate).

- The building indoor air exchange rate was set at the DEQ (2003) default for an occupational setting of two exchanges per hour. USEPA default values were used for all other building characteristics (enclosed-space floor thickness, soil-building pressure differential, and floor-wall seam crack width).

- The USEPA default estimate of the average vapor flow rate into a building (Q_{soil}) of 5 liters per minute is based on studies of residential structures and is not applicable to larger commercial or industrial buildings. Q_{soil} was estimated based on the building floor area, using the following approach that was discussed with the DEQ in a meeting held on May 17, 2006:

$$Q_{soil} = 5 L/\min \times \frac{Area(m^2)}{100(m^2)} \qquad \text{(Equation 5)}$$

Analytical results from soil gas samples were presented by the laboratory in units of parts per billion by volume (ppbv) for most chemicals (Appendix A). Soil gas RBC concentrations in units of µg/m^3 were converted to units of ppbv by using the molecular weight of a chemical.

GRO is a complex mixture of numerous hydrocarbons. The attenuation factor for benzene was used as a surrogate to estimate a conservative soil-vapor RBC for GRO because it is likely that most typical GRO hydrocarbons are less volatile than benzene. The GRO soil-vapor results were presented by the laboratory in units of parts per million by volume (ppmv). The GRO RBC was converted from units of µg/m^3 to ppmv, using a weighted-average GRO molecular weight of 103 grams per mole. This weighted average was calculated using the molecular weights and relative abundance (by mass) of GRO hydrocarbons (i.e., aliphatic and aromatic hydrocarbons with effective carbon numbers ranging from 5 through 12, n-hexane, BTEX, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and naphthalene) in fresh gasoline (DEQ, 2003). Attenuation factors calculated using the USEPA vapor-intrusion model (USEPA, 2004a) and a table with soil-vapor RBCs are presented as Appendix C.

5.2 Soil Risk Results

Tables summarizing analytical results and applicable RBCs are included in Appendix A. RBCs are included only for COPCs. Table 5-1 presents analytical results from soil samples where at least one COPC was detected at a concentration greater than an applicable RBC. These exceedances of RBCs are discussed in greater detail below.

5.2.1 Metals

Three metals were selected as COPCs for soil: arsenic, chromium, and lead. As mentioned above, arsenic is not considered a site-related contaminant because arsenic concentrations do not appear to be elevated above natural background levels.

As shown in Table 5-1 and Table A-4 in Appendix A, no soil sample collected at the Site had a concentration of chromium or lead that exceeded an RBC. In fact, very few soil

samples had concentrations of chromium or lead that appeared to be elevated above natural background concentrations. As a result, chromium and lead in soil are unlikely to pose unacceptable risks to potential human receptors.

5.2.2 VOCs

Two petroleum-related VOCs were detected in at least one soil sample at a concentration greater than an applicable RBC (Table 5-1): benzene and 1,3,5-trimethylbenzene. These two VOCs were detected at concentrations that exceeded generic DEQ vapor-intrusion RBCs, but no other applicable RBCs.

In AOC 1, four soil samples had a concentration of benzene above the generic DEQ RBC for vapor intrusion into a commercial or industrial building (1.2 mg/kg): SB-602 (7.8 mg/kg), SB-605 (3.2 mg/kg), SB-820 (3.5 mg/kg), and SB-821 (1.3 mg/kg). Also, the concentration of 1,3,5-trimethylbenzene in a soil sample collected at SB-602 (189 mg/kg) was above the generic DEQ vapor-intrusion RBC (Table 5-1).

It appears that there are two separate areas within AOC 1 where concentrations of benzene in subsurface soil are above the generic DEQ vapor-intrusion RBC. One area is near the southern portion of the property boundary between the Niemi Oil cardlock and Qwest facilities, and includes sample locations SB-820 and SB-821 (Figure 5-1). The other area is the north central portion of the Niemi Oil cardlock facility, including sample locations SB-602 and SB-605 (Figure 5-1). No buildings that are commonly occupied by workers are within 50 feet of these locations, and benzene in soil will not pose an unacceptable risk to current workers. It is assumed that a building could be developed over portions of the benzene-impacted soil in the north central portion of the Niemi Oil cardlock facility. However, as explained further below, it is not likely that a building could be developed over benzene-impacted soil along the western boundary of the Niemi Oil cardlock facility.

A sewer line right-of-way is present immediately east of the Qwest and Niemi Oil cardlock property boundary and runs parallel to the property boundary. It appears that benzene impacts to subsurface soil in this area are limited to soil immediately adjacent to this utility corridor. Soil samples with benzene concentrations above the DEQ vapor-intrusion RBC (SB-820 and SB-821) were collected at least 5 feet bgs (Table 5-1) near backfill material in the utility corridor. Benzene was not detected in subsurface soil samples collected within approximately 30 feet of the utility corridor (SB-600, SB-632, and SB-407). Benzene impacts may be limited to soil in or very near the utility corridor because the relatively porous fill material in the corridor may have historically provided a preferential migration pathway for gasoline or gasoline-impacted groundwater. Buildings that may limit access to utilities are generally prohibited (Gift, 2006). Therefore, it is not likely that a future building will be developed over this area where benzene concentrations in subsurface soil are above a vapor-intrusion RBC.

In AOC 2, one of the approximately 22 soil samples collected on or near the former Delphia Oil facilities had a concentration of benzene above the generic vapor-intrusion RBC (Table 5-1). The sample collected from SB-316 at 10 feet bgs at the former Val's Texaco facility had a concentration of benzene of 1.52 mg/kg, which is slightly higher than the generic DEQ RBC (Figure 5-1). No building commonly occupied by workers is within 50 feet of this sample location. The former Val's Texaco building is currently vacant. It appears that the areal extent of benzene-impacted soil is small relative to the footprint of most commercial or industrial buildings. For example, benzene concentrations in several surface and subsurface soil samples collected within approximately 50 feet of SB-316 were below the generic vapor-intrusion RBC. Because typical commercial or industrial buildings at the Site have footprints that are larger than the areal extent of impacted soil, even if a future building were placed directly over SB-316, it appears that only a portion of the building footprint would overlie soil with benzene concentrations above the generic DEQ vapor-intrusion RBC.

In AOC 4, concentrations of benzene in several soil samples collected in the subsurface near the zone with LNAPL were above the generic DEQ vapor-intrusion RBC protective of occupational workers (Table 5-1). Also, a soil sample collected at SB-612 had a concentration of 1,3,5-trimethylbenzene that was above the generic DEQ vapor-intrusion RBC (Figure 5-1). Based on data collected using cone penetration testing during the RI, it appears that most of these samples were collected in or near the smear zone (EnviroLogic Resources, 2007). Two soil samples collected north of the Port shop building (SB-507 and SB-006) and just outside of the inferred LNAPL plume also had benzene concentrations that were above the vapor-intrusion RBC for soil (Figure 5-1). Most of the soil samples with a VOC concentration above a vapor-intrusion RBC were collected in the southern third and the western half of the LNAPL plume (Figure 5-1). In general, this portion of the LNAPL plume comprises a relatively large proportion of gasoline-related hydrocarbons (EnviroLogic Resources, 2007).

5.2.3 PAHs

Three PAHs (benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene) were detected in at least one soil sample at a concentration greater than an applicable RBC (Table 5-1). Only two soil samples had concentrations of a PAH that exceeded an applicable RBC (Table 5-1): SB-255, collected at 7 feet bgs, and SB-008, collected at 2 feet bgs.

On the former Chevron/McCall bulk plant facility in AOC 3, the concentration of benzo(a)pyrene in the sample collected from SB-255 at 7 feet bgs was above the DEQ construction-worker RBC (Figure 5-1). A shallower soil sample collected at 2.5 feet bgs at SB-255 had concentrations of PAHs that were well below applicable RBCs (Table A-7, Appendix A). As a result, it appears that soil with a concentration of benzo(a)pyrene

above an RBC is limited to a discrete subsurface zone that underlies relatively uncontaminated soil.

For a variety of reasons, additional risk-management actions do not appear warranted for soil on the Chevron/McCall facility. First, the soil where benzo(a)pyrene was detected above a construction-worker RBC is located beneath a newly constructed parking lot, and it is unlikely that an excavation will be made in this area for the foreseeable future. Even if a future excavation was made in the area, it is unlikely that the average concentration of benzo(a)pyrene in soil that a construction worker may contact (e.g., exposure concentration) would be above the construction-worker RBC. As mentioned previously, shallow soil in this area (e.g., <3 feet bgs), soil that is more likely to be contacted by construction workers than deeper soil, had a concentration of benzo(a)pyrene that was below the applicable RBC. All other soil samples collected at the facility had concentrations of benzo(a)pyrene that were below the construction-worker RBC. As a result, the area of soil with a concentration of benzo(a)pyrene above a construction-worker RBC appears to be too small and is located too far below the ground surface to pose a significant risk to potential future construction workers.

A sample collected at 2 feet bgs from SB-008 near the Port maintenance building in AOC 4 had concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene that were above occupational- and construction-worker RBCs (Figure 5-1). These PAHs were not detected in a sample collected at 7.5 feet bgs, indicating that impacts are restricted to shallow soil (Table 5-1).

5.2.4 DRO

In AOC 2, a soil sample collected at 12 feet bgs from SB-904 on the former Shell Oil Company facility had a concentration of DRO of 23,100 mg/kg that was slightly above the construction-worker RBC of 23,000 mg/kg (Table 5-1 and Figure 5-1). If this maximum detected concentration of DRO in soil at the facility is used to represent the average concentration a worker may contact, the chemical-specific HQ expressed with one significant unit (see DEQ, 2000) is one (i.e., HQ=23,100/23,000=1.004); this chemical-specific risk estimate meets, but does not exceed, the acceptable risk level. In fact, construction workers will not limit their potential exposure activities only to the area with the maximum detected concentration, and the average concentration of DRO a construction worker may contact will be lower than the maximum. For example, most construction work occurs at or near the ground surface, and most excavations extend only a few feet from the ground surface. The concentration of DRO in shallower soil at SB-904 (at 4 feet bgs), soil that is more likely to be encountered than deeper soil, was well below the RBC. Because the only soil with concentrations of DRO above the construction-worker RBC is below the depth of most excavations, and because the spatial extent of DRO impacts above the RBC is small relative to the construction-worker exposure unit, DRO in soil at the facility are not expected to pose unacceptable risks to

potential construction workers. Also, as discussed in greater detail in Section 6, construction workers are expected to have acute or subchronic exposure durations, but RBCs for DRO are calculated using chronic toxicity data and overestimate potential risks.

In AOC 4, DRO concentrations in soil samples collected from SB-027, SB-021, and SB-510 were above the construction-worker RBC. All of these samples were collected approximately 10 to 12 feet bgs in what appears to the smear zone in the northeast portion of the inferred LNAPL plume (Figure 5-1).

5.2.5 Heavy-Oil-Range Organics

As mentioned previously, the DEQ has not developed generic RBCs for heavy-oil-range petroleum mixtures. A heavy-oil-range organics screening level of 500 mg/kg was used in COPC selection (see Section 3) because the Site would be classified as a Soil Matrix Level II facility if the Soil Matrix Scoresheet were used to determine cleanup levels for TPH. The Soil Matrix cleanup level is a conservative screening level that is not based on precise risk estimates.

Consistent with the 1999 RBDM approach that was in effect when the RI began, potential risks associated with exposure to heavy-oil-range organics are estimated by comparing concentrations of key petroleum constituents in the heavy-oil range (i.e., PAHs) to applicable chemical-specific RBCs. Specifically, a cumulative risk estimate was made by summing chemical-specific risk estimates for all PAH constituents in soil samples where heavy-oil-range organics concentrations were above 500 mg/kg and SVOC data were also available.

As shown in Table 5-2, a total of 21 soil samples had concentrations of heavy-oil-range organics above the screening level. In ten of these soil samples, analyses were performed for both TPH and PAHs, although PAH COPCs were detected in only eight of the soil samples (Table 5-3). All of the PAH COPCs that were detected in these samples were carcinogens (Table 5-3). One-half of the MRL was used as the concentration of a COPC when the chemical was not detected above the MRL. Chemical-specific lifetime potential excess cancer risks were estimated as follows:

$$LECR = \frac{C_{soil} \times TR}{RBC} \qquad \text{(Equation 6)}$$

Where:

LECR = Lifetime excess cancer risk (unitless).

C_{soil} = COPC concentration in the soil sample (mg/kg).

TR = Target cancer risk level used by the DEQ to calculate RBCs of 1 x 10^{-6}.

RBC = DEQ RBC (mg/kg). Occupational worker RBCs were used for soil samples collected 0 to 3 feet bgs, and construction worker RBCs were used for soil samples collected 3 to 15 feet bgs.

As shown in Table 5-3, total potential excess cancer-risk estimates were generally several orders of magnitude below the DEQ acceptable risk level associated with exposure to multiple carcinogens of 1 x 10^{-5}. These results indicate that most of the heavy-oil-range petroleum mixtures at the Site do not contain high concentrations of the relatively toxic key constituents of petroleum.

5.3 Groundwater Risk Results

Four COPCs were detected in groundwater at concentrations greater than an applicable RBC: benzene, 1,2,4-trimethylbenzene, naphthalene, and GRO (Table 5-4). Only generic DEQ RBCs protective of excavation workers who may have direct contact with groundwater were exceeded. As discussed in greater detail in Section 6, the excavation-worker RBCs are calculated using a number of unrealistic assumptions that likely overestimate excavation-worker risks, and risk estimates based on comparisons with these RBCs have considerable uncertainty.

Groundwater samples collected from four monitoring wells in AOC 1 had concentrations of 1,2,4-trimethylbenzene, naphthalene, or GRO above the construction-worker RBC: MW-26, MW-28, MW-29, and MW-30. Two of these monitoring wells are located on the Niemi Oil cardlock facility (MW-26 and MW-28), one is located in the Industry Street right-of-way (MW-29), and one (MW-30) is located on Port property north of the Burlington Northern railroad tracks (Table 5-4 and Figure 5-2).

GRO were detected at a concentration above the construction-worker RBC in a groundwater sample collected from monitoring well MW-13 on the Delphia Oil facility in AOC 3 (Appendix A, Table A-6), but the depth to groundwater at this location is below the depth of most excavations (Table 2-1). As a result, excavation workers are unlikely to contact groundwater at this location, and the exposure pathway is considered incomplete (Figure 4-2).

In AOC 4, groundwater samples collected from three monitoring wells had concentrations of benzene, 1,2,4-trimethylbenzene, naphthalene, or GRO that were above the construction-worker RBC: MW-40, MW-42, and MW-44 (Table 5-4). All three of these monitoring wells are located in the general area where LNAPL is present on groundwater (Figure 5-2).

5.4 Soil Gas Risk Results

Soil-vapor sampling was performed outside of the Port office building to determine the potential for volatile COPCs to migrate from impacted media beneath the building into indoor air (EnviroLogic Resources, 2005). Analytical results of soil-vapor samples are presented in Appendix A, Table A-10. In three soil-vapor sample locations (SVP-01, SVP-02, and SVP-03), concentrations of benzene were above the soil-vapor RBC (Figure 5-3). Concentrations of GRO were also above the soil-vapor RBC in soil-vapor sample SVP-01. No other VOCs were detected in soil vapor at concentrations that exceeded a soil-vapor RBC (Table 5-5). As mentioned previously, a sub-slab vapor investigation is being performed for the Port office building, and results of this investigation will be presented to DEQ in a separate report.

5.5 Urban Residents

A four-unit apartment complex was located on West Marine Drive just west of the Harris/Van West property (Figure 2-2). This apartment complex has been demolished, and this property will likely be redeveloped for commercial uses. Given current zoning, land-use plans, and development trends, it is not likely that single- or multi-family residences will be developed at the Site in the foreseeable future.

To be consistent with the HHRA Work Plan (MFA, 2005), potential risks to hypothetical urban residents were evaluated in the area of the former apartment complex. Concentrations of COPCs in soil and groundwater samples collected within 50 feet of the apartment complex were compared with DEQ RBCs for urban residents (see Appendix D). Analytical results from soil and groundwater samples collected within 50 feet of the former apartment complex are presented in Appendix D. Concentrations of GRO and DRO in both surface and subsurface soil samples collected near the former apartment complex were below applicable RBCs (Table D-1, Appendix D). SVOCs (Table D-2, Appendix D) and VOCs (Table D-3, Appendix D) were rarely detected in soil near the former apartment complex, and all detected concentrations of these chemicals were below applicable RBCs. In groundwater, concentrations of GRO and DRO (Table D-4, Appendix D), SVOCs (Table D-5, Appendix D), and VOCs (Table D-6, Appendix D) were all below urban-resident RBCs. As a result, COPCs in soil and groundwater near the former apartment complex will not pose unacceptable risks to hypothetical urban residents.

5.6 Hot-Spot Evaluation

The DEQ's Environmental Cleanup Rules (Oregon Administrative Rules [OAR] 340-122) specify that the balancing factors used in remedy selection be weighted differently for areas considered hot spots of contamination compared to areas that are not hot spots.

The criteria for determining groundwater hot spots differ from those for media other than water (DEQ, 1998).

Three conditions are used to determine hot spots of contamination in media other than water (OAR 340-122-115(31)(b)). These three conditions are termed "highly concentrated" material, "highly mobile" contamination, and contamination that is "not reliably containable" (DEQ, 1998). Highly concentrated soil hot spots are defined as areas where site-related chemicals are present at levels exceeding RBCs corresponding to 100 times the acceptable risk level for human exposure to each individual carcinogen, and ten times the acceptable risk level for human exposure to each individual noncarcinogen (DEQ, 1998). As shown in Table 5-1, no single carcinogen was detected in soil at a concentration greater than 100 times an applicable RBC, and no noncarcinogen was detected in soil at a concentration greater than ten times an applicable RBC. As a result, no highly concentrated hot spots were identified for soil.

The DEQ typically assumes that direct exposure to LNAPL represents an unacceptable risk (DEQ, 2003), and that zones with a significant volume of LNAPL represent "highly mobile" hot spots (DEQ, 1998). As mentioned previously, a zone of LNAPL is present in AOC 4. LNAPL also has been identified in monitoring well MW-15A at the former Delphia Oil facility. Delphia Oil has initiated an investigation of the nature and extent of this LNAPL. Both of these zones of LNAPL may be considered highly mobile hot spots.

For groundwater, a hot spot exists if a hazardous substance is having a significant adverse effect on the beneficial uses of that resource, and if restoration or protection of the beneficial use can occur within a reasonable amount of time. Because it must be feasible to treat areas of contaminated groundwater before they are considered hot spots, hot spots will be characterized as part of the FS. However, a preliminary evaluation of hot spots in groundwater is described below.

As mentioned previously, shallow groundwater at the Site is not used as a source of drinking water and is unlikely to be used as a water-supply source in the foreseeable future. Consistent with DEQ guidance (DEQ, 1998), preliminary hot spots in groundwater are defined as areas where COPC concentrations are above applicable RBCs (e.g., construction/excavation worker).

Groundwater samples collected from four monitoring wells (MW-26, MW-28, MW-29, and MW-30) in AOC 1, and from three monitoring wells (MW-40, MW-42, and MW-44) in AOC 4, had concentrations of at least one COPC that were above an applicable construction-worker RBC. These two zones of groundwater contamination are considered preliminary hot spots, and final hot spot determinations will be made in the FS.

5.7 Risk Summary

Based on risk estimates made using analytical results of soil, groundwater, and soil-gas samples, there are several discrete areas with chemical impacts that may pose unacceptable risks to workers. These relatively well-defined areas are discussed below.

5.7.1 AOC 1

In the north central portion of the Niemi Oil cardlock facility, the concentrations of benzene in subsurface soil are above the generic DEQ vapor-intrusion RBC. Although there currently are no buildings near this location, it is assumed that a building could be developed over benzene-impacted soil in this area at some time in the future. As a result, it is assumed that the benzene-impacted soil has the potential to pose unacceptable risks to indoor workers of a hypothetical building in the north central portion of the facility.

Benzene was also detected above the DEQ generic vapor-intrusion RBC in subsurface soil samples collected in the southern portion of the Niemi Oil cardlock facility near the property boundary with the Qwest facility. However, benzene-impacted soil in this area appears to be associated with the utility corridor, and it is unlikely that a building will be developed over this utility corridor in the foreseeable future. As a result, benzene-impacted soil near the utility corridor is not expected to pose unacceptable risks to future indoor workers.

Shallow groundwater beneath some portions of the Niemi Oil cardlock facility has concentrations of 1,2,4-trimethylbenzene, naphthalene, or GRO above excavation-worker RBCs. Also, groundwater from monitoring well MW-30 located on Port property north of the Burlington Northern railroad tracks had concentrations of naphthalene and GRO above excavation-worker RBCs.

5.7.2 AOC 2

One soil sample collected at the former Delphia Oil Val's Texaco facility had a concentration of benzene above the generic vapor-intrusion RBC (Figure 5-1). There are no buildings commonly occupied by workers within 50 feet of this sample location. It appears that the areal extent of benzene-impacted soil is small relative to the footprint of most commercial or industrial buildings, and only a portion of any future building would overlie soil with benzene concentrations above the generic DEQ vapor-intrusion RBC.

LNAPL has been identified on groundwater beneath the Delphia Oil bulk facility. Delphia Oil is currently investigating the nature and extent of LNAPL impacts. The zone with LNAPL contamination may be considered a hot spot.

5.7.3 AOC 4

Petroleum-related chemicals in soil, groundwater, and soil gas of the portion of AOC 4 with LNAPL can pose unacceptable risks to workers. Concentrations of benzene in several subsurface soil samples collected in what appears to be the smear zone were above the generic DEQ vapor-intrusion RBC protective of occupational workers (Table 5-1). Similarly, concentrations of benzene in soil-gas samples collected over the LNAPL zone were above soil-gas RBCs protective of workers who may inhale benzene in the indoor air of a building (Table 5-1). At present, the Port office building is the only existing building overlying the LNAPL plume that routinely houses workers. A subslab-vapor investigation is being performed on this building to better evaluate potential vapor-intrusion risks.

It should be noted that several risk-management actions have been implemented to limit current worker exposures to vapors that may migrate from the subsurface. For example, upgrades have been made to the building's air management system to create positive pressure within the building relative to without, and this pressure gradient is intended to limit vapor migration into the building. Results from the upcoming subslab-vapor investigation will be used to determine the scope of any additional risk-management actions to prevent vapor intrusion into the building.

New Port office buildings are planned on the former bulk plant property, some of which will be located over the LNAPL plume. DEQ-approved interim remedial measures will be implemented at the time of construction to mitigate risks that impacted soil or groundwater may pose to excavation workers or future building occupants. These remedial measures may include a Contaminant Media Management Plan and a sub-slab vapor barrier.

In addition to exceedances of vapor-intrusion RBCs, concentrations of DRO in soil samples collected from the smear zone in the northeast portion of the inferred LNAPL plume were above the construction-worker RBC. Also, groundwater samples collected from monitoring wells in the general area where LNAPL is present on groundwater had concentrations of benzene, 1,2,4-trimethylbenzene, naphthalene, or GRO that were above the construction-worker RBC. As a result, petroleum-related chemicals in the area with LNAPL may also pose unacceptable risks to potential construction workers, and the zone of LNAPL may be considered a hot spot.

A surface-soil sample collected near the Port maintenance building had concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene that were above occupational- and construction-worker RBCs (Figure 5-1). The source of PAH impacts at this location is likely different from the source(s) of LNAPL in AOC 4.

6 UNCERTAINTY ANALYSIS

Uncertainty is inherent in many aspects of the risk-assessment process. A semi-quantitative approach for evaluating uncertainty is recommended by the USEPA (1989). The approach involves listing identifiable uncertainties associated with the parameters used to calculate risks, then gauging both the magnitude and direction of potential bias (i.e., over- or underestimation of actual risk) for each type of uncertainty.

Risk estimates are calculated by combining site data, assumptions about human exposures to impacted media, and toxicity data. The multitude of conservative assumptions used in this risk assessment means that the risk estimates are virtually assured to be overestimated. The uncertainties in a risk assessment can be grouped into the following main categories:

- Environmental sampling and analysis
- Environmental transport modeling
- Exposure assumptions
- Toxicity data and dose-response evaluations
- Combinations of sources of uncertainty

With few, if any, exceptions, when substantial uncertainty was associated with a variable used in modeling or risk estimation, health-protective approximations of this variable were employed in this HHRA. As a result, risks are likely to be overestimated. The uncertainties in each of the above categories are discussed in greater detail below.

6.1 Environmental Sampling and Analysis

The soil-sampling program focused on characterizing the nature and extent of contamination associated with features of potential concern. Soil sampling was focused in areas that were most likely to be contaminated as a result of historical operations. The sampling program was biased and includes a disproportionate number of samples from contaminated locations. If potential receptors move over an entire property and are equally likely to visit contaminated and uncontaminated areas, biased sampling is likely to result in overestimates of the concentrations of chemicals that workers are likely to contact.

Data quality can be compromised by errors that occur in the field during sampling, errors in laboratory analysis, or errors in data entry and analysis. Data-quality-assurance

reviews lower the frequency of these types of errors. Also, the effects of these sorts of errors on risk estimates are likely to be low. In general, errors that occur during sampling and laboratory analysis are random and unbiased. As a result, these types of errors could lead to either an underestimate or an overestimate of risks.

6.2 Environmental Transport Modeling

Modeling was performed by the DEQ to estimate RBCs for the exposure scenarios involving indirect exposure to volatile chemicals that migrate from soil or groundwater to indoor and outdoor air (DEQ, 2003). The methods that were used to calculate the volatilization factors incorporate several assumptions that, on the whole, probably result in a significant overestimation of the loss of volatile COPCs from soil and groundwater to air. For example, the transport models do not account for biodegradation processes that are likely to reduce the amount of volatile petroleum constituents that migrate from soil to indoor or outdoor air.

The only groundwater COPCs detected above applicable RBCs are volatile petroleum constituents, and the only RBCs that were exceeded were those for excavation workers who may directly contact groundwater in an excavation. It is likely that only concentrations of volatile chemicals are above the excavation-worker RBC because of the unrealistic nature in which groundwater excavation-worker RBCs are calculated for these chemicals. For example, to estimate the concentrations of volatile chemicals that migrate from groundwater to outdoor air in an excavation, the DEQ uses a volatilization factor that represents the average emission of vapors into a home from typical domestic uses of water such as regular showering and dishwashing (DEQ, 2003). For a variety of reasons, the assumption that volatilization from tap water into indoor air of a home is similar to volatilization from groundwater into outdoor air of an excavation likely results in overestimation of inhalation exposures to volatile COPCs by excavation workers.

DEQ (2003) guidance for managing petroleum-contaminated sites outlines a process for developing site-specific RBCs when conditions at a site may differ from the assumed DEQ default conditions. Some soil conditions at the Site differ from DEQ default estimates. For example, the water content of soil at the Site appears to differ from that assumed by the DEQ to calculate generic RBCs (MFA, 2005). The DEQ uses the estimate of water-filled porosity of vadose-zone soil given in ASTM (1995) risk-based corrective-action guidance. The ASTM estimate of water-filled porosity is intended as a conservative value that is appropriate for developing screening values around the nation. Average annual precipitation in Astoria, Oregon, is high relative to most other parts of the country, and based on soil-moisture data, estimates of water-filled porosity of vadose-zone soil appears to be higher than the DEQ default estimate (MFA, 2005). At the request of the DEQ, available site-specific information regarding the water content in soil was not used to evaluate the vapor-intrusion exposure scenarios. It is likely that vapor-intrusion RBCs calculated using site-specific water-filled porosity estimates would be

higher than generic DEQ RBCs, and the use of generic DEQ RBCs results in overestimates of vapor-intrusion risks.

6.3 Exposure Assessment

The exposure assessment is based on a number of assumptions with varying degrees of uncertainty. Uncertainties can arise from the types of exposures examined, intake assumptions, and the concentrations of COPCs at the points of human exposure.

6.3.1 Exposure Scenarios

The process of selecting exposure pathways that attempt to identify the most probable, potentially harmful exposure scenarios is often based on best professional judgment. In a risk assessment, risks sometimes are not calculated for all the exposure pathways that can occur, possibly causing some underestimation of risk. For example, risks are not estimated for occasional site visitors because it is likely that visitors would have lower exposures than on-site workers.

6.3.2 Intake Assumptions

DEQ RBCs were calculated using RME estimates. In general, the RME intake assumptions represent upper-bound exposure probabilities and make it likely that the calculated risks are overestimated.

Some of the exposure assumptions for the construction- and excavation-worker scenarios appear to be particularly conservative and likely result in significant overestimates of risks associated with contacting groundwater. For example, the Occupational Safety and Health Administration rules require that excavations be dewatered before worker entry. However, DEQ RBCs are calculated assuming that workers enter excavations with water and that the head, hands, forearms, and lower legs of a worker are wet for four hours each workday (DEQ, 2003). It is likely that the assumed skin-surface area that is wet, groundwater-exposure frequency, and the groundwater-exposure-event time result in significant overestimates of potential dermal exposures.

A groundwater RBCs was not developed for lead, which could result in underestimates of risks for construction and excavation workers who directly contact groundwater. The only significant pathway by which workers may be exposed to lead is through dermal contact with groundwater in an excavation. As mentioned previously, important information for estimating dermal risks, such as permeability coefficients, is not available for most metals (USEPA, 2004b). However, because there does not appear to be widespread metals contamination at the Site and dermal contact with groundwater in an

excavation is expected to occur infrequently and for short exposure durations, it is unlikely that exposure to groundwater will result in unacceptable risks to workers.

6.4 Toxicity Data and Dose-Response Evaluation

The availability and quality of toxicological data used to calculate RBCs are another source of uncertainty in this HHRA. Uncertainties in animal and human studies are considered in establishing toxicity criteria. Extrapolation of toxicological data from animal studies to humans is one of the largest sources of uncertainty in a risk assessment. There may be important, but unidentified, differences in uptake, metabolism, and distribution of chemicals within the bodies of test species and humans. In establishing noncarcinogenic toxicity criteria, conservative multipliers, known as uncertainty factors, are used to account for these differences. For example, the chronic oral reference dose (RfD) established for ethylbenzene used an uncertainty factor of 1,000 (USEPA, 2006). This means that the lowest dose corresponding to an adverse effect was reduced even further by a factor of 1,000, effectively increasing the assumed toxicity 1,000 times over that which was actually measured.

Chronic RfDs for noncarcinogens are meant to represent a daily exposure level that is likely to be without an appreciable risk of deleterious effects during a lifetime. In the case of construction and excavation workers, chronic RfDs were used to estimate risks associated with subchronic exposures for most COPCs. The use of chronic RfDs to estimate risks for construction and excavation workers who have only acute or subchronic exposures to soil and groundwater results in overestimates of risks.

Uncertainty due to extrapolation of animal tests to humans is often more prominent for potentially carcinogenic chemicals than for noncarcinogenic ones. This is because the USEPA often uses the linearized multistage model (LMS) for evaluating animal test results. The LMS is used to extrapolate data from the high exposure levels typically used in animal studies to the lower levels corresponding to a one-in-one-million chance of developing cancer, and is based on the assumption that there is no threshold for carcinogenic effects. At high levels of exposure there may indeed be a risk of cancer, regardless of whether or not the effect occurs via a threshold mechanism. However, at the low levels of exposure evaluated in this assessment, physiological mechanisms in the human body are often present to reduce the risk of cancer. Therefore, use of the slope factor (SF) derived by the LMS provides a high level of confidence that the potential risk of developing cancer will not be underestimated.

Toxicity data in the Integrated Risk Information System (IRIS) were used by the DEQ to calculate RBCs when available. In several cases, no data from IRIS were available, but toxicity data from other sources such as the National Center for Environmental Assessment were available. It is unlikely that these alternative toxicity data have undergone the rigorous and open scientific review that data in IRIS undergo. Therefore, it

can be reasonably inferred that risk estimates for these chemicals have greater uncertainty than estimates based on IRIS toxicity data.

As discussed in Section 3, no appropriate toxicity data were available to evaluate risks associated with exposures to 4-ispropyltoluene, benzo(g,h,i)perylene, 2-methylnaphthalene, phenanthrene, heavy-oil-range organics, and total chromium. The lack of appropriate toxicity data for these chemicals may lead to an underestimate of total risks.

6.5 Combinations of Sources of Uncertainty

Uncertainties from the sources discussed above are compounded in the derivation of a single value of risk. For example, if a person's daily intake rate for a chemical is compared with an SF to determine potential health risks, the uncertainties (typically all conservative) in the concentration measurements, exposure assumptions, and toxicity criteria are all expressed in the result. By combining conservative values for all of these parameters, the resulting risk estimate is unlikely to underestimate actual risk.

7 CONCLUSIONS

This HHRA evaluated potential risks that chemicals in soil and groundwater at the Site may pose to potential human receptors. Some of the important findings of the HHRA are discussed below.

Contaminants at the Site consist primarily of petroleum-related hydrocarbons. With the exception of a few metals, all of the COPCs in soil and groundwater were petroleum mixtures or petroleum-related constituents. Although some metals were identified as COPCs, there is no evidence of significant metals contamination in soil or groundwater.

Various workers are the human receptors with the greatest potential to contact COPCs in soil or groundwater. These workers include occupational workers, occasional excavation workers, and construction workers. Groundwater at the Site is not used as a source of drinking water and is not likely to be used as a water-supply source in the foreseeable future. The exposure scenarios evaluated include:

- Occupational workers who directly contact surface soil (less than 3 feet bgs).
- Occupational workers who may have indirect exposure to volatile chemicals that migrate from subsurface soil or groundwater to outdoor air.
- Occupational workers who may have indirect exposure to volatile chemicals that migrate from subsurface soil or groundwater to indoor air.
- Construction and excavation workers who directly contact soil or groundwater within 15 feet of the ground surface.
- A four-unit apartment complex was formerly located on West Marine Drive, and it was assumed that hypothetical urban residents may have direct or indirect exposure to COPCs in soil and groundwater within 50 feet of the former apartment complex.

Risk estimates were made by comparing concentrations of COPCs in soil and groundwater with applicable RBCs. In general, generic DEQ RBCs were used for most COPCs and most exposure scenarios. Site-specific groundwater RBCs were developed for volatile chemicals that may migrate from groundwater to indoor or outdoor air. If the concentration of a COPC is below an applicable RBC, it is inferred that exposure to the

chemical will not result in unacceptable human-health risks. Alternatively, if concentrations of a COPC are greater than an applicable RBC, either further evaluation of potential health risks is warranted or it can be concluded that the contamination may pose unacceptable health risks and may require some form of risk management.

The primary findings of the HHRA are as follows:

- Concentrations of COPCs in soil and groundwater within 50 feet of the former four-unit apartment complex on West Marine Drive were below RBCs protective of urban residents. Therefore, no unacceptable risks for potential urban residents at the Site were identified.

- Metal COPCs in soil and groundwater are not expected to pose unacceptable risks to various workers at the Site.

- Petroleum-related chemicals in soil, groundwater, and soil gas in the portion of AOC 4 with LNAPL may pose unacceptable risks to workers. For example, concentrations of benzene in both subsurface soil samples and soil-gas samples collected in this area were above vapor-intrusion RBCs. Risk management actions have been taken at the Port office building to limit worker exposures to vapors that may migrate from the subsurface. Also, a subslab-vapor investigation is being performed on the Port office building to better evaluate potential vapor-intrusion risks. Concentrations of DRO in soil samples collected from the smear zone in the northeast portion of the inferred LNAPL plume were above the construction-worker RBC. Groundwater samples collected from monitoring wells in the general area where LNAPL is present on groundwater also had concentrations of benzene, 1,2,4-trimethylbenzene, naphthalene, or GRO that were above the construction-worker RBC.

- A surface soil sample collected near the Port maintenance building had concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene that were above occupational- and construction-worker RBCs.

- Concentrations of benzene in subsurface soil were above the generic DEQ vapor-intrusion RBC in the north central portion of the Niemi Oil cardlock facility, and near a utility corridor along the boundary between the Niemi Oil cardlock and Qwest properties. No building is currently located in these areas. It is assumed that the benzene-impacted soil in the north central portion of the Niemi Oil cardlock facility has the potential to pose unacceptable risks to workers of a hypothetical future building; however, it is not likely that a building would be developed over the utility corridor.

- Shallow groundwater beneath some portions of the Niemi Oil cardlock facility had concentrations of 1,2,4-trimethylbenzene, naphthalene, or GRO above construction-worker RBCs. Also, groundwater samples from monitoring well MW-30, located on Port property north of the Burlington Northern railroad tracks, had concentrations of naphthalene and GRO above construction-worker RBCs.

- One soil sample collected at the Delphia Oil facility had a concentration of benzene above the generic vapor-intrusion RBC. However, it appears that the areal extent of benzene-impacted soil is small relative to the footprint of most commercial or industrial buildings, and only a portion of any future building would overlie soil with benzene concentrations above the generic DEQ vapor-intrusion RBC.

- No highly-concentrated hot spots were identified for soil.

- Two zones of LNAPL (one in AOC 4 and the other on the Delphia Oil site) may be considered highly mobile hot.

- Groundwater samples collected from four monitoring wells (MW-26, MW-28, MW-29, and MW-30) in AOC 1, and from three monitoring wells (MW-40, MW-42, and MW-44) in AOC 4, had concentrations of at least one COPC that were above an applicable construction-worker RBC. These two zones of groundwater contamination are considered preliminary hot spots, and final hot spot determinations will be made in the FS.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

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TABLES

Table Notes
Astoria Area-Wide Petroleum Site
Astoria, Oregon

bgs = below ground surface.
BSL = below baseline.
COPC = chemical of potential concern.
COPC(MC) = chemical of potential concern because of additive effect of multiple chemicals.
COPC(NTD) = chemical of potential concern because of no toxicity data.
DEQ = Oregon Department of Environmental Quality.
ID = identification.
IFD = infrequently detected.
LOF = locality of the facility.
mg/kg = milligrams per kilogram.
mg/L = milligrams per liter.
MSL = mean sea level.
µg/L = micrograms per liter.
µg/m^3 = micrograms per cubic meter.
NA = not applicable.
NC = Not calculated because COPC concentrations were not detected.
np = no product.
NV = no value.
% = percent.
PAH = polycyclic aromatic hydrocarbon.
ppmv = parts per million by volume.
Pt = point.
RBC = risk-based concentration.
U = not detected at the reporting limit.
**Chemical risk score > 1/Total Number of Chemicals.

[a]Background concentration is 90th percentile values from Clark County (Ecology, 1994).

[b]Industrial Soil Preliminary Remediation Goal (USEPA, 2004a) with the exception of hydrocarbons. GRO and DRO screening values are RBCs for soil ingestion, dermal contact, and inhalation for occupational workers (DEQ, 2003) and the lube oil screening value is the level 2 DEQ soil matrix value (DEQ, 2000).

[c]Chemical Risk Score = maximum detected concentration/screening level.

[d]Tap Water Preliminary Remediation Goal (USEPA, 2004) with the exception of hydrocarbons and lead. Hydrocarbon and lead screening values are RBCs for ingestion and inhalation from tap water (DEQ, 2003).

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-1(F)	10/13/2003	1142	1.5	31.71	np	23.44	0	8.27	
	10/22/2003	820	0.62	31.71	np	23.87	0	7.84	
	11/12/2003	1130	0.56	31.71	np	23.03	0	8.68	
	12/16/2003	1358	0.34	31.71	np	17.25	0	14.46	
	1/11/2004	1628	4.26	31.71	np	16.33	0	15.38	
	1/15/2004	800	3.86	31.71	np	16.21	0	15.50	
	2/12/2004	945	-2.53	31.71	np	15.61	0	16.10	
	3/18/2004	1355	1.23	31.71	np	17.82	0	13.89	
	4/12/2004	1105	-2.84	31.71	np	18.2	0	13.51	
	4/15/2004	730	1.78	31.71	np	18.36	0	13.35	
	5/19/2004	1307	1.86	31.71	np	19.98	0	11.73	
	6/16/2004	1246	1.78	31.71	np	20.76	0	10.95	
	7/19/2004	1042	-2.94	31.71	np	21.82	0	9.89	
	7/20/2004	1838	-0.48	31.71	np	21.9	0	9.81	
	8/17/2004	1330	2.69	31.71	np	22.92	0	8.79	
	9/16/2004	1320	3.67	31.71	np	23.18	0	8.53	
MW-1(M)	8/28/2002	1151	-1.99	14.53	9.61	10.08	0.47	4.86	18.27
	9/12/2002	1029	-2.84	14.53	9.34	9.88	0.54	5.12	
	9/13/2002	1536	1.12	14.53	9.13	9.34	0.21	5.37	
	10/11/2002	1141	-1.52	14.53	9.49	9.92	0.43	4.98	19.41
	11/15/2002	1118	3.51	14.53	7.11	7.19	0.08	7.41	
	12/13/2002	841	4.39	14.53	6.54	6.57	0.03	7.99	
	1/14/2003	1117	3.45	14.53	6.79	6.81	0.02	7.74	
	2/12/2003	1126	2.12	14.53	7.55	7.56	0.01	6.98	
	3/13/2003	1018	3.86	14.53	6.37	6.45	0.08	8.15	
	4/14/2003	1147	4.17	14.53	np	6.57	0	7.96	
	5/14/2003	1054	2.59	14.53	8.67	8.7	0.03	5.86	
	6/17/2003	1431	2.05	14.53	9.19	9.25	0.06	5.33	
	7/14/2003	1215	0.11	14.53	9.56	9.71	0.15	4.95	
	8/13/2003	1350	3	14.53	9.31	9.32	0.01	5.22	
	9/12/2003	1432	3.21	14.53	np	8.10	0	6.43	
	10/13/2003	846	-2.52	14.53	9.31	9.33	0.02	5.22	

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MW-1(M)	11/12/2003	1445	3.39	14.53	np	6.96	0	7.57	
cont.	12/16/2003	943	1.46	14.53	7.58	7.59	0.01	6.95	
	1/11/2004	1350	4.01	14.53	np	6.58	0	7.95	oduct globules in bail
	2/12/2004	1423	-2.19	14.53	8.64	8.65	0.01		
	3/18/2004	930	3.9	14.53	np	7.60	0	6.93	Strong odor
	4/12/2004	902	0.43	14.53	7.56	7.57	0.01	6.97	
	6/16/2004	1030	-0.35	14.53	9.39	9.41	0.01	5.13	
	7/19/2004	858	-5.63	14.53	9	9.03	0.01	5.51	
	8/17/2004	1020	-3.83	14.53	9.55	9.58	0.01	4.96	
	9/16/2004	932	-2.05	14.53	8.46	8.47	0.01	6.07	
MW-2(M)	8/28/2002	1122	-3.21	15.00	np	8.65	0	6.35	17.9
	9/12/2002	1015	-2.84	15.00	np	8.69	0	6.31	
	9/13/2002	1520	1.12	15.00	np	9.7	0	5.30	
	10/11/2002	1036	-2.45	15.00	np	8.95	0	6.05	19.03
	11/15/2002	930	2.73	15.00	np	8.55	0	6.45	
	12/13/2002	814	4.26	15.00	np	8.08	0	6.92	
	1/14/2003	1039	3.45	15.00	np	6.58	0	8.42	
	2/12/2003	1042	2.12	15.00	np	6.47	0	8.53	
	3/13/2003	940	3.86	15.00	np	5.91	0	9.09	
	4/14/2003	1103	4.35	15.00	np	6.02	0	8.98	
	5/14/2003	1008	1.15	15.00	np	6.91	0	8.09	
	6/17/2003	1354	0.45	15.00	np	7.51	0	7.49	
	7/14/2003	1132	0.11	15.00	np	8.02	0	6.98	
	8/13/2003	1324	1.76	15.00	np	8.34	0	6.66	
	9/12/2003	1318	2.26	15.00	np	8.58	0	6.42	
	10/13/2003	852	-2.52	15.00	np	8.62	0	6.38	
	10/15/2003	1300	2.26	15.00	np	8.62	0	6.38	
	11/12/2003	1432	3.39	15.00	np	8.29	0	6.71	
	12/16/2003	910	2.67	15.00	np	6.86	0	8.14	
	1/11/2004	1348	4.01	15.00	np	6.27	0	8.73	
	1/12/2004	1200	-0.09	15.00	np	6.39	0	8.61	
	2/12/2004	1418	-2.19	15.00	np	6.14	0	8.86	

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MW-2(M) cont.	3/18/2004	1023	3.9	15.00	np	6.66	0	8.34	
	4/12/2004	944	-1.26	15.00	np	6.98	0	8.02	
	4/14/2004	1730	-2.47	15.00	np	7.07	0	7.93	
	6/16/2004	1023	-1.94	15.00	np	7.77	0	7.23	
	7/19/2004	834	-5.63	15.00	np	8.12	0	6.88	
	7/22/2004	1757	2.45	15.00	np	8.18	0	6.82	
	8/17/2004	1015	-3.83	15.00	np	8.52	0	6.48	
	9/16/2004	928	-3.7	15.00	np	8.27	0	6.73	
MW-3(M)	8/28/2002	1345	1.05	15.42	9.45	10.17	0.72	5.87	17.51
	9/12/2002	1025	-2.84	15.42	9.42	10.12	0.7	5.90	
	9/13/2002	1547	2.52	15.42	9.51	9.88	0.37	5.86	
	10/11/2002	1155	-1.52	15.42	9.61	10.67	1.06	5.66	18.44
	11/15/2002	1134	3.51	15.42	9.07	9.7	0.63	6.26	
	12/13/2002	906	4.39	15.42	8.68	9.02	0.34	6.69	
	1/14/2003	1130	2.16	15.42	7.54	8.15	0.61	7.80	
	2/12/2003	1142	0.66	15.42	7.61	8.18	0.57	7.73	
	3/13/2003	1037	2.91	15.42	7.01	7.91	0.9	8.29	
	4/14/2003	1207	4.17	15.42	7.06	8.29	1.23	8.19	
	5/14/2003	1101	2.59	15.42	7.78	8.94	1.16	7.48	
	6/17/2003	1500	2.05	15.42	8.42	9.15	0.73	6.90	
	7/14/2003	1226	0.11	15.42	8.86	9.57	0.71	6.46	
	8/13/2003	1403	3	15.42	9.06	9.64	0.58	6.28	
	9/12/2003	1449	3.21	15.42	9.26	9.59	0.33	6.11	
	10/13/2003	921	-2.52	15.42	9.35	9.79	0.44	6.01	
	10/23/2003	939	2.62	15.42	9.15	9.6	0.45	6.21	
	11/12/2003	1438	3.39	15.42	8.99	9.16	0.17	6.41	
	12/16/2003	1003	1.46	15.42	7.76	8.21	0.45	7.60	
	1/11/2004	1359	4.01	15.42	7.19	8.09	0.9	8.11	
	2/12/2004	1437	-0.76	15.42	7.32	8.79	1.47	7.90	
	3/18/2004	925	2.49	15.42	7.77	8.51	0.74	7.55	
	4/12/2004	915	0.43	15.42	7.95	8.58	0.63	7.38	
	5/19/2004	1054	-1.19	15.42	8.55	9.35	0.8	6.76	

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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-3(M) cont.	6/16/2004	1045	-0.35	15.42	8.7	9.52	0.82	6.61	
	7/19/2004	855	-5.63	15.42	8.94	9.53	0.59	6.40	
	8/17/2004	1033	-1.98	15.42	9.3	9.83	0.53	6.05	
	9/16/2004	944	-2.05	15.42	9.1	9.35	0.25	6.29	
MW-4(M)	8/28/2002	1302	-0.5	15.5	9.16	9.45	0.29	6.30	20.59
	9/12/2002	1042	-3.1	15.5	9.21	9.58	0.37	6.24	
	9/13/2002	1544	1.12	15.5	9.26	9.39	0.13	6.22	
	10/11/2002	1122	-2.45	15.5	9.46	9.77	0.31	6.00	21.11
	11/15/2002	1108	3.51	15.5	9.08	9.12	0.04	6.41	
	12/13/2002	850	4.39	15.5	np	8.66	0	6.84	
	1/14/2003	1106	3.45	15.5	np	7.18	0	8.32	
	2/12/2003	1112	2.12	15.5	6.95	7.92	0.97	8.42	
	3/13/2003	1007	3.86	15.5	6.46	7.49	1.03	8.91	
	4/14/2003	1137	4.17	15.5	6.28	8.89	2.61	8.88	
	5/14/2003	1126	2.59	15.5	7.18	9.48	2.3	8.02	
	6/17/2003	1452	2.05	15.5	7.98	8.78	0.8	7.42	
	7/14/2003	1232	1.8	15.5	8.53	8.79	0.26	6.94	
	8/13/2003	1303	1.76	15.5	8.87	9.14	0.27	6.59	
	9/12/2003	1445	3.21	15.5	9.07	9.28	0.21	6.40	
	10/13/2003	914	-2.52	15.5	9.17	9.32	0.15	6.31	
	10/23/2003	918	1.04	15.5	8.95	9.05	0.1	6.54	
	11/12/2003	1501	3.39	15.5	np	8.85	0	6.65	
	12/16/2003	918	2.67	15.5	np	7.45	0	8.05	
	1/11/2004	1344	4.01	15.5	np	6.86	0	8.64	
	2/12/2004	1408	-2.19	15.5	6.45	8.69	2.24	8.76	
	3/18/2004	1010	3.9	15.5	6.97	9.16	2.19	8.25	
	4/12/2004	919	0.43	15.5	7.34	8.81	1.47	7.97	
	5/19/2004	1055	-1.19	15.5	8.06	8.77	0.71	7.35	
	6/16/2004	1013	-1.94	15.5	8.27	8.9	0.63	7.15	
	7/19/2004	839	-5.63	15.5	8.66	8.78	0.12	6.82	
	8/17/2004	1008	-3.83	15.5	9.04	9.27	0.23	6.43	
	9/16/2004	922	-3.7	15.5	8.87	8.93	0.06	6.62	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-5(M)	8/28/2002						0		
MW-6(M)	8/28/2002	1140	-1.99	13.78	np	7.71	0	6.07	18.47
	9/12/2002	926	-1.83	13.78	np	8.25	0	5.53	
	9/13/2002	1515	1.12	13.78	np	7.71	0	6.07	
	10/11/2002	1012	-2.51	13.78	np	7.92	0	5.86	19.06
	11/15/2002	921	2.73	13.78	np	7.41	0	6.37	
	12/13/2002	802	4.26	13.78	np	8.85	0	4.93	
	1/14/2003	1028	3.99	13.78	np	7.01	0	6.77	
	2/12/2003	1031	2.12	13.78	np	6.61	0	7.17	
	3/13/2003	930	4.37	13.78	np	6.93	0	6.85	
	4/14/2003	1053	4.35	13.78	np	6.95	0	6.83	
	5/14/2003	956	1.15	13.78	np	7.14	0	6.64	
	6/17/2003	1402	0.45	13.78	np	7.12	0	6.66	
	7/14/2003	1050	-1.9	13.78	np	7.47	0	6.31	
	8/13/2003	1316	1.76	13.78	np	7.48	0	6.30	
	9/12/2003	1312	2.26	13.78	np	7.56	0	6.22	
	10/22/2003	1530	-2.21	13.78	np	7.00	0	6.78	
	11/12/2003	1348	3.65	13.78	np	8.27	0	5.51	
	12/16/2003	857	2.67	13.78	np	5.86	0	7.92	
	1/11/2004	1332	4.01	13.78	np	5.41	0	8.37	
	1/12/2004	814	0.52	13.78	np	5.58	0	8.20	
	2/12/2004	1328	-3.4	13.78	np	5.69	0	8.09	
	3/18/2004	941	3.9	13.78	np	6.41	0	7.37	
	4/12/2004	905	0.43	13.78	np	6.49	0	7.29	
	4/13/2004	1045	-0.52	13.78	np	6.45	0	7.33	
	5/19/2004	1135	0.49	13.78	np	6.95	0	6.83	
	6/16/2004	948	-1.94	13.78	np	7.69	0	6.09	
	7/19/2004	827	-5.2	13.78	np	7.45	0	6.33	
	7/19/2004	1505	2.72	13.78	np	7.29	0	6.49	
	8/17/2004	947	-3.83	13.78	np	7.82	0	5.96	
	9/16/2004	857	-3.7	13.78	np	7.56	0	6.22	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-7(M)	8/28/2002	1102	-3.21	14.86	np	8.31	0	6.55	18.64
	9/12/2002	900	-1.83	14.86	np	8.36	0	6.50	
	9/13/2002	1455	1.12	14.86	np	8.43	0	6.43	
	10/11/2002	957	-2.51	14.86	np	8.58	0	6.28	18.93
	11/15/2002	914	2.73	14.86	np	8.57	0	6.29	
	12/13/2002	754	4.26	14.86	np	7.7	0	7.16	
	1/14/2003	1017	3.99	14.86	np	6.01	0	8.85	
	2/12/2003	1021	3.06	14.86	np	5.96	0	8.90	
	3/13/2003	920	4.37	14.86	np	5.3	0	9.56	
	4/14/2003	1044	4.35	14.86	np	5.5	0	9.36	
	5/14/2003	947	1.15	14.86	np	6.42	0	8.44	
	6/17/2003	1347	0.45	14.86	np	7.13	0	7.73	
	7/14/2003	1124	-1.9	14.86	np	7.66	0	7.20	
	8/13/2003	1311	1.76	14.86	np	8.03	0	6.83	
	9/12/2003	1307	2.26	14.86	np	8.27	0	6.59	
	10/13/2003	852	-2.52	14.86	np	8.30	0	6.56	
	10/13/2003	1547	2.54	14.86	np	8.27	0	6.59	
	11/12/2003	1356	3.65	14.86	np	7.96	0	6.90	
	12/16/2003	903	2.67	14.86	np	6.41	0	8.45	
	1/11/2004	1335	4.01	14.86	np	5.77	0	9.09	
	1/12/2004	940	-1.27	14.86	np	5.81	0	9.05	
	2/12/2004	1333	-3.4	14.86	np	5.53	0	9.33	
	3/18/2004	946	3.9	14.86	np	6.23	0	8.63	
	4/12/2004	931	-1.26	14.86	np	6.51	0	8.35	
	4/12/2004	1725	-1.44	14.86	np	6.63	0	8.23	
	5/19/2004	1139	0.49	14.86	np	7.20	0	7.66	
	6/16/2004	957	-1.94	14.86	np	7.42	0	7.44	
	7/19/2004	829	-5.2	14.86	np	7.80	0	7.06	
	7/19/2004	1550	2.5	14.86	np	7.81	0	7.05	
	9/16/2004	903	-3.7	14.86	np	7.91	0	6.95	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-8(M)	8/28/2002	1326	-0.5	15.23	9.69	11.08	1.39	5.37	18.89
	9/12/2002	1036	-3.1	15.23	9.6	10.85	1.25	5.48	
	9/13/2002	1540	1.12	15.23	9.7	10.41	0.71	5.44	
	10/11/2002	1211	-1.52	15.23	9.89	10.91	1.02	5.22	18.74
	11/15/2002	1126	3.51	15.23	8.57	9.26	0.69	6.58	
	12/13/2002	859	4.39	15.23	8.04	8.81	0.77	7.10	
	1/14/2003	1123	3.45	15.23	8.2	8.53	0.33	6.99	
	2/12/2003	1133	0.66	15.23	8.27	8.75	0.48	6.90	
	3/13/2003	1029	3.86	15.23	np	8.22	0	7.01	
	4/14/2003	1158	4.17	15.23	np	7.72	0	7.51	
	5/14/2003	1042	2.59	15.23	8.71	9.45	0.74	6.43	
	6/17/2003	1440	2.05	15.23	8.91	9.77	0.86	6.22	
	7/14/2003	1221	0.11	15.23	9.32	9.79	0.47	5.85	
	8/13/2003	1357	3	15.23	9.36	9.63	0.27	5.84	
	9/12/2003	1437	3.21	15.23	9.19	9.41	0.22	6.01	
	10/13/2003	932	-1.55	15.23	9.57	9.92	0.35	5.62	
	10/23/2003	836	1.04	15.23	9.43	9.86	0.43	5.75	
	11/12/2003	1442	3.39	15.23	8.81	8.86	0.05	6.41	
	12/16/2003	954	1.46	15.23	np	8.71	0	6.52	
	1/11/2004	1355	4.01	15.23	np	7.55	0	7.68	
	2/12/2004	1430	-2.19	15.23	8.37	8.48	0.11	6.85	
	3/18/2004	913	2.49	15.23	8.44	8.53	0.09	6.78	
	4/12/2004	907	0.43	15.23	8.43	8.46	0.03	6.80	
	5/19/2004	1112	-1.19	15.23	9.04	9.2	0.16	6.17	
	6/16/2004	1037	-0.35	15.23	9.2	9.3	0.1	6.02	
	7/19/2004	859	-5.63	15.23	9.34	9.4	0.06	5.88	
	8/17/2004	1024	-3.83	15.23	9.64	9.9	0.26	5.56	
	9/16/2004	938	-2.05	15.23	9.41	9.43	0.02	5.82	

Table 2-1
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Astoria Area-Wide Petroleum Site
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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-9(M)	8/28/2002	1357	1.05	15.42	9.35	13.21	3.86	5.58	19.12
	9/12/2002	1049	-3.1	15.42	9.3	12.08	2.78	5.77	
	9/13/2002	1552	1.12	15.42	9.61	10.21	0.6	5.73	
	10/11/2002	1226	-1.52	15.42	9.75	10.92	1.17	5.52	19.47
	11/15/2002	1141	2.61	15.42	9.16	10.28	1.12	6.12	
	12/13/2002	915	4.39	15.42	8.78	9.79	1.01	6.51	
	1/14/2003	1137	2.16	15.42	7.76	8.55	0.79	7.56	
	2/12/2003	1150	0.66	15.42	7.85	8.85	1	7.44	
	3/13/2003	1045	2.91	15.42	7.35	8.21	0.86	7.96	
	4/14/2003	1217	4.17	15.42	7.33	8.9	1.57	7.89	
	5/15/2003	1116	2.59	15.42	8.11	10.3	2.19	7.03	
	6/17/2003	1508	2.05	15.42	8.44	10.65	2.21	6.70	
	7/14/2003	1241	1.8	15.42	9.00	9.94	0.94	6.30	
	8/13/2003	1409	3	15.42	9.20	9.8	0.6	6.14	
	9/12/2003	1456	3.21	15.42	9.38	9.9	0.52	5.97	
	10/13/2003	939	-1.55	15.42	9.46	10.18	0.72	5.87	
	10/23/2003	956	2.62	15.42	9.24	9.92	0.68	6.09	
	11/12/2003	1456	3.39	15.42	9.15	9.49	0.34	6.23	
	12/16/2003	1009	1.46	15.42	8.02	8.19	0.17	7.38	
	1/11/2004	1407	4.01	15.42	7.52	7.66	0.14	7.88	
	2/12/2004	1444	-0.76	15.42	7.76	8.69	0.93	7.54	
	3/18/2004	919	2.49	15.42	8.07	8.93	0.86	7.24	
	4/12/2004	912	0.43	15.42	8.21	8.83	0.62	7.13	
	5/19/2004	1108	-1.19	15.42	8.73	9.83	1.1	6.55	
	7/19/2004	905	-5.63	15.42	9.05	10.15	1.1	6.23	
	8/17/2004	1029	-3.83	15.42	9.41	10.44	1.03	5.88	
	9/16/2004	950	-2.05	15.42	9.22	9.88	0.66	6.12	
MW-10(M)	8/28/2002	1430	1.05	16.32	np	11.23	0	5.09	19.43
	9/12/2002	1005	-2.84	16.32	np	11.1	0	5.22	
	9/13/2002	1526	1.12	16.32	np	11.13	0	5.19	
	10/11/2002	1055	-2.45	16.32	np	11.22	0	5.10	19.83
	11/15/2002	942	3.5	16.32	np	10.63	0	5.69	

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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-10(M) cont.	12/13/2002	821	4.26	16.32	np	10.21	0	6.11	
	1/14/2003	1048	3.45	16.32	np	9.62	0	6.70	
	2/12/2003	1051	2.12	16.32	np	9.91	0	6.41	
	3/13/2003	948	3.86	16.32	np	9.4	0	6.92	
	4/14/2003	1118	4.35	16.32	np	9.1	0	7.22	
	5/15/2003	1019	1.15	16.32	np	10.38	0	5.94	
	6/17/2003	1413	0.45	16.32	np	10.41	0	5.91	
	7/14/2003	1141	0.11	16.32	np	10.75	0	5.57	
	8/13/2003	1333	3	16.32	np	10.77	0	5.55	
	9/12/2003	1348	3.2	16.32	np	10.95	0	5.37	
	10/13/2003	950	-1.55	16.32	np	10.88	0	5.44	
	10/15/2003	1500	3.78	16.32	np	10.85	0	5.47	
	11/12/2003	1334	3.65	16.32	np	10.67	0	5.65	
	12/16/2003	1027	1.46	16.32	np	9.68	0	6.64	
	1/11/2004	1410	4.01	16.32	np	9.32	0	7.00	
	1/13/2004	1050	-1.76	16.32	np	9.55	0	6.77	
	2/12/2004	1305	-3.4	16.32	np	9.95	0	6.37	
	3/18/2004	856	2.49	16.32	np	10.17	0	6.15	
	4/12/2004	910	0.43	16.32	np	10.12	0	6.20	
	4/13/2004	820	2.99	16.32	np	10.19	0	6.13	
	5/19/2004	1124	-1.19	16.32	np	10.56	0	5.76	
	6/16/2004	1110	-0.35	16.32	np	10.69	0	5.63	
	7/19/2004	909	-5.63	16.32	np	10.68	0	5.64	
	7/19/2004	1715	1.56	16.32	np	10.65	0	5.67	
	8/17/2004	1048	-1.98	16.32	np	11.01	0	5.31	
	9/16/2004	1007	-2.05	16.32	np	10.72	0	5.60	
MW-11(M)	8/28/2002	1420	1.05	16.34	np	10.87	0	5.47	19.81
	9/12/2002	1000	-2.84	16.34	np	10.8	0	5.54	
	9/13/2002	1531	1.12	16.34	np	10.83	0	5.51	
	10/11/2002	1108	-2.45	16.34	np	11.01	0	5.33	19.83
	11/15/2002	949	3.5	16.34	np	10.37	0	5.97	
	12/13/2002	829	4.26	16.34	np	9.94	0	6.40	

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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-11(M) cont.	1/14/2003	1057	3.45	16.34	np	9.08	0	7.26	
	2/12/2003	1058	2.12	16.34	np	9.25	0	7.09	
	3/13/2003	958	3.86	16.34	np	8.71	0	7.63	
	4/14/2003	1127	4.35	16.34	np	8.86	0	7.48	
	5/15/2003	1028	1.15	16.34	np	9.79	0	6.55	
	6/17/2003	1422	0.45	16.34	np	10.02	0	6.32	
	7/14/2003	1149	0.11	16.34	np	10.39	0	5.95	
	8/13/2003	1340	3	16.34	np	10.41	0	5.93	
	9/12/2003	1353	3.2	16.34	np	10.6	0	5.74	
	10/13/2003	956	-1.55	16.34	np	10.72	0	5.62	
	10/15/2003	1720	2.7	16.34	np	10.41	0	5.93	
	11/12/2003	1341	3.65	16.34	np	10.29	0	6.05	
	12/16/2003	1019	1.46	16.34	np	9.27	0	7.07	
	1/11/2004	1414	4.01	16.34	np	8.73	0	7.61	
	1/13/2004	1235	-0.61	16.34	np	9.21	0	7.13	
	2/12/2004	1311	-3.4	16.34	np	9.43	0	6.91	
	3/18/2004	903	2.49	16.34	np	9.48	0	6.86	
	4/12/2004	948	-1.26	16.34	np	9.6	0	6.74	
	4/13/2004	945	1.05	16.34	np	9.53	0	6.81	
	5/19/2004	1120	-1.19	16.34	np	10.2	0	6.14	
	6/16/2004	1124	-0.35	16.34	np	10.31	0	6.03	
	7/19/2004	907	-5.63	16.34	np	10.49	0	5.85	
	7/21/2004	1646	2.52	16.34	np	10.37	0	5.97	
	8/17/2004	1059	-1.98	16.34	np	10.77	0	5.57	
	9/16/2004	1000	-2.05	16.34	np	10.52	0	5.82	
MW-12(A)	10/13/2003	1152	1.5	30.58	np	20.00	0	10.58	25.38
	10/22/2003	955	3.54	30.58	np	19.61	0	10.97	
	11/12/2003	1116	0.56	30.58	np	18.87	0	11.71	
	12/16/2003	1345	0.34	30.58	np	15.44	0	15.14	
	1/11/2004	1616	4.26	30.58	np	14.76	0	15.82	
	1/15/2004	940	0.81	30.58	np	14.70	0	15.88	
	2/12/2004	932	-2.53	30.58	np	14.26	0	16.32	

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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-12(A) cont.	3/18/2004	1340	1.23	30.58	np	15.27	0	15.31	
	4/12/2004	1208	-4.16	30.58	np	15.85	0	14.73	
	4/16/2004	725	-1.63	30.58	np	16.00	0	14.58	
	5/19/2004	1253	1.86	30.58	np	17.04	0	13.54	
	6/16/2004	1233	1.78	30.58	np	17.61	0	12.97	
	7/19/2004	1122	-2.94	30.58	np	18.15	0	12.43	
	7/22/2004	655	-1.14	30.58	np	18.19	0	12.39	
	8/17/2004	1320	1.62	30.58	np	18.64	0	11.94	
	9/16/2004	1310	3.67	30.58	np	18.74	0	11.84	
MW-13(A)	10/13/2003	1157	1.5	31.36	np	22.68	0	8.68	26.42
	10/22/2003	1130	3.62	31.36	np	22.34	0	9.02	
	11/12/2003	1122	0.56	31.36	np	22.14	0	9.22	
	12/16/2003	1352	0.34	31.36	np	18.41	0	12.95	
	1/11/2004	1620	4.26	31.36	np	17.39	0	13.97	
	1/15/2004	1130	-1.98	31.36	np	17.28	0	14.08	
	2/12/2004	937	-2.53	31.86	np	16.71	0	15.15	
	3/18/2004	1345	1.23	31.86	np	17.83	0	14.03	
	4/12/2004	1210	-4.16	31.86	np	18.45	0	13.41	
	4/16/2004	927	1.51	31.86	np	18.82	0	13.04	
	5/19/2004	1255	1.86	31.86	np	19.85	0	12.01	
	6/16/2004	1238	1.78	31.86	np	20.53	0	11.33	
	7/19/2004	1124	-2.94	31.86	np	21.33	0	10.53	
	7/22/2004	818	-2.86	31.86	np	21.4	0	10.46	
	8/17/2004	1324	1.62	31.86	np	21.96	0	9.90	
	9/16/2004	1314	3.67	31.86	np	21.92	0	9.94	
MW-14(A)	10/13/2003	1203	1.5	23.39	np	15.06	0	8.33	18.81
	10/21/2003	1645	-1.5	23.39	np	14.7	0	8.69	
	11/12/2003	1056	0.56	23.39	np	14.55	0	8.84	
	12/16/2003	1336	0.34	23.39	np	12.01	0	11.38	
	1/11/2004	1624	4.26	23.39	np	11.47	0	11.92	
	1/15/2004	1250	-2.74	23.39	np	11.41	0	11.98	
	2/12/2004	1106	-3.59	23.39	np	11.07	0	12.32	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-14(A) cont.	3/18/2004	1226	4.37	23.39	np	11.57	0	11.82	
	4/12/2004	1205	-4.16	23.39	np	11.88	0	11.51	
	4/16/2004	815	-0.11	23.39	np	11.97	0	11.42	
	5/19/2004	1250	1.86	23.39	np	12.5	0	10.89	
	6/16/2004	1226	1.01	22.39	np	12.73	0	9.66	
	7/19/2004	1122	-2.94	22.39	np	13.28	0	9.11	
	7/23/2004	757	-1.63	22.39	np	13.34	0	9.05	
	8/17/2004	1317	1.62	22.39	np	14.21	0	8.18	
	9/16/2004	1304	3.67	22.39	np	13.83	0	8.56	
MW-15(A)	10/13/2003	1116	-0.1	16.95	np	9.08	0	7.87	14.81
	10/20/2003	1340	0.06	16.95	np	8.87	0	8.08	
	11/12/2003	1026	-0.65	16.95	np	8.58	0	8.37	
	12/16/2003	1239	-0.3	16.95	np	6.35	0	10.60	
	1/11/2004	1529	4.58	16.95	5.77	5.8	0.03	11.18	
	2/12/2004	1058	-3.59	16.95	5.41	5.9	0.49	11.47	
	3/18/2004	1230	4.37	16.95	6.1	8.04	1.94	10.56	
	4/12/2004	1153	-4.16	16.95	6.5	7.26	0.76	10.34	
	5/19/2004	1403	2.56	16.95	7.25	7.95	0.7	9.60	
	6/16/2004	1351	1.8	16.95	7.51	8.28	0.77	9.32	
	7/19/2004	1131	-1.08	16.95	8.04	8.84	0.8	8.79	
	8/17/2004	1305	1.62	16.95	8.46	9.27	0.81	8.37	
	9/16/2004	1255	3.67	16.95	8.4	8.89	0.49	8.48	
MW-16(A)	10/13/2003	1111	-0.1	16.48	np	8.59	0	7.89	15.21
	10/20/2003	1510	-0.31	16.48	np	8.39	0	8.09	
	11/12/2003	1035	0.56	16.48	np	8.18	0	8.30	
	12/16/2003	1224	-0.19	16.48	np	6.51	0	9.97	
	1/11/2004	1523	4.58	16.48	np	6.05	0	10.43	
	1/19/2004	930	5.44	16.48	np	6.04	0	10.44	
	2/12/2004	1110	-3.59	16.48	np	5.81	0	10.67	
	3/18/2004	1221	4.37	16.48	np	6.33	0	10.15	
	4/12/2004	1158	-4.16	16.48	np	6.63	0	9.85	
	4/15/2004	850	2.95	16.48	np	6.68	0	9.80	

Table 2-1
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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-16(A) cont.	5/19/2004	1357	2.56	16.48	np	7.2	0	9.28	
	6/16/2004	1400	1.8	16.48	np	7.37	0	9.11	
	7/19/2004	1021	-4.71	16.48	np	7.78	0	8.70	
	7/22/2004	1515	1.37	16.48	np	7.81	0	8.67	
	8/17/2004	1312	1.62	16.48	np	8.13	0	8.35	
	9/16/2004	1300	3.67	16.48	np	8.04	0	8.44	
MW-17(A)	10/13/2003	1125	-0.1	15.69	np	8.37	0	7.32	15.35
	10/17/2003	1240	1.23	15.69	np	8.31	0	7.38	
	11/12/2003	1020	-0.65	15.69	np	7.88	0	7.81	
	12/16/2003	1245	-0.3	15.69	np	5.7	0	9.99	
	1/11/2004	1540	4.26	15.69	np	5	0	10.69	
	1/19/2004	1130	4.2	15.69	np	5	0	10.69	
	2/12/2004	1047	-3.59	15.69	np	4.66	0	11.03	
	3/18/2004	1245	3.1	15.69	np	5.43	0	10.26	
	4/12/2004	1145	-4.16	15.69	np	5.88	0	9.81	
	4/15/2004	1055	3.34	15.69	np	6	0	9.69	
	5/19/2004	1351	2.56	15.69	np	6.66	0	9.03	
	6/16/2004	1338	1.8	15.69	np	6.95	0	8.74	
	7/19/2004	1026	-4.71	15.69	np	7.45	0	8.24	
	7/22/2004	1636	2.92	15.69	np	7.5	0	8.19	
	8/17/2004	1254	1.62	15.69	np	7.86	0	7.83	
	9/16/2004	1245	3.67	15.69	np	7.79	0	7.90	
MW-18(A)	10/13/2003	1117	-0.1	16.23	np	8.85	0	7.38	15.36
	10/21/2003	1300	0.89	16.23	np	8.58	0	7.65	
	11/12/2003	1042	0.56	16.23	np	8.39	0	7.84	
	12/16/2003	1234	-0.3	16.23	np	6.38	0	9.85	
	1/19/2004	1040	5.35	16.23	np	5.74	0	10.49	
	2/12/2004	1052	-3.59	16.23	np	5.42	0	10.81	
	3/18/2004	1240	3.1	16.23	np	6.1	0	10.13	
	4/12/2004	1148	-4.16	16.23	np	6.55	0	9.68	
	4/15/2004	1000	3.54	16.23	np	6.62	0	9.61	
	5/19/2004	1355	2.56	16.23	np	7.27	0	8.96	

Table 2-1
Groundwater Measurements
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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-18(A) cont.	6/16/2004	1346	1.8	16.23	np	7.5	0	8.73	
	7/19/2004	1025	-4.71	16.23	np	7.98	0	8.25	
	7/21/2004	1535	2.65	16.23	np	8	0	8.23	
	8/17/2004	1258	1.62	16.23	np	8.36	0	7.87	
	9/16/2004	1251	3.67	16.23	np	8.29	0	7.94	
MW-19(A)	10/13/2003	1049	-0.1	17.98	np	10.59	0	7.39	15.3
	10/20/2003	1050	2.89	17.98	np	10.43	0	7.55	
	11/12/2003	1145	1.93	17.98	np	10.18	0	7.80	
	1/13/2004	1515	1.91	17.98	np	7.99	0	9.99	
	2/12/2004	1122	-3.59	17.9	np	7.66	0	10.24	
	3/18/2004	1210	4.37	17.9	np	8.26	0	9.64	
	4/12/2004	1133	-4.16	17.9	np	8.6	0	9.30	
	4/15/2004	1545	-3.71	17.9	np	8.67	0	9.23	
	5/19/2004	1243	1.86	17.9	np	9.18	0	8.72	
	7/19/2004	952	-4.71	17.9	np	9.8	0	8.10	
	7/20/2004	1343	1.28	17.9	np	9.85	0	8.05	
	8/17/2004	1152	-0.05	17.9	np	10.15	0	7.75	
	9/16/2004	1042	-0.04	17.9	np	10.07	0	7.83	
MW-20(A)	10/13/2003	1047	-0.1	17.04	np	10.03	0	7.01	15.39
	10/20/2003	1210	1.9	17.04	np	9.88	0	7.16	
	11/12/2003	1150	1.93	17.04	np	9.65	0	7.39	
	12/16/2003	1410	0.34	17.04	np	8.03	0	9.01	
	1/11/2004	1510	4.58	17.04	np	7.41	0	9.63	
	1/13/2004	1630	3.15	17.04	np	7.44	0	9.60	
	2/12/2004	1126	-3.59	17.04	np	7.11	0	9.93	
	3/18/2004	1215	4.37	17.04	np	7.7	0	9.34	
	4/12/2004	1128	-2.84	17.04	np	8.06	0	8.98	
	4/15/2004	1642	-4.14	17.04	np	8.13	0	8.91	
	5/19/2004	1246	1.86	17.04	np	8.63	0	8.41	
	6/16/2004	1415	1.8	17.04	np	8.86	0	8.18	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-20(A) cont.	7/19/2004	947	-4.71	17.04	np	9.27	0	7.77	
	7/20/2004	1444	2.36	17.04	np	9.3	0	7.74	
	8/17/2004	1156	-0.05	17.04	np	9.61	0	7.43	
	9/16/2004	1048	-0.04	17.04	np	9.82	0	7.22	
MW-21(A)	10/13/2003	1035	-0.1	15.90	np	9.22	0	6.68	15.35
	10/20/2003	940	3.26	15.90	np	9.11	0	6.79	
	11/12/2003	1156	1.93	15.90	np	8.91	0	6.99	
	12/16/2003	1216	-0.19	15.90	np	7.49	0	8.41	
	1/11/2004	1503	4.58	15.90	np	6.9	0	9.00	
	1/13/2004	1355	0.66	15.90	np	6.89	0	9.01	
	2/12/2004	1135	-3.92	15.90	np	6.66	0	9.24	
	3/18/2004	1202	4.37	15.90	np	7.17	0	8.73	
	4/12/2004	1138	-4.16	15.90	np	7.49	0	8.41	
	4/16/2004	1115	3.53	15.90	np	7.58	0	8.32	
	5/19/2004	1237	1.86	15.90	np	7.99	0	7.91	
	6/16/2004	1219	1.01	15.90	np	8.21	0	7.69	
	7/19/2004	942	-4.71	15.90	np	8.57	0	7.33	
	7/20/2004	1533	2.73	15.90	np	8.6	0	7.30	
	8/17/2004	1201	-0.05	15.90	np	8.9	0	7.00	
	9/16/2004	1037	-0.04	15.90	np	8.82	0	7.08	
MW-22(A)	10/13/2003	1037	-0.1	16.13	np	9.24	0	6.89	15.08
	10/16/2003	940	0.09	16.13	np	9.21	0	6.92	
	11/12/2003	1203	1.93	16.13	np	8.8	0	7.33	
	12/16/2003	1048	0.48	16.13	np	6.91	0	9.22	
	1/19/2004	815	3.22	16.13	np	6.15	0	9.98	
	3/18/2004	1157	4.37	16.13	np	6.55	0	9.58	
	4/12/2004	1120	-2.84	16.13	np	6.97	0	9.16	
	4/15/2004	1435	-2.62	16.13	np	7.07	0	9.06	
	5/19/2004	1233	1.86	16.13	np	7.66	0	8.47	
	6/16/2004	1210	1.01	16.13	np	7.93	0	8.20	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-22(A) cont.	7/19/2004	1008	-4.71	16.13	np	8.38	0	7.75	
	7/20/2004	1111	-3.82	16.13	np	8.4	0	7.73	
	8/17/2004	1147	-0.05	16.13	np	8.78	0	7.35	
	9/16/2004	1032	-0.04	16.13	np	8.74	0	7.39	
MW-23(A)	10/13/2003	1137	1.5	16.22	np	8.86	0	7.36	14.93
	10/20/2003	1630	0.49	16.22	np	8.71	0	7.51	
	11/12/2003	1013	-0.65	16.22	np	8.3	0	7.92	
	12/16/2003	1250	-0.3	16.22	np	5.36	0	10.86	
	1/11/2004	1543	4.26	16.22	np	4.57	0	11.65	
	1/15/2004	1745	1.31	16.22	np	4.47	0	11.75	
	2/12/2004	1041	-3.59	16.22	np	4.09	0	12.13	
	3/18/2004	1249	3.1	16.22	np	5.13	0	11.09	
	4/12/2004	1112	-2.84	16.22	np	5.69	0	10.53	
	4/15/2004	1201	2.17	16.22	np	5.8	0	10.42	
	5/19/2004	1349	2.56	16.22	np	6.78	0	9.44	
	6/16/2004	1331	1.8	16.22	np	7.18	0	9.04	
	7/19/2004	1032	-2.94	16.22	np	7.8	0	8.42	
	7/20/2004	1645	2.19	16.22	np	7.83	0	8.39	
	8/17/2004	1239	1.62	16.22	np	8.29	0	7.93	
	9/16/2004	1232	3.67	16.22	np	8.2	0	8.02	
MW-24(A)	10/13/2003	1154	1.5	16.56	np	9.15	0	7.41	14.87
	10/21/2003	1430	-1.43	16.56	np	8.52	0	8.04	
	11/12/2003	942	-0.65	16.56	np	8.17	0	8.39	
	12/16/2003	1304	-0.3	16.56	np	4.45	0	12.11	
	1/11/2004	1547	4.26	16.56	np	3.96	0	12.60	
	1/15/2004	1630	0.29	16.56	np	3.85	0	12.71	
	2/12/2004	1022	-2.53	16.56	np	4.05	0	12.51	
	3/18/2004	1301	3.1	16.56	np	4.96	0	11.60	
	4/12/2004	1103	-2.84	16.56	np	5.65	0	10.91	
	4/14/2004	1500	-3.92	16.56	np	5.78	0	10.78	
	5/19/2004	1338	2.56	16.56	np	6.94	0	9.62	
	6/16/2004	1312	1.78	16.56	np	7.08	0	9.48	

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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-24(A) cont.	7/19/2004	1039	-2.94	16.56	np	7.97	0	8.59	
	7/22/2004	1222	-3.63	16.56	np	8.03	0	8.53	
	8/17/2004	1230	1.62	16.56	np	8.49	0	8.07	
	9/16/2004	1221	2.05	16.56	np	8.02	0	8.54	
MW-26(A)	10/13/2003	1150	1.5	16.27	np	9.14	0	7.13	15.35
	10/17/2003	1600	3.29	16.27	np	9.09	0	7.18	
	11/12/2003	947	-0.65	16.27	np	8.46	0	7.81	
	12/16/2003	1259	-0.3	16.27	np	5.51	0	10.76	
	1/11/2004	1548	4.26	16.27	np	4.69	0	11.58	
	1/15/2004	1600	-0.91	16.27	np	4.65	0	11.62	
	2/12/2004	1026	-2.53	16.27	np	4.43	0	11.84	
	3/18/2004	1305	3.1	16.27	np	5.01	0	11.26	
	4/12/2004	1100	-2.84	16.27	np	5.91	0	10.36	
	4/14/2004	1414	-2.64	16.27	np	6	0	10.27	
	5/19/2004	1330	2.56	16.27	np	6.95	0	9.32	
	6/16/2004	1316	1.78	16.27	np	7.31	0	8.96	
	7/19/2004	1037	-2.94	16.27	np	7.98	0	8.29	
	7/22/2004	1140	-3.63	16.27	np	8.02	0	8.25	
	8/17/2004	1226	-0.05	16.27	np	8.5	0	7.77	
	9/16/2004	1217	2.05	16.27	np	8.43	0	7.84	
MW-27(A)	10/13/2003	1213	1.5	16.36	np	9.26	0	7.10	15.24
	10/21/2003	905	2.61	16.36	np	9.02	0	7.34	
	11/12/2003	1000	-0.65	16.36	np	8.54	0	7.82	
	12/16/2003	1329	-0.3	16.36	np	5.74	0	10.62	
	1/11/2004	1556	4.26	16.36	np	4.96	0	11.40	
	1/14/2004	1625	1.19	16.36	np	4.95	0	11.41	
	2/12/2004	1007	-2.53	16.36	np	4.72	0	11.64	
	4/12/2004	1049	-2.84	16.36	np	6.05	0	10.31	
	4/14/2004	1300	-1.18	16.36	np	6.15	0	10.21	
	5/19/2004	1323	1.86	16.36	np	7.05	0	9.31	
	7/19/2004	1048	-2.94	16.36	np	8.05	0	8.31	
	7/22/2004	1100	-4.85	16.36	np	8.11	0	8.25	

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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-28(A)	10/13/2003	1130	1.5	16.13	np	9.05	0	7.08	15.36
	10/17/2003	1415	1.92	16.13	np	9.01	0	7.12	
	11/12/2003	1007	-0.65	16.13	np	8.51	0	7.62	
	12/16/2003	1254	-0.3	16.13	np	6.12	0	10.01	
	1/11/2004	1550	4.26	16.13	np	5.31	0	10.82	
	1/19/2004	1450	-1.95	16.13	np	5.25	0	10.88	
	2/12/2004	1033	-3.59	16.13	np	4.91	0	11.22	
	3/18/2004	1255	3.1	16.13	np	5.77	0	10.36	
	4/12/2004	1110	-2.84	16.13	np	6.25	0	9.88	
	4/14/2004	1612	-4.32	16.13	np	6.31	0	9.82	
	5/19/2004	1346	2.56	16.13	np	7.12	0	9.01	
	6/16/2004	1326	1.78	16.13	np	7.46	0	8.67	
	7/19/2004	1029	-4.71	16.13	np	8.02	0	8.11	
	7/23/2004	905	-3.1	16.13	np	8.1	0	8.03	
	8/17/2004	1235	1.62	16.13	np	8.48	0	7.65	
	9/16/2004	1227	2.05	16.13	np	8.46	0	7.67	
MW-29(A)	10/13/2003	1202	1.5	15.84	np	9.88	0	5.96	15.37
	10/21/2003	1550	-1.89	15.84	np	8.69	0	7.15	
	11/12/2003	934	-0.65	15.84	np	8.33	0	7.51	
	12/16/2003	1309	-0.3	15.84	np	6.02	0	9.82	
	1/11/2004	1552	4.26	15.84	np	5.21	0	10.63	
	1/19/2004	1600	-3.67	15.84	np	5.13	0	10.71	
	2/12/2004	1014	-2.53	15.84	np	4.8	0	11.04	
	3/18/2004	1310	3.1	15.84	np	5.61	0	10.23	
	4/12/2004	1054	-2.84	15.84	np	6.13	0	9.71	
	4/16/2004	1222	3.28	15.84	np	6.25	0	9.59	
	5/19/2004	1330	2.56	15.84	np	6.98	0	8.86	
	6/16/2004	1307	1.78	15.84	np	7.3	0	8.54	
	7/19/2004	1035	-2.94	15.84	np	7.87	0	7.97	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-29(A) cont.	7/22/2004	1301	-2.04	15.84	np	7.91	0	7.93	
	8/17/2004	1220	-0.05	15.84	np	8.31	0	7.53	
	9/16/2004	1213	2.05	15.84	np	8.31	0	7.53	
MW-30(A)	10/13/2003	1000	-1.55	16.67	np	9.91	0	6.76	15.11
	10/16/2003	820	1.18	16.67	np	9.9	0	6.77	
	11/12/2003	1221	1.93	16.67	np	9.42	0	7.25	
	12/16/2003	1201	-0.19	16.67	np	7.49	0	9.18	
	1/11/2004	1452	4.58	16.67	np	6.72	0	9.95	
	1/16/2004	1400	-3.33	16.67	np	6.65	0	10.02	
	2/12/2004	1150	-3.92	16.67	np	6.34	0	10.33	
	4/12/2004	1008	-1.26	16.67	np	7.49	0	9.18	
	4/13/2004	1710	-2.75	16.67	np	7.52	0	9.15	
	5/19/2004	1223	0.49	16.67	np	8.22	0	8.45	
	6/16/2004	1156	1.01	16.67	np	8.55	0	8.12	
	7/19/2004	933	-4.71	16.67	np	9.03	0	7.64	
	7/20/2004	921	-5.4	16.67	np	9.04	0	7.63	
	8/17/2004	1139	-0.05	16.67	np	9.45	0	7.22	
	9/16/2004	1100	-0.04	16.67	np	9.45	0	7.22	
MW-31(A)	10/13/2003	950	-1.55	16.23	np	9.81	0	6.42	15.31
	10/16/2003	1350	2.65	16.23	np	9.77	0	6.46	
	11/12/2003	1210	1.93	16.23	np	9.48	0	6.75	
	12/16/2003	1207	-0.19	16.23	np	7.97	0	8.26	
	1/11/2004	1456	4.58	16.23	np	7.33	0	8.90	
	1/12/2004	1615	4	16.23	np	7.36	0	8.87	
	2/12/2004	1141	-3.92	16.23	np	7.12	0	9.11	
	3/18/2004	1152	4.37	16.23	np	7.64	0	8.59	
	4/12/2004	958	-1.26	16.23	np	7.98	0	8.25	
	4/13/2004	1425	-4.26	16.23	np	8	0	8.23	
	5/19/2004	1218	0.49	16.23	np	8.56	0	7.67	
	6/16/2004	1204	1.01	16.23	np	8.8	0	7.43	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-31(A) cont.	7/19/2004	938	-4.71	16.23	np	9.14	0	7.09	
	7/20/2004	1015	-5.25	16.23	np	9.15	0	7.08	
	8/17/2004	1144	-0.05	16.23	np	9.51	0	6.72	
	9/16/2004	1053	-0.04	16.23	np	9.42	0	6.81	
MW-32(A)	10/13/2003	944	-1.55	16.51	np	10.43	0	6.08	15.36
	10/14/2003	1350	3.21	16.51	np	10.41	0	6.10	
	11/12/2003	1316	3.06	16.51	np	10.07	0	6.44	
	12/16/2003	1039	0.48	16.51	np	8.84	0	7.67	
	1/11/2004	1419	4.01	16.51	np	8.21	0	8.30	
	1/12/2004	1525	3.66	16.51	np	8.3	0	8.21	
	2/12/2004	1241	-3.4	16.51	np	8.5	0	8.01	
	3/18/2004	1056	4.6	16.51	np	8.63	0	7.88	
	4/12/2004	955	-1.26	16.51	np	8.98	0	7.53	
	4/13/2004	1340	-4.26	16.51	np	9.12	0	7.39	
	5/19/2004	1212	0.49	16.51	np	9.56	0	6.95	
	6/16/2004	1130	1.01	16.51	np	9.76	0	6.75	
	7/19/2004	923	-5.63	16.51	np	9.98	0	6.53	
	7/19/2004	1400	2	16.51	np	10	0	6.51	
	8/17/2004	1103	-1.98	16.51	np	10.31	0	6.20	
	9/16/2004	1022	-2.05	16.51	np	10.15	0	6.36	
MW-33(A)	10/13/2003	937	-1.55	16.14	np	10.87	0	5.27	17.31
	10/14/2003	838	-2.15	16.14	np	10.7	0	5.44	
	11/12/2003	1328	3.06	16.14	np	10.33	0	5.81	
	12/16/2003	1034	0.48	16.14	np	9.47	0	6.67	
	1/11/2004	1416	4.01	16.14	np	8.92	0	7.22	
	1/12/2004	1425	2.64	16.14	np	9.23	0	6.91	
	4/12/2004	950	-1.26	16.14	np	9.88	0	6.26	
	4/13/2004	715	2.92	16.14	np	9.92	0	6.22	
	5/19/2004	1129	-1.19	16.14	np	10.58	0	5.56	
	6/16/2004	1117	-0.35	16.14	np	10.68	0	5.46	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-33(A) cont.	7/19/2004	919	-5.63	16.14	np	10.7	0	5.44	
	7/19/2004	1310	0.67	16.14	np	10.76	0	5.38	
	8/17/2004	1053	-1.98	16.14	np	11.02	0	5.12	
	9/16/2004	1017	-2.05	16.14	np	10.75	0	5.39	
MW-34(A)	10/13/2003	1003	-1.55	15.83	np	9.59	0	6.24	15.35
	10/15/2003	930	-0.99	15.83	np	9.57	0	6.26	
	11/12/2003	1308	3.06	15.83	np	9.3	0	6.53	
	12/16/2003	1054	0.48	15.83	np	7.91	0	7.92	
	1/11/2004	1429	4.01	15.83	np	7.28	0	8.55	
	1/13/2004	830	-0.07	15.83	np	7.31	0	8.52	
	2/12/2004	1236	-3.4	15.83	np	7.21	0	8.62	
	3/18/2004	1104	4.6	15.83	np	7.64	0	8.19	
	4/12/2004	1000	-1.26	15.83	np	7.96	0	7.87	
	4/14/2004	720	2.14	15.83	np	8.04	0	7.79	
	5/19/2004	1216	0.49	15.83	np	8.54	0	7.29	
	6/16/2004	1135	1.01	15.83	np	8.76	0	7.07	
	7/19/2004	926	-5.63	15.83	np	9.06	0	6.77	
	7/20/2004	710	-2.99	15.83	np	9.02	0	6.81	
	8/17/2004	1106	-1.98	15.83	np	9.42	0	6.41	
	9/16/2004	1112	-0.04	15.83	np	9.66	0	6.17	
MW-35(A)	10/13/2003	1007	-1.55	16.50	np	9.9	0	6.60	15.32
	10/16/2003	1115	0.27	16.50	np	9.86	0	6.64	
	11/12/2003	1228	1.93	16.50	np	9.47	0	7.03	
	12/16/2003	1154	-0.19	16.50	np	7.7	0	8.80	
	1/11/2004	1449	4.58	16.50	np	6.95	0	9.55	
	1/16/2004	1230	-2.45	16.50	np	6.87	0	9.63	
	2/12/2004	1236	-3.4	16.50	np	6.53	0	9.97	
	3/18/2004	1143	4.37	16.50	np	7.22	0	9.28	
	4/12/2004	1011	-1.26	16.50	np	7.63	0	8.87	
	4/13/2004	1550	-4	16.50	np	7.65	0	8.85	
	5/19/2004	1227	0.49	16.50	np	8.33	0	8.17	
	6/16/2004	1148	1.01	16.50	np	8.63	0	7.87	

Table 2-1
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Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-35(A) cont.	7/19/2004	936	-4.71	16.50	np	9.08	0	7.42	
	7/20/2004	832	-5.4	16.50	np	9.08	0	7.42	
	8/17/2004	1134	-0.05	16.50	np	9.51	0	6.99	
	9/16/2004	1104	-0.04	16.50	np	9.44	0	7.06	
MW-36(A)	10/13/2003	1124	-0.1	16.14	np	8.96	0	7.18	15.36
	10/21/2003	1130	2.25	16.14	np	8.78	0	7.36	
	11/12/2003	926	-1.42	16.14	np	8.41	0	7.73	
	12/16/2003	1322	-0.3	16.14	np	5.74	0	10.40	
	1/11/2004	1605	4.26	16.14	np	5.67	0	10.47	
	1/14/2004	1500	0.02	16.14	np	4.63	0	11.51	
	2/12/2004	1002	-2.53	16.14	np	4.19	0	11.95	
	3/18/2004	1328	3.1	16.14	np	4.83	0	11.31	
	4/12/2004	1043	-2.84	16.14	np	5.48	0	10.66	
	4/14/2004	1230	-1.18	16.14	np	5.55	0	10.59	
	5/19/2004	1320	1.86	16.14	np	6.48	0	9.66	
	6/16/2004	1259	1.78	16.14	np	6.87	0	9.27	
	7/19/2004	1046	-2.94	16.14	np	7.54	0	8.60	
	7/22/2004	1011	-5.09	16.14	np	7.6	0	8.54	
	8/17/2004	1215	-0.05	16.14	np	8.33	0	7.81	
	9/16/2004	1205	2.05	16.14	np	8.34	0	7.80	
MW-37(A)	10/13/2003	1011	-1.55	18.22	np	11.31	0	6.91	15.41
	10/17/2003	810	1.8	18.22	np	11.23	0	6.99	
	11/12/2003	1242	3.06	18.22	np	10.83	0	7.39	
	12/16/2003	1146	-0.19	18.22	8.39	8.4	0.01	9.83	
	1/11/2004	1447	4.58	18.22	7.32	7.33	0.01	10.90	
	2/12/2004	1159	-3.92	18.22	np	6.7	0	11.52	
	3/18/2004	1132	4.37	18.22	Trace	7.57	Trace	10.65	
	4/12/2004	1015	-1.26	18.22	8.05	8.08	0.03	10.17	

Table 2-1
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Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-37(A) cont.	5/19/2004	1429	2.56	18.22	9.02	9.07	0.05	9.19	
	6/16/2004	1142	1.01	18.22	Trace	9.42	Trace	8.80	
	7/19/2004	1108	-2.94	18.22	10.12	10.13	0.01	8.09	
	8/17/2004	1130	-0.05	18.22	8.04	8.05	0.01	10.17	
	9/16/2004	1116	-0.04	18.22	10.77	10.81	0.04	7.41	
MW-38(A)	10/13/2003	1130	1.5	17.20	np	8.95	0	8.25	15.38
	10/21/2003	1040	3.15	17.20	np	8.53	0	8.67	
	11/12/2003	919	-1.42	17.20	np	8.33	0	8.87	
	12/16/2003	1314	-0.3	17.20	np	5.21	0	11.99	
	1/11/2004	1609	4.26	17.20	np	4.26	0	12.94	
	1/14/2004	810	2.72	17.20	np	4.4	0	12.80	
	2/12/2004	954	-2.53	17.20	np	3.72	0	13.48	
	3/18/2004	1322	3.1	17.20	np	4.74	0	12.46	
	4/12/2004	1037	-2.84	17.20	np	5.45	0	11.75	
	4/14/2004	1045	2.07	17.20	np	5.48	0	11.72	
	5/19/2004	1315	1.86	17.20	np	6.48	0	10.72	
	6/16/2004	1254	1.78	17.20	np	6.83	0	10.37	
	7/19/2004	1052	-2.94	17.20	np	7.67	0	9.53	
	7/22/2004	910	-4.31	17.20	np	7.72	0	9.48	
	8/17/2004	1209	-0.05	17.20	np	8.31	0	8.89	
	9/16/2004	1200	2.05	17.20	np	8.1	0	9.10	
MW-39(A)	10/13/2003	1025	-1.55	17.29	np	9.3	0	7.99	15.41
	10/16/2003	1540	3.64	17.29	np	9.22	0	8.07	
	12/16/2003	1104	0.48	17.29	np	5.79	0	11.50	
	1/11/2004	1435	4.01	17.29	np	4.71	0	12.58	
	1/16/2004	925	3.77	17.29	np	4.65	0	12.64	
	2/12/2004	1225	-3.92	17.29	np	4.21	0	13.08	
	3/18/2004	1114	4.6	17.29	np	5.12	0	12.17	
	4/12/2004	1032	-2.84	17.29	np	5.8	0	11.49	
	4/14/2004	920	3.58	17.29	np	5.89	0	11.40	
	5/19/2004	1531	1.47	17.29	np	6.85	0	10.44	
	6/16/2004	1433	1.13	17.29	np	7.24	0	10.05	

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Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-39(A) cont.	7/19/2004	1100	-2.94	17.29	np	8	0	9.29	
	7/21/2004	1333	0.54	17.29	np	8.05	0	9.24	
	8/17/2004	1116	-1.98	17.29	np	8.6	0	8.69	
	9/16/2004	1135	2.05	17.29	np	8.51	0	8.78	
MW-40(A)	10/13/2003	1025	-1.55	16.17	np	9.56	0	6.61	15.42
	10/17/2003	935	0.7	16.17	np	9.51	0	6.66	
	11/12/2003	1235	3.06	16.17	9.18	9.27	0.09	6.98	
	12/16/2003	1138	-0.19	16.17	np	7.45	0	8.72	
	1/11/2004	1444	4.58	16.17	np	6.68	0	9.49	
	1/20/2004	800	1.34	16.17	np	6.64	0	9.53	
	2/12/2004	1211	-3.92	16.17	np	6.24	0	9.93	
	3/18/2004	1125	4.6	16.17	np	6.96	0	9.21	
	4/12/2004	1018	-1.26	16.17	np	7.41	0	8.76	
	4/16/2004	1420	0.37	16.17	np	7.48	0	8.69	
	5/19/2004	1506	2.39	16.17	8.02	8.06	0.04	8.14	
	6/16/2004	1447	1.13	16.17	8.39	8.41	0.02	7.78	
	7/19/2004	1106	-2.94	16.17	8.88	8.95	0.07	7.28	
	8/17/2004	1126	-1.98	16.17	9.3	9.37	0.07	6.86	
	9/16/2004	1124	-0.04	16.17	np	9.14	0	7.03	
MW-41(A)	10/13/2003	907	-2.52	15.67	np	9.23	0	6.44	15.35
	10/14/2003	1540	2.91	15.67	np	9.25	0	6.42	
	11/12/2003	1417	3.65	15.67	np	8.91	0	6.76	
	12/16/2003	937	1.46	15.67	np	7.39	0	8.28	
	1/11/2004	1342	4.01	15.67	np	6.72	0	8.95	
	1/16/2004	1125	0.54	15.67	np	7.12	0	8.55	
	2/12/2004	1400	-2.19	15.67	6.41	6.71	0.3	9.22	
	3/18/2004	1004	3.9	15.67	6.95	7.92	0.97	8.59	
	4/12/2004	922	0.43	15.67	7.29	7.91	0.62	8.30	
	5/19/2004	1005	-2.92	15.67	8	8.25	0.25	7.64	
	7/19/2004	841	-4.71	15.67	8.64	8.66	0.02	7.03	
	8/17/2004	958	-3.83	15.67	Trace	9.04	Trace	6.63	
	9/16/2004	917	-3.7	15.67	np	8.87	0	6.80	

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Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-42(A)	10/13/2003	859	-2.52	15.91	np	9.39	0	6.52	15.37
	10/15/2003	1100	-0.18	15.91	np	9.38	0	6.53	
	11/12/2003	1408	3.65	15.91	np	9.06	0	6.85	
	12/16/2003	925	2.67	15.91	np	7.52	0	8.39	
	1/11/2004	1340	4.01	15.91	6.83	6.9	0.07	9.07	
	2/12/2004	1352	-2.19	15.91	6.41	7.47	1.06	9.36	
	3/18/2004	957	3.9	15.91	6.91	8.6	1.69	8.78	
	4/12/2004	926	0.43	15.91	7.29	8.89	1.6	8.41	
	5/19/2004	1029	-2.92	15.91	8	9.5	1.5	7.72	
	6/16/2004	1007	-1.94	15.91	8.35	8.87	0.52	7.49	
	7/19/2004	844	-5.63	15.91	8.78	9.15	0.37	7.08	
	8/17/2004	953	-3.83	15.91	9.2	9.57	0.37	6.66	
	9/16/2004	911	-3.7	15.91	8.89	8.91	0.02	7.02	
MW-43(A)	10/13/2003	857	-2.52	15.94	np	9.07	0	6.87	15.35
	10/13/2003	1645	0.78	15.94	np	9.01	0	6.93	
	11/12/2003	1403	3.65	15.94	np	8.74	0	7.20	
	12/16/2003	930	1.46	15.94	np	6.97	0	8.97	
	1/11/2004	1337	4.01	15.94	np	6.24	0	9.70	
	1/12/2004	1053	-1.03	15.94	np	6.33	0	9.61	
	2/12/2004	1347	-2.19	15.94	np	6	0	9.94	
	3/18/2004	953	3.9	15.94	np	6.62	0	9.32	
	4/12/2004	928	0.43	15.94	np	7.05	0	8.89	
	4/13/2004	1230	-3.33	15.94	np	7.1	0	8.84	
	5/19/2004	1050	-1.19	15.94	np	7.81	0	8.13	
	6/16/2004	1002	-1.94	15.94	np	8.02	0	7.92	
	7/19/2004	850	-5.63	15.94	np	8.52	0	7.42	
	7/21/2004	1133	-2.95	15.94	np	8.56	0	7.38	
	8/17/2004	950	-3.83	15.94	np	8.97	0	6.97	
	9/16/2004	908	-3.7	15.94	np	8.62	0	7.32	
MW-44(A)	10/13/2003	1010	-1.55	15.31	np	8.22	0	7.09	15.41
	10/17/2003	1135	0.72	15.31	np	8.17	0	7.14	
	11/12/2003	1302	3.06	15.31	np	7.95	0	7.36	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-44(A) cont.	12/16/2003	1132	-0.19	15.31	5.88	6.02	0.14	9.41	
	1/11/2004	1442	4.58	15.31	5.1	5.24	0.14	10.19	
	2/12/2004	1217	-3.92	15.31	4.15	4.34	0.19	11.13	
	3/18/2004	1119	4.6	15.31	4.82	4.99	0.17	10.46	
	4/12/2004	1020	-1.26	15.31	8.29	9.04	0.75		
	5/19/2004	1509	2.39	15.31	6.14	6.91	0.77	9.07	
	6/16/2004	1439	1.13	15.31	6.37	6.75	0.38	8.89	
	7/19/2004	1104	-2.94	15.31	7.12	7.57	0.45	8.13	
	8/17/2004	1121	-1.98	15.31	7.77	8.09	0.32	7.50	
	9/16/2004	1129	-0.04	15.31	6.68	6.8	0.12	8.61	
MW-45(A)	10/13/2003	1018	-1.55	17.32	np	9.92	0	7.40	17.16
	10/16/2003	1730	2.55	17.32	np	9.81	0	7.51	
	11/12/2003	1256	3.06	17.32	np	9.13	0	8.19	
	12/16/2003	1114	0.48	17.32	np	6.41	0	10.91	
	1/11/2004	1440	4.58	17.32	np	5.39	0	11.93	
	1/16/2004	1110	0.54	17.32	np	5.27	0	12.05	
	2/12/2004	1229	-3.92	17.32	np	4.44	0	12.88	
	3/18/2004	1109	4.6	17.32	np	5.69	0	11.63	
	4/12/2004	1029	-1.26	17.32	np	6.35	0	10.97	
	4/14/2004	820	3.11	17.32	np	6.42	0	10.90	
	5/19/2004	1532	1.47	17.32	np	7.41	0	9.91	
	6/16/2004	1425	1.8	17.32	np	7.71	0	9.61	
	7/19/2004	1057	-2.94	17.32	np	8.4	0	8.92	
	7/21/2004	1444	1.91	17.32	np	8.45	0	8.87	
	8/17/2004	1113	-1.98	17.32	np	8.97	0	8.35	
	9/16/2004	1139	2.05	17.32	np	8.8	0	8.52	
MW-46(A)	10/13/2003	919	-2.52	16.00	np	7.46	0	8.54	15.34
	10/14/2003	1015	-1.65	16.00	np	7.38	0	8.62	
	11/12/2003	857	-1.42	16.00	np	6.64	0	9.36	
	12/16/2003	837	2.67	16.00	np	3.2	0	12.80	
	1/11/2003	1318	2.89	16.00	np	2.47	0	13.53	
	1/14/2004	1020	-0.22	16.00	np	2.9	0	13.10	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-46(A) cont.	2/12/2004	901	-1.02	16.00	np	2.26	0	13.74	
	3/18/2004	1040	4.6	16.00	np	3.52	0	12.48	
	4/12/2004	850	0.43	16.00	np	4.2	0	11.80	
	4/12/2004	1555	-2.94	16.00	np	4.21	0	11.79	
	5/19/2004	1145	0.49	16.00	np	5.35	0	10.65	
	6/16/2004	912	-3.55	16.00	np	5.58	0	10.42	
	7/19/2004	818	-5.2	16.00	np	6.41	0	9.59	
	7/21/2004	1005	-5.45	16.00	np	6.45	0	9.55	
	8/17/2004	942	-3.83	16.00	np	7	0	9.00	
	9/16/2004	843	-3.7	16.00	np	6.55	0	9.45	
MW-47(A)	10/13/2003	907	-2.52	16.39	np	8.42	0	7.97	15.37
	10/13/2003	1745	-1.15	16.39	np	8.39	0	8.00	
	11/12/2003	911	-1.42	16.39	np	7.65	0	8.74	
	12/16/2003	851	2.67	16.39	np	4.81	0	11.58	
	1/11/2004	1328	2.89	16.39	np	4.03	0	12.36	
	1/14/2004	1230	-2.08	16.39	np	4.35	0	12.04	
	2/12/2004	923	-1.02	16.39	np	3.82	0	12.57	
	3/18/2004	1050	4.6	16.39	np	5.43	0	10.96	
	4/12/2004	846	0.43	16.39	np	5.42	0	10.97	
	4/12/2004	1440	-4.26	16.39	np	5.42	0	10.97	
	5/19/2004	1152	0.49	16.29	np	6.41	0	9.88	
	6/16/2004	929	-3.55	16.29	np	6.68	0	9.61	
	7/19/2004	822	-5.2	16.29	np	7.36	0	8.93	
	7/21/2004	755	-3.75	16.29	np	7.38	0	8.91	
	8/17/2004	932	-3.83	16.29	np	7.88	0	8.41	
	9/16/2004	852	-3.7	16.29	np	7.72	0	8.57	
MW-48(A)	10/13/2003	915	-2.52	16.21	np	8.51	0	7.70	15.88
	10/14/2003	1215	0.87	16.21	np	8.48	0	7.73	
	11/12/2003	905	-1.42	16.21	np	7.9	0	8.31	
	12/16/2003	844	2.67	16.21	np	5.65	0	10.56	
	1/11/2004	1325	2.89	16.21	np	4.97	0	11.24	
	1/14/2004	1130	-1.44	16.21	np	5.25	0	10.96	

Table 2-1
Groundwater Measurements
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Locator ID	Date	Time	Observed Tide Levels (Tongue Pt)	Top of Casing (feet MSL)	Depth to Product (feet)	Depth to Water (feet)	Product Thickness (feet)	Corrected Water Elevation (feet)	Depth to Bottom (feet)
MW-48(A) cont.	2/12/2004	910	-1.02	16.21	np	4.8	0	11.41	
	3/18/2004	1046	4.6	16.21	np	5.66	0	10.55	
	4/12/2004	853	0.43	16.21	np	6.12	0	10.09	
	4/12/2004	1345	-5.05	16.21	np	6.14	0	10.07	
	5/19/2004	1159	0.49	16.21	np	6.89	0	9.32	
	6/16/2004	922	-3.55	16.21	np	7.13	0	9.08	
	7/19/2004	815	-5.2	16.21	np	7.63	0	8.58	
	7/21/2004	901	-4.95	16.21	np	7.66	0	8.55	
	8/17/2004	936	-3.83	16.21	np	8.1	0	8.11	
	9/16/2004	848	-3.7	16.21	np	7.98	0	8.23	
R-1(M)	10/22/2003	1340	0.58	13.77	np	4.55	0	9.22	
	11/12/2003	1449	3.39	13.77	np	5.06	0	8.71	
	12/16/2003	948	1.46	13.77	np	3.51	0	10.26	
	1/11/2004	1352	4.01	13.77	np	2.87	0	10.90	
Pier2(A)	12/16/2003	1628	1.91	17.37	np	10.51	0	6.86	4.95
	1/11/2004	1425	4.01	17.37	np	8.33	0	9.04	5.03
	2/12/2004	1453	-0.76	17.37	np	13.37	0	4.00	4.76
	3/18/2004	850	2.49	17.37	np	10.5	0	6.87	4.38
	4/12/2004	937	-1.26	17.37	np	12.07	0	5.30	6.56
	5/19/2004	1130	0.49	17.37	np	14.37	0	3.00	2.51
	6/16/2004	1104	-0.35	17.37	np	14.2	0	3.17	3.52
	7/19/2004	914	-5.63	17.37	np	18.43	0	-1.06	4.57
	8/17/2004	1041	-1.98	17.37	np	16.75	0	0.62	2.60
	9/16/2004	1011	-2.05	17.37	np	15.71	0	1.66	3.71

NOTE:
Elevation datum from November 2003 survey.

Table 3-1
Identification of Chemicals of Potential Concern for Soil
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Chemicals of Interest	Sample Size	Detection Frequency (%)	Background Concentration[a] (mg/kg)	Maximum Detected Concentration (mg/kg)	Screening Value[b] (mg/kg)	Chemical Risk Score[c]		Comment
Volatile Organic Compounds								
1,2,4-Trimethylbenzene	234	46.2	NA	6.89E+02	1.70E+02	4.1E+00	**	COPC
1,2-Dichloroethane	236	0.8	NA	3.15E-04	6.00E-01	5.3E-04		IFD, BSL
1,3,5-Trimethylbenzene	236	41.9	NA	1.89E+02	7.00E+01	2.7E+00	**	COPC
1,4-Dichlorobenzene	98	1.0	NA	2.22E-04	7.90E+00	2.8E-05		IFD, BSL
2-Butanone	98	4.1	NA	1.45E-01	1.10E+05	1.3E-06		IFD, BSL
4-Isopropyltoluene	98	6.1	NA	4.34E+00	NV	NA		COPC(NTD)
Acetone	96	22.9	NA	1.00E-02	5.40E+04	1.9E-07		BSL
Benzene	470	13.6	NA	1.72E+01	1.40E+00	1.2E+01	**	COPC
Bromomethane	95	4.2	NA	4.28E-04	1.30E+01	3.3E-05		IFD, BSL
Carbon Disulfide	98	7.1	NA	3.89E-03	7.20E+02	5.4E-06		BSL
Chloromethane	98	2.0	NA	1.67E-02	1.60E+02	1.0E-04		IFD, BSL
Ethylbenzene	469	30.9	NA	2.04E+02	4.00E+02	5.1E-01	**	COPC(MC)
Formaldehyde	5	20.0	NA	2.80E+00	1.00E+05	2.8E-05		BSL
Isopropylbenzene	236	28.4	NA	2.26E+01	2.00E+03	1.1E-02		BSL
Methyl iodide	96	1.0	NA	4.99E-03	NV	NA		IFD
Methylene Chloride	97	7.2	NA	1.77E-02	2.10E+01	8.4E-04		BSL
Naphthalene	249	45.0	NA	1.32E+02	1.90E+02	6.9E-01	**	COPC(MC)
n-Butylbenzene	98	14.3	NA	1.50E+01	2.40E+02	6.3E-02	**	COPC(MC)
n-Propylbenzene	236	34.3	NA	9.13E+01	2.40E+02	3.8E-01	**	COPC(MC)
sec-Butylbenzene	98	5.1	NA	4.88E+00	2.20E+02	2.2E-02	**	COPC(MC)
tert-Butylbenzene	98	1.0	NA	9.61E-03	3.90E+02	2.5E-05		IFD, BSL
Tetrachloroethene	98	13.3	NA	5.98E-03	1.30E+00	4.6E-03		BSL
Toluene	468	14.5	NA	1.69E+02	5.20E+02	3.3E-01		BSL
Xylenes	470	32.3	NA	1.16E+03	4.20E+02	2.8E+00	**	COPC
Semivolatile Organic Compounds								
2-Methylnaphthalene	2	100.0	NA	8.05E+01	NV	NA		COPC(NTD)
Acenaphthene	187	20.9	NA	8.70E+00	2.90E+04	3.0E-04		BSL
Acenaphthylene	187	3.7	NA	1.65E+00	NV	NA		IFD
Anthracene	187	18.7	NA	3.72E+00	1.00E+05	3.7E-05		BSL

Table 3-1
Identification of Chemicals of Potential Concern for Soil
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Chemicals of Interest	Sample Size	Detection Frequency (%)	Background Concentration[a] (mg/kg)	Maximum Detected Concentration (mg/kg)	Screening Value[b] (mg/kg)	Chemical Risk Score[c]		Comment
Semivolatile Organic Compounds, cont.								
Benzo(a)anthracene	187	11.8	NA	4.43E+00	2.10E+00	2.1E+00	**	COPC
Benzo(a)pyrene	187	13.4	NA	5.84E+00	2.10E-01	2.8E+01	**	COPC
Benzo(b)fluoranthene	187	11.8	NA	3.48E+00	2.10E+00	1.7E+00	**	COPC
Benzo(g,h,i)perylene	187	16.6	NA	6.39E+00	NV	NA		COPC(NTD)
Benzo(k)fluoranthene	187	9.6	NA	3.54E+00	2.10E+01	1.7E-01	**	COPC(MC)
Chrysene	187	22.5	NA	5.39E+00	2.10E+02	2.6E-02	**	COPC(MC)
Dibenzo(a,h)anthracene	187	7.0	NA	6.94E-01	2.10E-01	3.3E+00	**	COPC
Fluoranthene	187	21.4	NA	2.45E+01	2.20E+04	1.1E-03		BSL
Fluorene	187	23.0	NA	2.54E+01	2.60E+04	9.8E-04		BSL
Indeno(1,2,3-cd)pyrene	187	12.8	NA	4.23E+00	2.10E+00	2.0E+00	**	COPC
Naphthalene	187	28.3	NA	7.11E+01	1.90E+02	3.7E-01	**	COPC(MC)
Phenanthrene	187	36.4	NA	6.01E+01	NV	NA		COPC(NTD)
Pyrene	187	35.8	NA	2.44E+01	2.90E+04	8.4E-04		BSL
Hydrocarbons								
Gasoline Range Organics	341	43	NA	7.62E+03	2.20E+04	3.5E-01	**	COPC(MC)
Diesel Range Organics	336	38	NA	5.14E+04	7.00E+04	7.3E-01	**	COPC(MC)
Heavy Oil Range Organics	336	28	NA	1.92E+04	5.00E+02	3.8E+01	**	COPC
Metals								
Arsenic	77	100.0	6	1.28E+01	1.60E+00	8.0E+00	**	COPC
Barium	77	100.0	NV	1.61E+02	6.70E+04	2.4E-03		BSL
Cadmium	100	1.0	1	6.68E-01	4.50E+02	1.5E-03		IFD, BSL
Chromium	103	100.0	27	9.22E+01	4.50E+02	2.0E-01	**	COPC(MC)
Lead	178	97.2	17	2.00E+02	8.00E+02	2.5E-01	**	COPC(MC)
Mercury	77	3.9	0.04	5.51E-01	3.10E+02	1.8E-03		IFD, BSL
Selenium	77	26.0	NV	2.45E+01	5.10E+03	4.8E-03		BSL
Polychlorianted Biphenyls								
Aroclor 1254	0	0.0	NV	0.00E+00	7.40E-01	0.0E+00		IFD
Cumulative Risk Score						1.09E+02		
Total Number of Chemicals						50		

Table 3-2
Identification of Chemicals of Potential Concern for Groundwater
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Chemicals of Interest	Sample Size	Detection Frequency (%)	Maximum Detected Concentration	Screening Value[d]	Chemical Risk Score[c]	Comment
Volatile Organic Compounds (µg/L)						
1,2,4-Trimethylbenzene	159	49.7	3.47E+03	1.20E+01	2.9E+02	COPC
1,2-Dichloroethane	159	1.3	6.80E+00	1.20E-01	5.7E+01	COPC
1,3,5-Trimethylbenzene	159	39.6	8.98E+02	1.20E+01	7.5E+01	COPC
Benzene	159	56.6	3.02E+03	3.50E-01	8.6E+03	COPC
Ethylbenzene	159	67.9	2.89E+03	1.30E+03	2.2E+00	COPC
Isopropylbenzene	159	55.3	2.33E+02	6.60E+02	3.5E-01	BSL
Methyl-t-butyl ether	159	3.1	9.80E-01	1.10E+01	8.9E-02	BSL
Naphthalene	159	56.0	1.50E+03	6.20E+00	2.4E+02	COPC
n-Propylbenzene	159	61.6	6.76E+02	2.40E+02	2.8E+00	COPC
Toluene	159	45.9	8.17E+03	7.20E+02	1.1E+01	COPC
Xylenes	159	54.1	1.49E+04	2.10E+02	7.1E+01	COPC
Semivolatile Organic Compounds (µg/L)						
Acenaphthene	159	37.7	2.45E+00	3.70E+02	6.6E-03	BSL
Acenaphthylene	159	1.3	9.98E-02	NV	NA	COPC(NTD)
Anthracene	159	3.8	1.56E-01	1.80E+03	8.7E-05	BSL
Benzo(a)anthracene	159	5.7	4.75E-02	9.20E-02	5.2E-01	BSL
Benzo(a)pyrene	159	3.1	6.90E-02	9.20E-03	7.5E+00	COPC
Benzo(b)fluoranthene	159	4.4	6.25E-02	9.20E-02	6.8E-01	BSL
Benzo(k)fluoranthene	159	3.1	5.48E-02	9.20E-01	6.0E-02	BSL
Chrysene	159	8.2	5.54E-02	9.20E+00	6.0E-03	BSL
Dibenzo(a,h)anthracene	159	1.3	1.11E-02	9.20E-03	1.2E+00	COPC
Fluoranthene	159	3.1	1.23E-01	1.50E+03	8.2E-05	BSL
Fluorene	159	30.8	4.97E+00	2.40E+02	2.1E-02	BSL
Indeno(1,2,3-cd)pyrene	159	1.9	1.40E-02	9.20E-02	1.5E-01	BSL
Naphthalene	159	60.4	1.64E+03	6.20E+00	2.6E+02	COPC
Phenanthrene	159	19.5	6.93E+00	NV	NA	COPC(NTD)
Pyrene	159	3.8	2.00E-01	1.80E+02	1.1E-03	BSL

Table 3-2
Identification of Chemicals of Potential Concern for Groundwater
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Chemicals of Interest	Sample Size	Detection Frequency (%)	Maximum Detected Concentration	Screening Value[d]	Chemical Risk Score[c]	Comment
Hydrocarbons (mg/L)						
Gasoline Range Organics	159	61.0	6.77E+01	1.00E-01	6.8E+02	COPC
Diesel Range Organics	159	45.3	9.38E+00	8.80E-02	1.1E+02	COPC
Heavy Oil Range Organics	159	13.8	2.18E+00	NV	NA	COPC(NTD)
Metals (mg/L)						
Arsenic	80	76.3	3.72E-02	4.50E-05	8.3E+02	COPC
Barium	80	100.0	2.54E-01	2.60E+00	9.8E-02	BSL
Cadmium	80	5.0	7.00E-04	1.80E-02	3.9E-02	BSL
Calcium	40	100.0	1.36E+02	NV	NA	COPC(NTD)
Chromium	97	71.1	7.09E-02	NV	NA	COPC(NTD)
Chromium, Hexavalent	15	20.0	1.86E-02	1.10E-01	1.7E-01	BSL
Iron	60	100.0	6.83E+01	1.10E+01	6.2E+00	COPC
Lead	155	87.1	6.83E+01	1.50E-02	4.6E+03	COPC
Magnesium	40	100.0	4.68E+01	NV	NA	COPC(NTD)
Manganese	40	100.0	1.05E+01	8.80E-01	1.2E+01	COPC
Mercury	80	12.5	3.30E-04	1.10E-02	3.0E-02	BSL
Potassium	40	100.0	1.24E+01	NV	NA	COPC(NTD)
Selenium	80	31.3	4.41E-03	1.80E-01	2.5E-02	BSL
Silver	80	3.8	1.80E-04	1.80E-01	1.0E-03	BSL
Sodium	40	100.0	9.63E+01	NV	NA	COPC(NTD)

Table 4-1
Human-Exposure Scenarios
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Medium	Exposure Pathway	Receptors	Selected Pathway	Reason for Selection or Exclusion
Soil (0 to 3 feet bgs)	Ingestion Inhalation Dermal absorption	Urban Residents Occupational Workers	Yes	Commercial and industrial workers may be present over most of the site. Urban residents may be present on a single property located along West Marine Drive.
Soil (0 to 15 feet bgs)	Ingestion Inhalation Dermal absorption	Construction Workers Excavation Workers	Yes	Excavations may be developed over most of the site. Future construction workers may visit large parcels of land that could support large-scale construction projects.
Vadose-Zone Soil (bottom depth ranges from approximately 6 to 19 feet bgs)	Volatilization to outdoor air	Urban Residents Occupational Workers	Yes	Volatile chemicals in vadose-zone soil may migrate to the surface and enter outdoor air.
Vadose-Zone Soil (bottom depth ranges from approximately 6 to 19 feet bgs)	Volatilization to indoor air	Urban Residents Occupational Workers	Yes	Volatile chemicals in vadose-zone soil may migrate to the surface and enter indoor air.
Soil	Leaching to groundwater	Urban Residents Occupational Workers	No	Leaching to groundwater RBCs are designed to protect water that is used for drinking. Groundwater is not used for drinking, groundwater quality is monitored, and leaching models are not necessary to predict groundwater quality.
Groundwater	Ingestion Inhalation Dermal absorption	Urban Residents Occupational Workers	No	Groundwater in the estimated LOF is not used for drinking. The site and neighboring facilities are supplied with municipal water and will continue to be so supplied in the future.

Table 4-1
Human-Exposure Scenarios
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Medium	Exposure Pathway	Receptors	Selected Pathway	Reason for Selection or Exclusion
Groundwater	Dermal absorption	Excavation Workers	Yes	Shallow groundwater is located within 15 feet of the ground surface (reasonable maximum bottom depth of excavations) in the northern portion of the site.
Groundwater	Volatilization to outdoor air	Urban Residents Occupational Workers	Yes	Volatile chemicals in groundwater may migrate to the surface and enter outdoor air.
Groundwater	Volatilization to indoor air	Urban Residents Occupational Workers	Yes	Volatile chemicals in groundwater may migrate to the surface and enter indoor air.
Sediment	Ingestion Dermal absorption	Recreationists	No	Impacted sediment is located in Slip 2 and it is unlikely that this area will be used for recreational fishing or boating.
Surface Water	Ingestion Dermal absorption	Recreationists	No	Waterborne concentrations of site-related chemicals are expected to be very low. It is unlikely that recreationists would have significant exposure to chemicals in surface water.
Sediment and Surface Water	Fish/shellfish ingestion	Recreationists	No	Dietary exposure to site-related chemicals that bioaccumulate from water or sediment into tissues of fish and shellfish is expected to be insignificant.

Table 5-1
Exceedance of Screening Levels in Soil (mg/kg)
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Sample ID	Date	Feet bgs	Analyte	Detected Concentration	Screening Level	Screening Level(s) Exceeded
SB-602(N)-7	9/13/2002	7	1,3,5-Trimethylbenzene	189	140	RBC Soil Vapor Intrusion—Occupational
SB-612 (N)-7	9/12/2002	7	1,3,5-Trimethylbenzene	148	140	RBC Soil Vapor Intrusion—Occupational
SB-006(A)-7	3/31/2004	7	Benzene	4.39	1.2	RBC Soil Vapor Intrusion—Occupational
SB-316-D-10.0	8/20/2002	10	Benzene	1.52	1.2	RBC Soil Vapor Intrusion—Occupational
SB-501 (M) 8-12	8/29/2002	10	Benzene	6.11	1.2	RBC Soil Vapor Intrusion—Occupational
SB-506 (M) 8-12	8/29/2002	10	Benzene	2.14	1.2	RBC Soil Vapor Intrusion—Occupational
SB-507 (M) 8-12	8/29/2002	10	Benzene	2.61	1.2	RBC Soil Vapor Intrusion—Occupational
SB-508 (M) 8-12	8/29/2002	10	Benzene	3.12	1.2	RBC Soil Vapor Intrusion—Occupational
SB-510 (M) 8-12	8/29/2002	10	Benzene	1.43	1.2	RBC Soil Vapor Intrusion—Occupational
SB-602(N)-7	9/13/2002	7	Benzene	7.84	1.2	RBC Soil Vapor Intrusion—Occupational
SB-605(N)-7	9/13/2002	7	Benzene	3.22	1.2	RBC Soil Vapor Intrusion—Occupational
SB-612 (N)-7	9/12/2002	7	Benzene	17.2 / 5.35	1.2	RBC Soil Vapor Intrusion—Occupational
SB-720(P)-8.5	8/23/2002	8.5	Benzene	5.86	1.2	RBC Soil Vapor Intrusion—Occupational
SB-820 (Q)-9C	8/29/2002	9	Benzene	3.54	1.2	RBC Soil Vapor Intrusion—Occupational
SB-821 (Q)-5	8/29/2002	5	Benzene	1.29	1.2	RBC Soil Vapor Intrusion—Occupational
SB-008(A)-2	8/26/2003	2	Benzo(a)pyrene	2.59	0.27	DEQ RBC Occupational—Direct Contact
SB-008(A)-2	8/26/2003	2	Benzo(a)pyrene	2.59	2.1	RBC Soil Ingestion/Contact—Construction Worker
SB-255(C)-7	9/4/2003	7	Benzo(a)pyrene	5.84	2.1	RBC Soil Ingestion/Contact—Construction Worker
SB-008(A)-2	8/26/2003	2	Benzo(b)fluoranthene	3.14	2.7	RBC Direct Contact—Occupational
SB-008(A)-2	8/26/2003	2	Dibenzo(a,h)anthracene	0.661	0.27	RBC Direct Contact—Occupational
SB-510 (M) 8-12	8/29/2002	10	Diesel-Range Organics	35,500	23,000	RBC Soil Ingestion/Contact—Construction Worker
SB-904 (S)-12	8/26/2002	12	Diesel-Range Organics	23,100	23,000	RBC Soil Ingestion/Contact—Construction Worker
SB-027 (A)-11	9/14/2005	11	Diesel-Range Organics	31,900	23,000	RBC Soil Ingestion/Contact—Construction Worker
SB-021(A)-11.5	9/14/2005	11.5	Diesel-Range Organics	51,400	23,000	RBC Soil Ingestion/Contact—Construction Worker

Table 5-2
Exceedance of Screening Levels for Heavy-Oil-Range Organics in Soil (mg/kg)
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Sample ID	Date	Feet bgs	Analyte	Detected Concentration	Screening Level	Screening Level(s) Exceeded
EX-3/S-1	3/31/2004	1	Heavy-Oil-Range Organics	760	500	DEQ Soil Matrix Level 2
SB-022 (A)-10.5	9/14/2005	10.5	Heavy-Oil-Range Organics	720	500	DEQ Soil Matrix Level 2
SB254(C)-2	9/4/2003	2	Heavy-Oil-Range Organics	1,010	500	DEQ Soil Matrix Level 2
SB-321(D)-2	9/9/2003	2	Heavy-Oil-Range Organics	3,560	500	DEQ Soil Matrix Level 2
SB-321(D)-5	9/9/2003	5	Heavy-Oil-Range Organics	19,200	500	DEQ Soil Matrix Level 2
SB-710(P)-3	8/21/2002	3	Heavy-Oil-Range Organics	2,450	500	DEQ Soil Matrix Level 2
SB-712(P)-10	8/21/2002	10	Heavy-Oil-Range Organics	1,630	500	DEQ Soil Matrix Level 2
SB-712(P)-2	8/21/2002	2	Heavy-Oil-Range Organics	2,110	500	DEQ Soil Matrix Level 2
SB-804(Q)-2	8/26/2002	2	Heavy-Oil-Range Organics	953	500	DEQ Soil Matrix Level 2
SB815(Q)-4.5	8/27/2002	4.5	Heavy-Oil-Range Organics	571	500	DEQ Soil Matrix Level 2
SB-829(Q)-9	8/28/2002	9	Heavy-Oil-Range Organics	926	500	DEQ Soil Matrix Level 2
SB-833 (Q)-0	8/28/2002	0	Heavy-Oil-Range Organics	563	500	DEQ Soil Matrix Level 2
SB-904(S)-4	8/26/2002	4	Heavy-Oil-Range Organics	3,070	500	DEQ Soil Matrix Level 2
SB-905(S)-4	8/26/2002	4	Heavy-Oil-Range Organics	7,500	500	DEQ Soil Matrix Level 2
SB-906(S)-4	8/27/2002	4	Heavy-Oil-Range Organics	1,100	500	DEQ Soil Matrix Level 2
SB-908(S)-4	8/27/2002	4	Heavy-Oil-Range Organics	12,300	500	DEQ Soil Matrix Level 2
SB-909(S)-10	8/27/2002	10	Heavy-Oil-Range Organics	894	500	DEQ Soil Matrix Level 2
SB-909(S)-4	8/27/2002	4	Heavy-Oil-Range Organics	5,500	500	DEQ Soil Matrix Level 2
SB-913(S)-2	9/3/2003	2	Heavy-Oil-Range Organics	6,390	500	DEQ Soil Matrix Level 2
SB-913(S)-7	9/3/2003	7	Heavy-Oil-Range Organics	1,250	500	DEQ Soil Matrix Level 2

Table 5-3
Cancer Risk Estimates for PAHs in Soil with Elevated Heavy-Oil-Range Organics Concentrations (mg/kg)
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Sample ID	Sample Date	Feet bgs	Benzo(a) Anthracene	Cancer Risk	Benzo(a) Pyrene	Cancer Risk	Benzo(b) Fluoranthene	Cancer Risk	Benzo(k) Fluoranthene	Cancer Risk
DEQ RBC—Occupational Direct Contact			2.7		0.27		2.7		27	
DEQ RBC—Construction Worker Direct Contact			21		2.1		21		210	
Ex-3/S-1	3/31/2004	1	0.0967	3.6E-08	0.102	3.8E-07	0.0941	3.5E-08	0.0592	2.2E-09
SB-254(C)-2	9/4/2003	2	0.117	4.3E-08	0.167	6.2E-07	0.249	9.2E-08	0.0335 U	1.2E-09
SB-913(S)-2	9/3/2003	2	0.335 U	1.2E-07	0.335 U	1.2E-06	0.335 U	1.2E-07	0.335 U	1.2E-08
SB-710(P)-3	8/21/2002	3	0.0134 U	5.0E-09	0.0117	4.3E-08	0.0268 U	9.9E-09	0.0134 U	5.0E-10
SB-906 (S)-4	8/27/2002	4	0.0067 U	3.2E-10	0.0067 U	3.2E-09	0.0067 U	3.2E-10	0.0067 U	3.2E-11
SB-908 (S)-4	8/27/2002	4	0.254	1.2E-08	0.148	7.0E-08	0.0868	4.1E-09	0.148	7.0E-10
SB-909 (S)-4	8/27/2002	4	0.067 U	3.2E-09	0.067 U	3.2E-08	0.067 U	3.2E-09	0.067 U	3.2E-10
SB-913(S)-7	9/3/2003	7	0.1675 U	8.0E-09	0.1675 U	8.0E-08	0.1675 U	8.0E-09	0.1675 U	8.0E-10
SB-712(P)-10	8/21/2002	10	0.326	1.6E-08	0.151	7.2E-08	0.324	1.5E-08	0.268	1.3E-09

Table 5-3
Cancer Risk Estimates for PAHs in Soil with Elevated Heavy-Oil-Range Organics Concentrations (mg/kg)
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Sample ID	Sample Date	Feet bgs	Chrysene	Cancer Risk	Dibenzo(a,h) Anthracene	Cancer Risk	Indeno(1,2,3-cd) Pyrene	Cancer Risk	Total Excess Cancer Risk
DEQ RBC—Occupational Direct Contact			270		0.27		2.7		
DEQ RBC—Construction Worker Direct Contact			2,100		2.1		21		
Ex-3/S-1	3/31/2004	1	0.106	3.9E-10	0.0233	8.6E-08	0.0629	2.3E-08	5.6E-07
SB-254(C)-2	9/4/2003	2	0.199	7.4E-10	0.0439	1.6E-07	0.1	3.7E-08	9.6E-07
SB-913(S)-2	9/3/2003	2	0.335 U	1.2E-09	0.335 U	1.2E-06	0.335 U	1.2E-07	NC
SB-710(P)-3	8/21/2002	3	0.0368	1.4E-10	0.0134 U	5.0E-08	0.00864	3.2E-09	1.1E-07
SB-906 (S)-4	8/27/2002	4	0.00707	3.4E-12	0.0067 U	3.2E-09	0.00516	2.5E-10	7.3E-09
SB-908 (S)-4	8/27/2002	4	0.585	2.8E-10	0.134 U	6.4E-08	0.134 U	6.4E-09	1.6E-07
SB-909 (S)-4	8/27/2002	4	0.0389	1.9E-11	0.067 U	3.2E-08	0.067 U	3.2E-09	7.4E-08
SB-913(S)-7	9/3/2003	7	0.1675 U	8.0E-11	0.1675 U	8.0E-08	0.1675 U	8.0E-09	NC
SB-712(P)-10	8/21/2002	10	0.698	3.3E-10	0.0475	2.3E-08	0.116	5.5E-09	1.3E-07

Table 5-4
Exceedance of Screening Levels in Groundwater
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Sample ID	Date	Analyte	Units	Detected Concentration	Screening Level	Screening Level Exceeded
MW-26 (A)	1/15/2004	1,2,4-Trimethylbenzene	µg/L	3,120	1,300	RBC for Direct Contact—Excavation Workers
	4/14/2004	1,2,4-Trimethylbenzene	µg/L	2,580	1,300	RBC for Direct Contact—Excavation Workers
	7/22/2004	1,2,4-Trimethylbenzene	µg/L	3,300	1,300	RBC for Direct Contact—Excavation Workers
MW-29 (A)	10/21/2003	1,2,4-Trimethylbenzene	µg/L	1,980	1,300	RBC for Direct Contact—Excavation Workers
	1/19/2004	1,2,4-Trimethylbenzene	µg/L	2,630	1,300	RBC for Direct Contact—Excavation Workers
	4/16/2004	1,2,4-Trimethylbenzene	µg/L	1,770	1,300	RBC for Direct Contact—Excavation Workers
	7/22/2004	1,2,4-Trimethylbenzene	µg/L	2,260	1,300	RBC for Direct Contact—Excavation Workers
MW-40(A)	1/20/2004	1,2,4-Trimethylbenzene	µg/L	3,170	1,300	RBC for Direct Contact—Excavation Workers
	4/16/2004	1,2,4-Trimethylbenzene	µg/L	3,170	1,300	RBC for Direct Contact—Excavation Workers
MW-44 (A)	10/17/2003	1,2,4-Trimethylbenzene	µg/L	3,470	1,300	RBC for Direct Contact—Excavation Workers
MW-42 (A)	10/15/2003	Benzene	µg/L	3,020	1,700	RBC for Direct Contact—Excavation Workers
MW-26 (A)	1/15/2004	Gasoline-Range Organics	mg/L	24.8	12	RBC for Direct Contact—Excavation Workers
	4/14/2004	Gasoline-Range Organics	mg/L	18.5	12	RBC for Direct Contact—Excavation Workers
	7/22/2004	Gasoline-Range Organics	mg/L	26	12	RBC for Direct Contact—Excavation Workers
MW-28(A)	1/19/2004	Gasoline-Range Organics	mg/L	13.8	12	RBC for Direct Contact—Excavation Workers
MW-29 (A)	10/21/2003	Gasoline-Range Organics	mg/L	60.2	12	RBC for Direct Contact—Excavation Workers
	1/19/2004	Gasoline-Range Organics	mg/L	62	12	RBC for Direct Contact—Excavation Workers
	4/16/2004	Gasoline-Range Organics	mg/L	34.2	12	RBC for Direct Contact—Excavation Workers
	7/22/2004	Gasoline-Range Organics	mg/L	39.8	12	RBC for Direct Contact—Excavation Workers
MW-30 (A)	10/16/2003	Gasoline-Range Organics	mg/L	14.7	12	RBC for Direct Contact—Excavation Workers
	7/20/2004	Gasoline-Range Organics	mg/L	12.6	12	RBC for Direct Contact—Excavation Workers
MW-40(A)	1/20/2004	Gasoline-Range Organics	mg/L	31.4	12	RBC for Direct Contact—Excavation Workers
	4/16/2004	Gasoline-Range Organics	mg/L	41.6	12	RBC for Direct Contact—Excavation Workers
MW-42 (A)	10/15/2003	Gasoline-Range Organics	mg/L	18.9	12	RBC for Direct Contact—Excavation Workers
MW-44 (A)	10/17/2003	Gasoline-Range Organics	mg/L	67.7	12	RBC for Direct Contact—Excavation Workers
MW-26 (A)	1/15/2004	Naphthalene	µg/L	1,030	680	RBC for Direct Contact—Excavation Workers
	4/14/2004	Naphthalene	µg/L	801	680	RBC for Direct Contact—Excavation Workers
	7/22/2004	Naphthalene	µg/L	869	680	RBC for Direct Contact—Excavation Workers

Table 5-4
Exceedance of Screening Levels in Groundwater
Astoria Area-Wide Petroleum Site
Astoria, Oregon

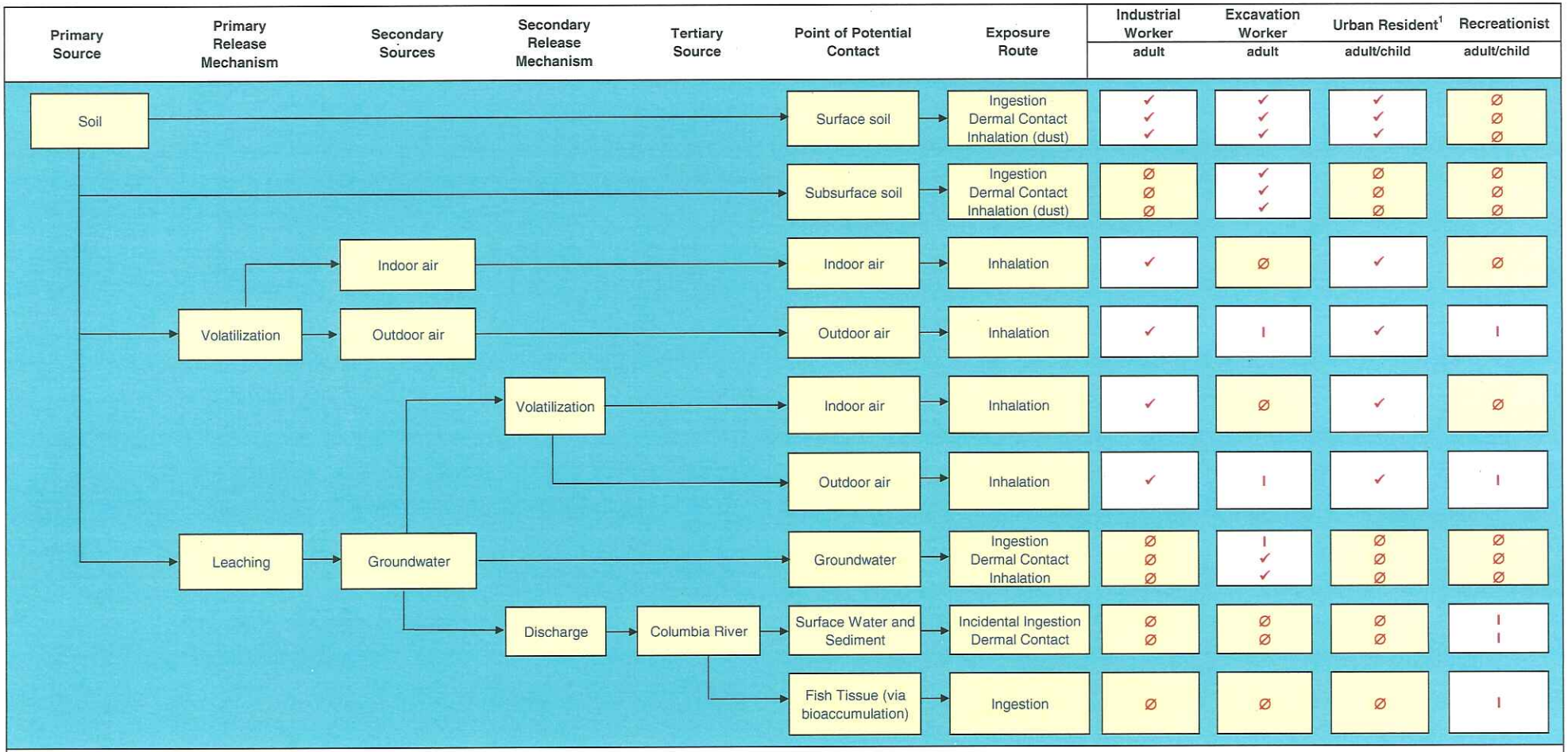
Sample ID	Date	Analyte	Units	Detected Concentration	Screening Level	Screening Level Exceeded
MW-29 (A)	10/21/2003	Naphthalene	µg/L	1,340	680	RBC for Direct Contact—Excavation Workers
	10/21/2003	Naphthalene	µg/L	1,640	680	RBC for Direct Contact—Excavation Workers
	1/19/2004	Naphthalene	µg/L	1,310	680	RBC for Direct Contact—Excavation Workers
	1/19/2004	Naphthalene	µg/L	867	680	RBC for Direct Contact—Excavation Workers
	4/16/2004	Naphthalene	µg/L	1,000	680	RBC for Direct Contact—Excavation Workers
	4/16/2004	Naphthalene	µg/L	806	680	RBC for Direct Contact—Excavation Workers
	7/22/2004	Naphthalene	µg/L	1,360	680	RBC for Direct Contact—Excavation Workers
	7/22/2004	Naphthalene	µg/L	1,040	680	RBC for Direct Contact—Excavation Workers
MW-30 (A)	10/16/2003	Naphthalene	µg/L	1,130	680	RBC for Direct Contact—Excavation Workers
	1/16/2004	Naphthalene	µg/L	1,200	680	RBC for Direct Contact—Excavation Workers
	1/16/2004	Naphthalene	µg/L	696	680	RBC for Direct Contact—Excavation Workers
	4/13/2004	Naphthalene	µg/L	1,030	680	RBC for Direct Contact—Excavation Workers
	7/20/2004	Naphthalene	µg/L	1,240	680	RBC for Direct Contact—Excavation Workers
	7/20/2004	Naphthalene	µg/L	1,130	680	RBC for Direct Contact—Excavation Workers
MW-40 (A)	1/20/2004	Naphthalene	µg/L	682	680	RBC for Direct Contact—Excavation Workers
	1/20/2004	Naphthalene	µg/L	1,220	680	RBC for Direct Contact—Excavation Workers
	4/16/2004	Naphthalene	µg/L	1,500	680	RBC for Direct Contact—Excavation Workers
	4/16/2004	Naphthalene	µg/L	850	680	RBC for Direct Contact—Excavation Workers
MW-44 (A)	10/17/2003	Naphthalene	µg/L	1,050	680	RBC for Direct Contact—Excavation Workers
	10/17/2003	Naphthalene	µg/L	696	680	RBC for Direct Contact—Excavation Workers

Table 5-5
Exceedance of Screening Levels in Soil Vapor
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Sample ID	Date	Analyte	Units	Detected Concentration	Screening Level	Screening Level Exceeded
SVP-01	10/8/2004	Benzene	µg/m3	98,900	5,800	Soil Gas RBC for Occupational Workers
SVP-01	12/29/2004	Benzene	µg/m3	60,700	5,800	Soil Gas RBC for Occupational Workers
SVP-02	10/8/2004	Benzene	µg/m3	57,400	5,800	Soil Gas RBC for Occupational Workers
SVP-02	12/29/2004	Benzene	µg/m3	41,500	5,800	Soil Gas RBC for Occupational Workers
SVP-03	10/8/2004	Benzene	µg/m3	12,800	5,800	Soil Gas RBC for Occupational Workers
SVP-03	12/29/2004	Benzene	µg/m3	8,310	5,800	Soil Gas RBC for Occupational Workers
SVP-01	10/8/2004	Gasoline-Range Organics	ppmv	7,570	2,400	Soil Gas RBC for Occupational Workers
SVP-01	12/29/2004	Gasoline-Range Organics	ppmv	6,650	2,400	Soil Gas RBC for Occupational Workers

FIGURES

Figure 4-1
Conceptual Site Model of
Potential Human Exposure Pathways
Astoria Area-Wide Petroleum Site
Astoria, Oregon



Notes:

1. Urban residents are present only in a four-unit apartment complex on West Marine Drive.

Primary pathway →
Potentially complete exposure route ✓
Incomplete exposure route Ø
Insignificant exposure route I

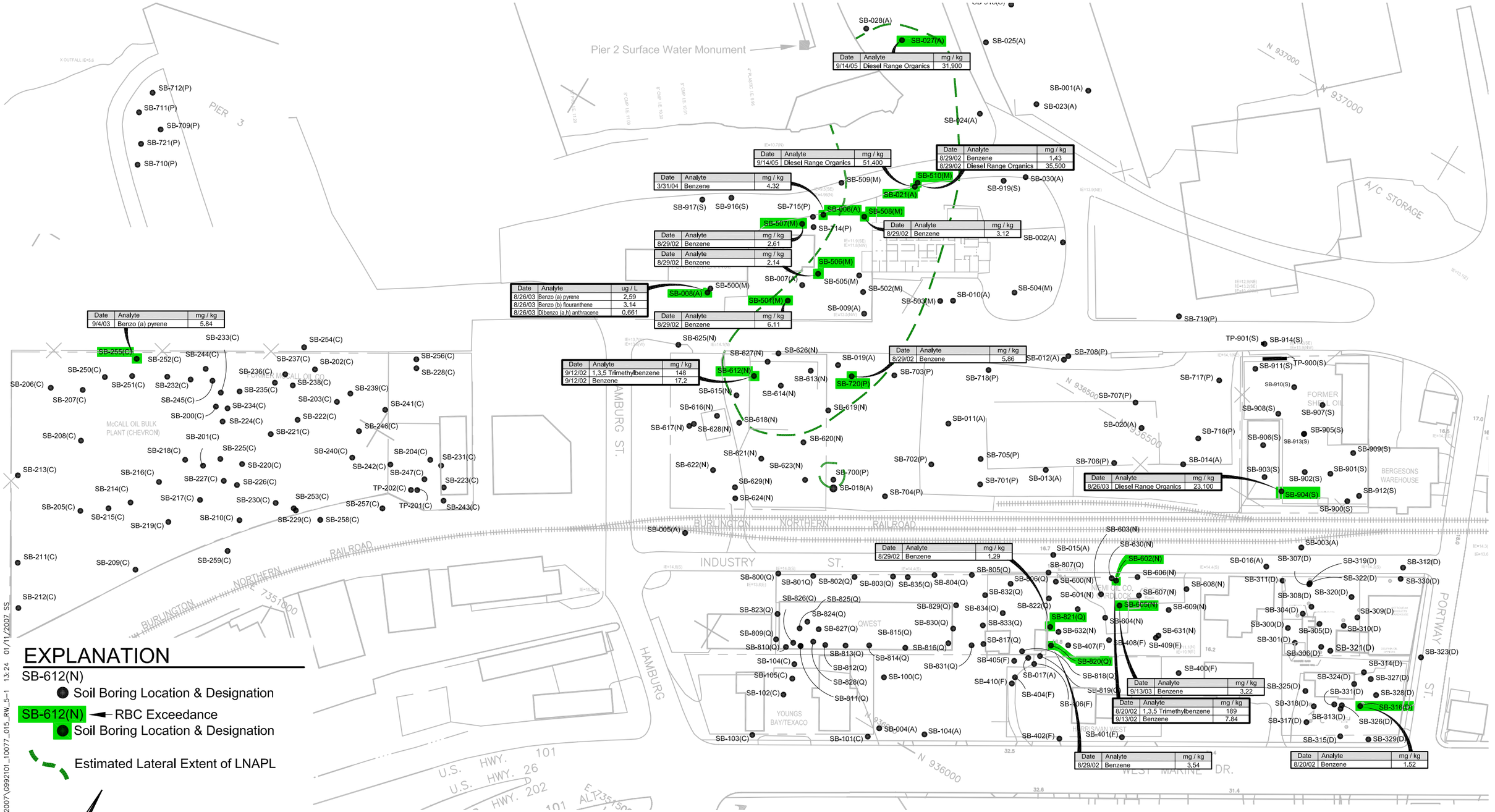


FIGURE 5-1

SOIL BORING LOCATIONS & RBC EXCEEDENCES IN SOIL
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

Date	Analyte	Units
10/15/03	Benzene	3,020 ug/L
10/15/03	Gasoline Range Organics	18.9 mg/L

Date	Analyte	Units
10/17/03	1,2,4 Trimethylbenzene	3,470 ug/L
10/17/03	Gasoline Range Organics	67.7 mg/L
10/17/03	Napthalene	1,050 ug/L

Date	Analyte	Units
4/16/04	1,2,4 Trimethylbenzene	3,170 ug/L
4/16/04	Gasoline Range Organics	41.6 mg/L
4/16/04	Napthalene	1,500 ug/L

Date	Analyte	Units
7/22/04	Gasoline Range Organics	12.6 mg/L
7/22/04	Napthalene	1,240 ug/L

Date	Analyte	Units
7/22/04	1,2,4 Trimethylbenzene	2,260 ug/L
7/22/04	Gasoline Range Organics	39.8 mg/L
7/22/04	Napthalene	1,360 ug/L

Date	Analyte	Units
1/9/04	Gasoline Range Organics	13.8 mg/L

Date	Analyte	Units
7/22/04	1,2,4 Trimethylbenzene	3,300 ug/L
7/22/04	Gasoline Range Organics	26 mg/L
7/22/04	Napthalene	869 ug/L

EXPLANATION

MW-46 — Monitoring Well Location & Designation

MW-46 — RBC Exceedance Monitoring Well Location & Designation

Estimated Lateral Extent of LNAPL

0' 120' 240'

SCALE: 1" = 120'

EnviroLogic Resources, Inc.
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FIGURE 5-2

MONITORING WELL LOCATIONS & RBC EXCEEDENCES IN GROUNDWATER

Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon

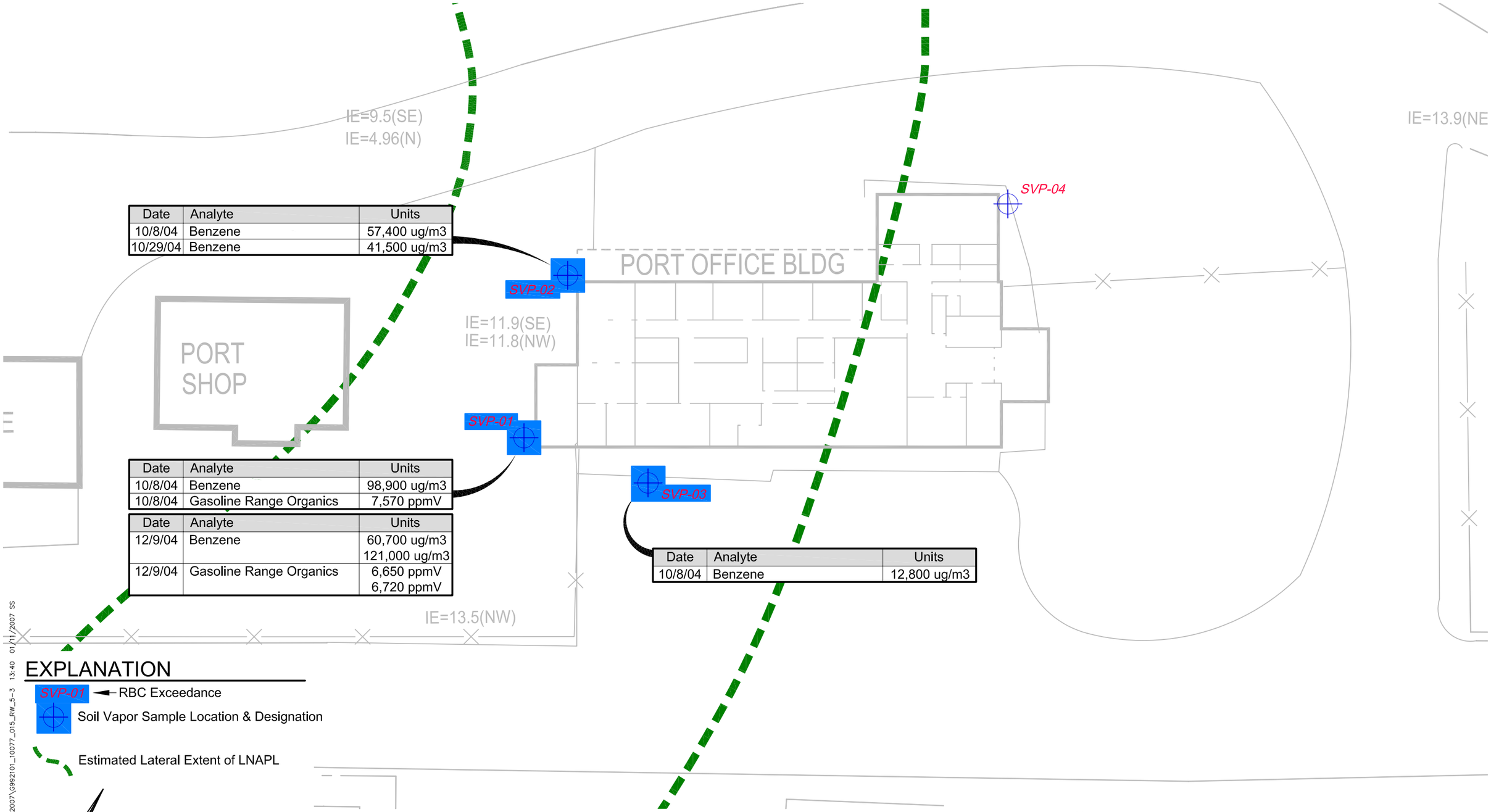


FIGURE 5-3

SOIL VAPOR SAMPLE LOCATIONS & RBC EXCEEDENCES IN SOIL VAPOR
Remedial Investigation/Feasibility Study
Astoria Area-Wide Petroleum Site
Astoria, Oregon