

August 17, 2001

Mr. Bob Alexander Western Steel Casting 145 South Horton Street Seattle, WA 98134

Re: **Limited Subsurface Investigation** Western Steel Casting 145 South Horton Street Seattle, Washington 7606

Dear Mr. Alexander:

This letter report presents the results of our Limited Subsurface Investigation at the referenced property located in Seattle. The project work scope was completed in accordance with our proposal dated June 25, 2001. The property consists of the Western Steel Casting (WSC) foundry and warehouse. The purpose of the current subsurface investigation was to evaluate an area of contamination identified during a previous Hart Crowser investigation of the WSC property conducted in May 2001. The focused area is located in the vicinity of a former oil house and an abandoned underground storage tank (UST).

The following sections summarize the results of the limited subsurface investigation. Supporting tables and figures are presented at the end of the report text. Field methods and boring logs are presented in Appendix A, and laboratory analytical certificates are presented in Appendix B.

Long Beach

SUMMARY OF FINDINGS AND CONCLUSIONS

Soil and groundwater containing concentrations of diesel-range total petroleum hydrocarbons (TPH) exceeding the Adopted Model Toxics Control Act (MTCA) Method A cleanup levels were identified in three Strataprobe borings conducted by Hart Crowser in May 2001. The borings were located on the south and west side of the WSC office (borings

RECEIVED

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P-1, P-9, and P-11 as shown on Figure 2). The diesel-impacted soil appeared to be limited to the upper 8 feet. The lateral extent of contamination was not determined at that time.

On July 6, 2001, Hart Crowser advanced ten Strataprobe borings (P-100 through P-109) surrounding the area of TPH-affected soil and groundwater identified in May. Concentrations of diesel-range TPH in exceedence of Method A cleanup levels for soil and groundwater were detected in four soil borings (P-100, P-102, P-103, and P-108). Based on the soil boring advanced to date and the soil samples analyzed, the estimated lateral extent of soil containing greater than 2,000 milligrams per kilogram (mg/kg) diesel-range TPH is shown on Figure 3. The northern extent of contamination beneath Horton Street was not determined. Samples collected from borings P-103 and P-108 between 8.5 and 9.0 feet contained no detectable TPH. Samples collected between 0 and 3.0 feet did not contain odors or staining indicative of petroleum contamination. Therefore, the vertical extent of contamination appears to be limited to the 3.0 and 8.5 foot depth range within the area outlined on Figure 3. Free phase petroleum product has not been observed in any of the borings.

Groundwater samples were collected and analyzed from three monitoring wells (P-104, P-106, and P-108). Sample P-108 contained 1.0 milligrams per liter (mg/L) diesel-range TPH. A laboratory duplicate contained 1.7 mg/L diesel-range TPH. The adopted Method A cleanup level for diesel-range TPH is 0.5 mg/L. Samples P-104 and P-106 contained no detectable TPH. Based on the presence of TPH in downgradient well P-108, groundwater containing diesel-range TPH exceeding Method A cleanup levels is likely migrating off site to the north toward Horton Street.

We understand that an abandoned UST was partially uncovered by Global Environmental on approximately July 19, 2001. An excavation conducted inside the foundry immediately west of boring P-100 encountered the top of a UST approximately 4 feet below the floor slab. Soil overlying the tank contained a petroleum odor. The UST contained oily sludge and was estimated by Global to be approximately 1,500 gallons in capacity. This UST appears to be associated to a UST fill port located on the north side of the WCS office. The UST also appears to be the likely source of diesel contamination at the property. A 12-inchdiameter water pipe is located immediately above the tank. Due to the water pipe and limited access inside the building, it was determined that it removing the UST would be impractical. The excavation was backfilled with the suspect TPH soils previously excavated from above the tank.

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Recommendations

The UST should be removed or closed in-place in accordance with Ecology UST regulations. The UST should be inerted and cleaned prior to closure. A sample of the UST contents should be collected, analyzed, and evaluated by a marine-chemist. If the presence of dieselrange TPH in soil and groundwater nearby appears to be related to the UST, notification of a release should be reported to the Washington State Department of Ecology.

Remedial measures regarding the diesel-affected soils surrounding the office area should be evaluated. Since most of the petroleum-contaminated soil (PCS) appears to be beneath the office building or adjacent to bag house foundations, a hot spot removal of PCS does not appear practical at this time. *In situ* remedial options include natural attenuation, biosparging, and injection of oxygen release compounds (ORCs). In all cases, future monitoring of the existing wells would be required.

PROJECT BACKGROUND

The WSC site is located on South Horton Street at Occidental Avenue in Seattle's industrial district (Figure 1). The WSC facility spans two parcels separated by vacated Occidental Avenue. The combined square footage of the two parcels is approximately 60,000 square feet. The main WSC foundry is located on the east parcel. Foundry activities include melting of scrap steel in an electric-arc furnace, and molding and finishing of castings used for heavy duty industrial purposes such as rock crushers. The west parcel contains a warehouse used for storage and preparation of molds.

Site History

The property and surrounding area existed as tideflats until filling occurred in the area surrounding First Avenue South in about 1912 to 1914. The source of the fill material was likely from the straightening of the Duwamish Waterway channel or from downtown Seattle regrades. The existing foundry building at 145 South Horton Street was constructed in 1917. Western Steel Casting began operating at the site in 1930. Sanborn fire insurance maps indicate that the building layout was similar to the present configuration. However, an oil house is shown in the 1969 Sanborn on the west side of the foundry, approximately 50 south of the office (Figure 2). Mr. Alexander was not familiar with the oil house, but surmised that oil burners may have been used for ladle preheating. The existing office building was constructed in the 1937 and has been heated electrically.



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The warehouse adjacent to the west of the foundry was constructed in 1914 and contained the Cumberland Coal Company until at least 1939. By 1950, the warehouse was occupied by Hemphill & McKillop for coal storage, and later for storage of industrial supplies. In 1969, the warehouse contained Western Foundry Sand. According to Bob Alexander, WSC purchased the property in 1972. WSC operations in the building have included a maintenance shop and areas for shipping, storage, and mold manufacturing.

May 2001 Subsurface Assessment

In May 2001, Hart Crowser conducted a limited subsurface investigation for the WCS facility. Eleven Strataprobe borings (P-1 through P-11) were conducted on May 5, 2001, at locations throughout the facility as shown on Figure 2. The borings were advanced to depths ranging from 8 to 11 feet below grade. Groundwater was encountered between depths of 5 and 6.5 feet below grade. Grab groundwater samples were collected from five of the borings (P-1, P-4, P-8, P-9, and P-11). Borings P-9 and P-11 were added to the field investigation when a petroleum-sheen was observed on the P-1 water sample. Borings P-9 and P-11 are presumed downgradient relative to P-1.

Grab groundwater samples collected from P-9 and P-11 contained 8.5 and 15 mg/L dieselrange TPH, respectively. These concentrations exceeded the adopted Model Toxics Control Act (MTCA) Method A cleanup level of 0.5 mg/L for diesel-range TPH. The TPH concentrations may have been biased high due to some sample turbidity. No groundwater monitoring wells were installed during the May assessment. Groundwater collected from P-1 had a visible sheen and odor; however, it did not contain detectable concentrations of TPH. Groundwater samples collected and analyzed from borings P-4 and P-8 did not contain detectable TPH.

A soil sample collected from P-11 between 4 to 8 feet below grade contained 3,800 mg/kg diesel-range TPH, exceeding Ecology's adopted Method A cleanup level of 2,000 mg/kg. The sample (P11-S3) collected between 8 to 11 feet did not contain detectable TPH. Therefore, the diesel-impacted soil appeared to be limited to the upper 8 feet. The lateral extent of contamination was not determined at that time.

Petroleum hydrocarbons were not detected in any of the other soil or groundwater samples submitted for analysis.

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JULY 2001 PHASE II ASSESSMENT

To further define the extent of TPH-impacted soil and groundwater identified in May 2001, Hart Crowser advanced ten subsurface Strataprobe explorations (P-100 through P-109) on July 6, 2001, at the locations identified on Figure 3. The Strataprobe borings were advanced to a depth of 9.0 feet below grade. Boring P-100 encountered refusal at 4 feet below grade. Boring P-100A was advanced 6 feet to the east of P-100. Boring P-102 encountered refusal at 6 feet below grade. Boring P-102A was advanced 4 feet north of P-102. Groundwater samples were collected from miniature pre-packed monitoring wells installed in borings P-104, P-106, and P-108. The wells were screened at depths of between 5 to 10 feet below grade.

Subsurface Conditions

Soil encountered in the Strataprobe borings was typically 6 to 8 feet of silty, gravelly, fine to medium Sand overlying native sandy Silt and silty Sand. Silt and clay layers were commonly encountered near the native-fill material interface. Perched groundwater was encountered at depths of ranging from 5.5 to 6.5 feet below ground surface. The property and surrounding neighborhood are generally flat. The industrial area is bounded by Beacon Hill to the east, the Duwamish Waterway to the west, and Elliott Bay to the northwest. Based on past Hart Crowser experience in the surrounding area, the inferred direction of groundwater flow is to the northwest.

Sampling and Chemical Analysis

Soil samples from the borings were field monitored for odors, visual staining, and organic vapors using an HNU photo-ionization detector (PID). The PID measures organic vapors indicative of potential petroleum contaminants. Eighteen soil samples were selected from the Strataprobe soil borings for chemical analysis based on field observations, PID readings, and soil conditions. In general, the soil samples submitted for chemical analysis exhibited petroleum odors, or in the absence of odors, were nearest to the inferred water table elevation at the time of drilling. The samples were stored in a locked Hart Crowser refrigerator and submitted to ESN Northwest Laboratory (Bellevue, Washington) on July 9, 2001. Based on the finding of the May 2001 assessment, the samples were submitted for analysis of diesel-, and oil-range TPH by Ecology Method WTPH-D-extended.

Soil sample chemical analysis results are summarized in Table 1, and groundwater sample chemical analysis results are summarized in Table 2. Results for soil and grab groundwater



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samples collected in May 2001 from borings P-1, P-9, and P-11 are also presented in Tables 1 and 2.

Soil Sample Analyses Results

Diesel-range TPH was detected in ten of the eighteen soil samples at concentrations ranging from 71 to 15,000 mg/kg. The highest concentration was detected in sample P-100A S-2, collected at 3 to 6 feet below grade adjacent to the abandoned UST. Other elevated concentrations were detected in boring P-103 (5,000 mg/kg at 3 to 6 feet, and 11,000 mg/kg at 7 to 8 feet), and P-108 (7,600 mg/kg at 3 to 6 feet, and 2,200 mg/kg at 6 to 7 feet). Soil beneath 8.5 feet exhibited no odors in both borings. Samples collected from the 8.5- to 9-foot-depth range in these borings did not contain detectable TPH.

Soil samples containing concentrations of diesel-range TPH exceeding the adopted Method A cleanup level of 2,000 mg/kg were identified in borings P-100A, P-103, and P-108.

Groundwater Sample Analyses Results

Groundwater samples were collected from the three miniature monitoring wells (P-104, P-106, and P-108). Groundwater sample P-108 contained 1.0 mg/L diesel-range TPH. A laboratory duplicate of P-108 contained 1.7 mg/L diesel-range TPH. The inconsistent concentrations for the P-108 samples may be due to a varying amount of sheen on the water sample. Samples collected from P-104 and P-106 were non-detect for TPH.

Data Quality Evaluation

Hart Crowser reviewed laboratory results for the chemical samples analyzed to verify that the data met acceptable quality assurance/quality control (QA/QC) criteria. The criteria included the following parameters:

- Holding Times;
- Method Blanks;
- Surrogate Recoveries;
- Laboratory Duplicate Relative Percent Difference (RPD);
- Detection Limits; and
- Chain of Custody.



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The laboratory established control limits for the given parameters were met. The samples were received by the laboratory intact, in a sealed cooler containing blue ice. No data were qualified or rejected based on this evaluation for this project.

The chemistry laboratory analytical report for the samples collected in July 2001 are presented in Appendix B.

LIMITATIONS

Work for this project was performed, and this draft letter report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. It is intended for the exclusive use of Western Steel Casting, for specific application to the subject property. This report is not meant to represent a legal opinion. No other warranty, express or implied, is made.

Any questions regarding our work and this letter report, the presentation of the information and the interpretation of the data are welcome and should be referred the undersigned.

Sincerely,

HART CROWSER, INC.

ROB ROBERTS Project Chemist cer@hartcrowser.com JULIE K.W. WUKELIC Principal jkw@hartcrowser.com

Attachments:

Table 1 - Chemical Analysis Results for Soil Samples
Table 2 - Chemical Analysis Results for Groundwater Samples
Figure 1 - Vicinity Map
Figure 2 - Site and Exploration Plan (May 2001)
Figure 3 - TPH-D Results in Soil
Figure 4 - TPH-D Results in Groundwater
Appendix A - Field Methods and Boring Logs
Appendix B - Laboratory Reports, ESN Northwest

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Table 1 - Chemical Analysis Results for Soil Samples

	Adopted Method A Cleanup Level	P1-S2	P1-S3	P11-S2	P11-S3	P100A-S2	P100A-S3	P101-S3	P102A-S2
TPH in mg/kg									
Kerosene/Jet fuel	I	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel oil	2,000	20 U	300	3800	20 U	15000	9700	20 U	860
Heavy oil	2,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	່ 50 U

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	Adopted Method A Cleanup Level	P102A-S3	P103-S3	P103-S3A	P103-S3B	P104-S2	P105-S3	P106-S2	P106-S3
TPH in mg/kg									
Kerosene/Jet fuel		20 U	20 U 🧠	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel oil	2,000	2000	5000	11000	20 U	20 U	20 U	300	20 U
Heavy oil	2,000	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

	Adopted Method A Cleanup Level	P107-S2	P107-S3	P108-S2	P108-S3A	P108-S3B	P109-S2
TPH in mg/kg							
Kerosene/Jet fuel		20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel oil	2,000	71	20 U	7600	2200	20 U	20 U
Heavy oil	2,000	50 U	50 U	50 U	50 U	50 U	50 U

Notes:

U = Not detected at indicated detection limit.

Samples analyzed by ESN Laboratory (Bellevue, Washington). Method A exceedences are **bolded**.

Hart Crowser 7606\ChemRsits.xls - Soil

Table 2 - Chemica	al Analysis Results for Groundwater Samples				Depths of Gra wola somer		
	Adopted Method A Cleanup Level	P1-S4*	P9-S3*	P11-S4*	P104-S4	P106-S4	P108-S4
FPH in mg/L				0.00.11		0.00.11	
Kerosene/Jet fuel		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Diesel/Fuel oil	0.50	0.20 U	8.5	15	0.20 U	0.20 U	1.0 (a)
Heavy oil	0.50	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

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Notes:

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U = Not detected at indicated detection limit.

TPH and volatiles analysis performed by ESN Laboratory (Bellevue, Washington).

Dissolved metals analyzed by Sound Analytical Services (Fife, Washington).

(a) Laboratory duplicate for sample P108-S4 was 1.7 mg/L.

Method A Exceedences are **bolded**.

* Grab groundwater samples from soil borings.

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Hart Crowser 7606\ChemRslts.xls - Water

Vicinity Map



Note: Base map prepared from 7.5x15 minute quadrangle map of Seattle South, dated 1983.





Site and Exploration Plan May 2001





TPH-D Results in Groundwater



7606 Figure 4

HARTCROWSER

APPENDIX A FIELD METHODS AND BORING LOGS.

Hart Crowser 7606 August 17, 2001

APPENDIX A FIELD METHODS AND BORING LOGS

Subsurface explorations, designated P-100 through P-109 were completed via the Strataprobe method to a maximum of 9 feet below grade. Figure 3 shows the locations of these explorations. Strataprobe exploration logs are presented on Figures A-2 through A-11 at the end of this appendix. The exploration logs show our interpretation of conditions encountered in the explorations. They indicate the depth where the soils change. In the field, we classified the samples taken from the explorations according to the methods presented on Figure A-1— Key to Explorations Logs. Figure A-1 also provides a legend explaining the symbols and abbreviations in the logs.

The following sections describe the specific exploration and sample collection methods used, and sample handling and transfer, and decontamination procedures used.

Strataprobe Explorations and Sampling

Under subcontract to Hart Crowser, ESN Drilling of Lacey, Washington, used a truck-mounted Strataprobe drilling rig to collect soil and groundwater samples on July 6, 2001. Strataprobe activities were continuously observed by a Hart Crowser field representative.

Soil samples from the site explorations were obtained at 3-foot-depth intervals using a Probe-Drive Sampler. Strataprobe samples were collected by driving a 1-inch-diameter, stainless steel split-spoon sampler using a hydraulic percussion hammer. Blow counts for the Standard Penetration Test (SPT) cannot be measured using the Strataprobe system; therefore, soil densities and consistencies, are not shown in the logs.

Miniature pre-packed monitoring wells were installed in borings P-104, P-106, and P-108. The wells were screened between 5 and 10 feet. The miniature wells are inserted into the Geoprobe hole. The wells are 3/4-inch-diameter flush thread PVC casing with 0.020 slot screens. The screens are packed with 10-20 mesh sand. The borings were backfilled with bentonite (0 to 3.5 feet below grade) and sealed with concrete and flush-mount monuments. Groundwater was collected using a peristaltic pump equipped with pre-cleaned PVC tubing.

Sample Handling and Transfer

Samples from the Strataprobe explorations were transferred to precleaned, labeled sample jars and bottles for laboratory analyses. Each container was wiped clean and capped with a Teflon-lined lid, then placed in an insulated ice chest with ice for transfer to Hart Crowser's refrigerated storage locker on July 6, 2001. The samples were transported to the ESN laboratory in Bellevue on July 9, 2001. Sample custody forms accompanied the samples to the laboratory. The samples were transported with blue ice and were received at the laboratory in good condition.

Decontamination

Boring equipment were cleaned prior to and between each exploration. The Strataprobe rods, stainless steel samplers, spoons, bowls, and other hand sampling equipment were brush-scrubbed using an Alconox detergent solution followed by successive rinses of tap and deionized water.

Attachments:

Figure A-1Key to Exploration LogsFigures A-2-through A-11Strataprobe Log P-100 through Strataprobe Log P-109

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Key to Exploration Logs

Sample Description

Classification of soils in this report is based on visual field and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates and should not be construed to imply field nor laboratory testing unless presented herein. Visual-manual classification methods of ASTM D 2488 were used as an identification guide.

Soil descriptions consist of the following: Density/consistency, moisture, color, minor constituents, MAJOR CONSTITUENT, additional remarks.

Hard

Density/Consistency

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance. Soil density/consistency in test pits is estimated based on visual observation and is presented parenthetically on the test pit logs. Approximate Standard Penetration Standard Penetration SILT or CLAY SAND or GRAVEL Resistance (N) in Blows/Foot Resistance (N) in Blows/Foot Strength in TSF Consistency Density 0 - 2 <0.125 0 - 4Very soft Very loose 0,125 - 0.25 2 - 4Loose 4 - 10Soft 4 - 8 0.25 - 0.5Medium dense 10 - 30Medium stiff 0.5 - 1.0 30 - 50Stiff 8 - 15Dense Very dense >50 Very stiff 15 - 301.0 - 2.0 >30 >2.0

Moisture

Little perceptible moisture Dry

Damp Some perceptible moisture, probably below optimum

Moist Probably near optimum moisture content

Much perceptible moisture, probably above optimum Wet

Legends

Sampling Test Symbols BORING SAMPLES \boxtimes Split Spoon Shelby Tube \square M Cuttings Π Core Run

* No Sample Recovery

- Ρ Tube Pushed, Not Driven TEST PIT SAMPLES
- \square Grab (Jar)
- \square Baa

 \square

Shelby Tube

Groundwater Observations Surface Seal **Bentonite** Groundwater Level on Date or ∇ STANDARD ATD at Time of Drilling (ATD) Well Screen Sand Pack A-1 Native Material -Groundwater Seepage (Test Pits) Ē

Minor Constituents

Minor Constituents	Estimated Percentage
Not identified in description	0 - 5
Slightly (clayey, silty, etc.)	5 - 12
Clayey, silty, sandy, gravelly	12 - 30
Very (clayey, silty, etc.)	30 - 50

Test Symbols Grain Size Classification GS CN Consolidation บบ Unconsolidated Undrained Triaxial CU Consolidated Undrained Triaxial CD Consolidated Drained Triaxial Unconfined Compression 'ου DS Direct Shear к Permeability Pocket ⁱenetrometer Approximate Compressive Strength in TSF PP TV Torvane Approximate Shear Strength in TSF CBR California Bearing Ratio MD Moisture Density Relationship AL Atterberg Limits Water Content in Percent Liquid Limit Notural Plastic Limit

- PID Photoionization Detector Reading
- CA Chemical Analysis
- DŤ In Situ Density Test



Strataprobe Boring Log P-100/P-100A



07/01



 Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

+HARTCROWSER 07/01 7606 Figure A-3

Strataprobe Boring Log P-102/P-102A



HARTCROWSER 7606 07/01 Figure A-4

- Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.
- specified. Level may vary with time.



HARTCROWSER 7606 07/01 Figure A-5



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HARTCROWSER 7606 07/01 Figure A-6

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes

may be gradual.

3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

STRATAPROBE 760600ST GPJ HC_CORP.GDT 8/20/01







1. Refer to Figure A-1 for explanation of descriptions and symbols.

Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER 7606 07/01 Figure A-9

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- Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes may be gradual.
 Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.





- 1. Refer to Figure A-1 for explanation of descriptions and symbols.
- Soil descriptions and stratum lines are interpretive and actual changes may be gradual.

3. Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.



HARTCROWSER 7606 07/01 Figure A-11

Refer to Figure A-1 for explanation of descriptions and symbols.
 Soil descriptions and stratum lines are interpretive and actual changes

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Groundwater level, if indicated, is at time of drilling (ATD) or for date specified. Level may vary with time.

APPENDIX B LABORATORY REPORTS ESN NORTHWEST

Hart Crowser 7606 August 17, 2001



Environmental

Services Network

July 18, 2001

Rob Roberts Hart Crowser 1910 Fairview Ave. E Seattle, WA 98102-3699

Dear Mr. Roberts:

Please find enclosed the analytical data report for the Western Steel Casting Project in Seattle, Washington. Soil and water samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended on July 10 & 11, 2001.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. Applicable detection limits and QA/QC data are included. An invoice for this work has been sent to your accounting department.

ESN Northwest appreciates the opportunity to have provided analytical services to Hart Crowser for this project. It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

Michael a Korser

Michael A. Korosec President

677 Woodland Square Lp. SE, Suite D 🖾 Lacey, Washington 98503 🖬 360.459.4670 🖬 FAX 360.459.3432 Web Site: www.ESN-USA.com

E-Mail: esnnn@aol.com

ESN Job Number:	S10709-2
Client:	HART CROWSER
Client Job Name:	WESTERN STEEL CASTING
Client Job Number:	7606

Analytical Results

NWTPH-Dx, mg/kg		MTH BLK	P100A-S2	P100A-S3	P101-S3	P102A-S2
Matrix	Soil	Šoil	Soil	Soil	Soil	Soil
Date extracted	Reporting	07/11/01	07/11/01	07/11/01	07/11/01	07/11/01
Date analyzed	Limits	07/11/01	07/11/01	07/11/01	07/11/01	07/11/01
				1	-	-
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	15,000	9,700	nd	860
Heavy oil	50	nd	nd	nd	nd	nd
Surrogate recoveries:				1		
Fluorobiphenyi		117%	C	C	98%	107%
o-Terphenyl		129%	С	110%	107%	102%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

na - not analyzed

C - coelution with sample peaks

M - matrix interference

J - estimated value

Results reported on dry-weight basis Acceptable Recovery limits: 65% TO 135%

ESN Job Number:	S10709-2
Client:	HART CROWSER
Client Job Name:	WESTERN STEEL CASTING
Client Job Number:	7606

Analytical Results		DUPL	RPD	1		
NWTPH-Dx, mg/kg		P102A-S2	P102A-S2	P102A-S3	P103-S2	P103-S3A
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	07/11/01	07/11/01	07/11/01	07/11/01	07/11/01
Date analyzed	Limits	07/11/01	07/11/01	07/11/01	07/11/01	07/11/01
Kerosene/Jet fue!	20	nd		nd	nd	nd
Diesel/Fuel oil	20	800	7%	2,000	5,000	11,000
Heavy oil	50	nd		nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl		107%		116%	С	С
o-Terphenyl		106%		99%	105%	С

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

na - not analyzed

C - coelution with sample peaks

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J - estimated value

Results reported on dry-weight basis

Acceptable Recovery limits: 65% TO 135%

ESN Job Number:	S10709-2
Client:	HART CROWSER
Client Job Name:	WESTERN STEEL CASTING
Client Job Number:	7606

Analytical Results					DUPL	
NWTPH-Dx, mg/kg		P103-S3B	P104-S2	P105-S3	P105-S3	P106-S2
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	07/11/01	07/11/01	07/11/01	07/11/01	07/11/01
Date analyzed	Limits	07/11/01	07/11/01	07/11/01	07/11/01	07/11/01
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	300
Heavy oil	. 50	nd	nd	nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl	*****	95%	95%	95%	102%	94%
o-Terphenyl		101%	103%	103%	107%	105%

1

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

na - not analyzed

C - coelution with sample peaks

M - matrix interference

J - estimated value

Results reported on dry-weight basis

Acceptable Recovery limits: 65% TO 135%

ESN Job Number:	S10709-2
Client:	HART CROWSER
Client Job Name:	WESTERN STEEL CASTING
Client Job Number:	7606

Analytical Results

NWTPH-Dx, mg/kg		P106-S3	P107-S2	P107-S3	P108-S2	P108-S3A
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	07/11/01	07/11/01	07/11/01	07/11/01	07/11/01
Date analyzed	Limits	07/11/01	07/11/01	07/11/01	07/11/01	07/11/01
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	71	nd	7,600	2,200
Heavy oil	50	nd	nd	nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl		96%	95%	98%	С	125%
o-Terphenyl		105%	105%	106%	С	106%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

na - not analyzed

C - coelution with sample peaks

M - matrix interference

J - estimated value

Results reported on dry-weight basis

Acceptable Recovery limits: 65% TO 135%

Acceptable RPD limit: 35%

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ESN Job Number:	S10709-2
Client:	HART CROWSER
Client Job Name:	WESTERN STEEL CASTING
Client Job Number:	7606

Analytical Results		DUPL	RPD		
NWTPH-Dx, mg/kg		P108-S3A	P108-S3A	P108-S3B	P109-S2
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	07/11/01	07/11/01	07/11/01	07/11/01
Date analyzed	Limits	07/11/01	07/11/01	07/11/01	07/11/01
Kerosene/Jet fuel	20	nd		nd	nd
Diesel/Fuel oil	20	2,200	0%	nd	nd
Heavy oil	50	nd		nd	nd
Surrogate recoveries:					
Fluorobiphenyl	*****	122%		100%	99%
o-Terphenyl		112%		109%	105%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

na - not analyzed

C - coelution with sample peaks

M - matrix interference

J - estimated value

Results reported on dry-weight basis Acceptable Recovery limits: 65% TO 135%

Acceptable RPD limit: 35%

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ESN Job Number:	S10709-2
Client:	HART CROWSER
Client Job Name:	WESTERN STEEL CASTING
Client Job Number:	7606

NWTPH-Dx, mg/l		MTH BLK	P104-S4	P106-S4	P108-S4	P108-S4
	30/-1					
Matrix	Water	Water	Water	Water	Water	Water
Date extracted	Reporting	07/10/01	07/10/01	07/10/01	07/10/01	07/10/01
Date analyzed	Limits	07/10/01	07/10/01	07/10/01	, 07/10/01	07/10/01
Kerosene/Jet fuel	0.20	nd	nd	nd	nd	nd
Diesel/Fuel oil	0.20	nd	nd	nd	1.0	1.7
Heavy oil	0.50	nd	nd	nd	nd	nd
Surrogate recoveries:						
Fluorobiphenyl		97%	95%	97%	101%	104%
o-Terphenyl		103%	105%	107%	110%	111%

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Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

na - not analyzed

C - coelution with sample peaks

M - matrix interference

J - estimated value

Acceptable Recovery limits: 65% TO 135%

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Sample Custody Record Samples Shipped to: ESN 79



Hart Crowser, Inc. 1910 Fairview Avenue East Seattle, Washington 98102-3699 Phone: 206-324-9530 FAX: 206-328-558<u>1</u>.

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