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INTERIM REMEDIAL ACTION COMPLETION REPORT



Property:

Hearthstone Property 6860 Woodlawn Avenue Northeast Seattle, Washington

Report Date: December 18, 2014

Prepared for:

The Hearthstone Retirement Living 6720 East Green Lake Way North Seattle, Washington

Interim Remedial Action Completion Report

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Hearthstone Property 6860 Woodlawn Avenue Northeast Seattle, Washington

Project No.: 0651-001-02

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December 18, 2014



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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
μg/L	micrograms per liter
μg/m³	micrograms per cubic meter
Agreed Order	Agreed Order No. DE7084
ARAR	applicable or relevant and appropriate requirement
bgs	below ground surface
CFR	Code of Federal Regulations
cis-1,2-DCE	cis-1,2-dichloroethene
СОС	chemical of concern
DPD	Department of Planning and Development
CVOC	chlorinated volatile organic compound
DNAPL	dense nonaqueous-phase liquid
Ecology	Washington State Department of Ecology
EPA	U.S. Environmental Protection Agency
Farallon	Farallon Consulting, LLC
former Dry Cleaner Building	former Sunshine Laundry and Dry Cleaning Company Dry Cleaner Building
GeoEngineers	GeoEngineers, Inc.
Hearthstone	The Hearthstone Retirement Living
Hearthstone Property	6860 Woodlawn Avenue Northeast in Seattle, Washington
IRACR	Interim Remedial Action Completion Report
IRAWP	Interim Remedial Action Work Plan
Latona ROW	Latona Avenue Northeast ROW
mg/kg	milligrams per kilogram

ACRONYMS AND ABBREVIATIONS (CONTINUED)

MTCA	Washington State Model Toxics Control Act
MUP	Master Use Permit
NWTPH	Northwest Total Petroleum Hydrocarbon
PCE	tetrachloroethene
Plastic Sales	Plastic Sales & Service
RCW	Revised Code of Washington
RI/FS Report	Remedial Investigation and Feasibility Study Report, prepared by Farallon Consulting, LLC and dated July 3, 2013
RI/FS	remedial investigation/feasibility study
Roosevelt Landfill	the Republic Services solid waste landfill in Roosevelt, Washington
ROW	right-of-way
SES	Sound Environmental Strategies Corporation
Site	Hearthstone Property and Plastic Sales & Service Site, as defined in Agreed Order No. DE7084
SoundEarth	SoundEarth Strategies, Inc.
Sunshine Cleaners	Sunshine Laundry and Dry Cleaning Company
TCE	trichloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
USCS	Unified Soil Classification System
UST	underground storage tank
WAC	Washington Administrative Code
Woodlawn ROW	Woodlawn Avenue Northeast right-of-way

1.0 INTRODUCTION

On behalf of The Hearthstone Retirement Living (Hearthstone), SoundEarth Strategies, Inc. (SoundEarth, formerly known as Sound Environmental Strategies Corporation [SES]) has prepared this Interim Remedial Action Completion Report (IRACR) for the interim remedial action conducted at 6860 Woodlawn Avenue Northeast in Seattle, Washington (the Hearthstone Property), as shown on Figure 1. The Hearthstone Property is part of the Plastic Sales & Service Site (the Site) as defined in Agreed Order No. DE7084 (Agreed Order), shown on Figure 1. Pursuant to Section VII of the Agreed Order, Hearthstone is lead for the interim action on the Hearthstone Property as described in the *Final Interim Remedial Action Work Plan, Hearthstone Property, 6860 Woodlawn Avenue Northeast, Seattle, Washington*, prepared by SoundEarth and dated April 6, 2011 (IRAWP; SES 2011). Plastic Sales & Service (Plastic Sales) is defined as lead for all other elements of completion of the remedial investigation/feasibility study (RI/FS) and the cleanup action plan under the Agreed Order. However, Hearthstone purchased the Plastic Sales Property in June 2014, and now owns the entire Site. The Agreed Order and the interim remedial action requirements discussed herein will be later incorporated into the terms of a Site Consent Decree under which Hearthstone will maintain lead responsibility.

The interim remedial action described in the IRAWP is a component of the proposed development project on the Hearthstone Property, King County Assessor Parcel No. 952810-4695 and Master Use Permit (MUP) #3006394. The interim remedial action remediates a portion of the Hearthstone Property that contained concentrations of tetrachloroethene (PCE) exceeding the preliminary cleanup levels as established in Section 3.3.1 of the IRAWP.

The IRACR includes a discussion of the Site and Hearthstone Property background, technical elements of the interim remedial action, components of the interim remedial action, and implementation and results of the interim remedial action.

1.1 PURPOSE

The purpose of the interim remedial action was to perform cleanup at the Hearthstone Property as a component of the permitted development proposal in order to reduce the threat to human health or the environment by eliminating or substantially reducing one or more pathways of exposure to PCE and other chemicals of concern (COCs). The interim remedial action was conducted in accordance with the requirements of the Washington State Model Toxics Control Act (MTCA), as established in Chapter 173-340-430 of the Washington Administrative Code (WAC 173-340-430), and in accordance with provisions of the Agreed Order, and has been integrated with MUP #3006394 issued by the City of Seattle Department of Planning and Development (DPD).

In accordance with WAC 173-340-360(2), the interim remedial action complies with cleanup standards, protects human health and the environment, complies with applicable state and federal laws, provides for compliance monitoring, and provides a permanent solution, to the maximum extent practicable. The interim remedial action completed for the Hearthstone Property consisted of excavation and disposal of PCE-contaminated soil.

1.2 ORGANIZATION

This IRACR is organized into the following sections:

- Section 2.0, Site Background. This section describes the features of the Hearthstone Property redevelopment and the historical and current land uses of the Site. This section also includes discussions of the geology and hydrology of the Site and the findings of previous environmental investigations performed at the Hearthstone Property by SoundEarth and others.
- Section 3.0, Technical Elements. This section identifies the technical elements for the interim remedial action at the Hearthstone Property, including the COCs, media of concern, cleanup standards, and regulatory framework.
- Section 4.0, Interim Remedial Action and Cleanup Objectives. This section describes the interim remedial action and the remedial objectives.
- Section 5.0, Contained-Out Determination. This section describes the disposal of contaminated soil at the Hearthstone Property under a contained-out determination.
- Section 6.0, Interim Remedial Action. This section summarizes the components of the interim remedial action, including shoring, dewatering, and excavation of contaminated soil. This section also describes the compliance monitoring for soil, groundwater, and water and chemical analysis for the media of concern.
- Section 7.0, Interim Remedial Action Results. This section describes results of the interim remedial action, including performance and/or confirmational soil, stockpile, groundwater, and wastewater samples. The section also includes a discussion of the usability of the analytical results to meet the interim remedial action objective.
- Section 8.0, Data Quality and Usability. This section describes the data validation conducted on the laboratory data obtained during the interim remedial action.
- Section 9.0, Conclusions. This section provides conclusions based on the results of the interim remedial action.
- Section 10.0, Limitations. This section presents SoundEarth's standard limitations associated with conducting the work reported herein and preparing this IRACR.
- Section 11.0, Bibliography. This section provides a list of the source materials used in preparing this document.

2.0 SITE BACKGROUND

This section provides a description and historical background of the Hearthstone Property, the Site, and the surrounding area, and a discussion of prior investigations conducted by SoundEarth and others. This section also includes discussions of the geology and hydrology of the Site.

2.1 SITE DESCRIPTION AND HISTORICAL LAND USE

The Site as defined in the Agreed Order includes the former Laundry Building located at 6850 Woodlawn Avenue Northeast (tax parcel #9528104695) and the former Dry Cleaner Building located at 6870 Woodlawn Avenue Northeast (tax parcels #9528104735 and #9528104725; Figure 1). A detailed discussion of the Site and historical land use is presented in the Revised Draft Remedial Investigation and Feasibility Study Report (RI/FS Report) prepared by Farallon Consulting, LLC (Farallon) and dated July 3, 2011 (Farallon 2013). A brief description of the Site and historical land use is presented below.

2.1.1 Plastic Sales & Service Property

Plastic Sales operates a plastic fabrication facility at 6870 Woodlawn Avenue Northeast (tax parcels #9528104735 and #9528104725) and formerly operated a similar facility at 6850 Woodlawn Avenue Northeast (tax parcel #9528104695) located directly to the west (Figures 1). The buildings located at 6850 Woodlawn Avenue Northeast and 6870 Woodlawn Avenue Northeast are the former Sunshine Laundry and Dry Cleaning Company (Sunshine Cleaners) and Dry Cleaner Building, respectively. Sunshine Cleaners owned and occupied the former Laundry Building starting in 1931. Sunshine Cleaners acquired the Dry Cleaner Building property in 1948 and constructed the Dry Cleaner Building on the property which was formerly occupied by a residential structure. Sunshine Cleaners operated a dry cleaner in the former Dry Cleaner Building from 1948 to 1977 (Agreed Order 2009).

In 1977, Mr. Bell and Sunshine Cleaners transferred their interest in the former Laundry Building property. Ruben and Patricia Rael acquired the former Laundry Building property in 1995 and transferred the property to Karkrie LLC in 2000. Karkrie LLC sold the Laundry Building property to the Hearthstone in 2005. Plastic Sales operated in the former Laundry Building at various times between 1977 and 2006 (Agreed Order 2009).

The former Dry Cleaner Building contained a heating oil underground storage tank (UST) of unknown capacity, two Stoddard solvent USTs with capacities of 1,500 and 2,000 gallons, and a PCE-containing aboveground storage tank with a capacity of 200 gallons (Farallon 2013). The USTs, which were located in Woodlawn Avenue Northeast adjacent to the north side of the Dry Cleaner Building, were reportedly abandoned in-place in 1958 when Sunshine Cleaners began using PCE for dry cleaning operations. The former dry cleaning equipment was installed in 1948, and used Stoddard solvent as the primary dry cleaning solvent from the late 1920s to late 1950s (Figure 1). Typical to the industry, operations transitioned to tetrachloroethylene (perchloroethylene, PCE) as the cleaning solvent during the 1960s and 1970s. Plastic Sales leased the former Dry Cleaner Building in 1977, and continues to operate on the Plastic Sales Property. Plastic Sales not operate as a dry cleaner; however, small quantities of other solvents have been used during its tenure at the Plastic Sales property (Agreed Order 2009).

2.1.2 <u>Hearthstone Property</u>

The northeastern portion of the Hearthstone Property is referenced in the Agreed Order as the former Laundry Building, which comprised an entire tax parcel (tax parcel #9528104695) and was located at 6860 Woodlawn Avenue Northeast. King County Assessor records indicate the former Laundry Building tax parcel is larger than the associated property boundary and includes the former Yasuko Property located in the northwest corner of the tax parcel, along with the south-adjacent parcel (tax parcel #9528104696). Former tenants on the Yasuko Property included Scott's Trophies, a restaurant, a dance studio, an antique shop, and a cabinetmaker (GeoEngineers 2004b).

Sunshine Cleaners originally owned and occupied the former Laundry Building starting in 1931. Sunshine Cleaners operated laundry, pressing, and packaging operations in the building; no dry cleaning operations occurred in the building (Farallon 2013). Plastic Sales operated in the former Laundry Building at various times between 1977 and 2006 (Agreed Order 2009). The Hearthstone Property covers 13,203 square feet (0.30 acres), was formerly occupied by two buildings, and is zoned NC3-40 for neighborhood/commercial use (Seattle DPD 2010). Currently, the Hearthstone Property is under construction for development. The Hearthstone Property is bounded to the east by an alleyway that separates it from the former Dry Cleaner Building, to the north by Woodlawn Avenue Northeast, to the west by Latona Avenue Northeast, and to the south by a single-family residence (Figure 1). In October 2008, the City of Seattle approved a MUP for Assessor Parcel No. 652810-4695 located at the Hearthstone Property. The MUP was issued for construction of a four-story building containing 3,746 square feet of retail at ground level, with 28 residential units above, and parking for 32 vehicles to be provided below grade.

2.2 PHYSICAL SETTING

Topographically, the Site is relatively flat with a slight slope to the northeast toward the former Ravenna Creek. The Site is situated approximately 150 feet above mean sea level (Farallon 2013). The nearest surface water body is Green Lake, located approximately 1,000 feet to the west.

Based on field observations during a supplemental subsurface investigation, the upper 15 feet of soils at the Hearthstone Property generally range from silt to silty sand with trace amounts of gravel (SES 2008). Similar subsurface conditions were documented during previous investigations conducted by others at a maximum depth of 20 feet below ground surface (bgs) at the Site (GeoEngineers 2004a, Farallon 2013). Underlying the upper silt and silty sand unit is a sand and gravel unit that ranges in depth from approximately 20 to 70 feet bgs (Farallon 2013). A silt and silty sand unit has been encountered beneath the sand and gravel unit in the deepest soil borings advanced at the Site; the maximum depth explored at the Site is approximately 80 feet bgs.

A shallow, unconfined water-bearing zone is present beneath the Site from approximately 6 to 20 feet bgs and is designated as the Shallow Zone groundwater (Farallon 2013). The depth to groundwater in the Shallow Zone generally ranges from 4 to 8 feet below the top of well casings; seasonal fluctuations in groundwater elevations range from approximately 2 to 5 feet. Based on groundwater elevations measured in May 2010, at groundwater monitoring wells located at the Site, the groundwater flow direction in the Shallow Zone was to the north with a gradient of 0.05 feet per foot (Figure 2). The Shallow Zone groundwater is underlain by a semiconfined to confined groundwater-bearing zone designated as the Deep Zone groundwater. The Deep Zone groundwater ranges in depth from 5 to 9 feet below the top of well casings. Based on depth-to-groundwater measurements collected in May 2010, the direction of groundwater flow in the Deep Zone was to the northeast with a gradient of 0.05 feet per foot (Farallon 2013).

2.3 PREVIOUS INVESTIGATONS

This section presents the results from previous investigations conducted at the Site by SoundEarth and others, with an emphasis on results from investigations conducted at the Hearthstone Property and in the rights-of-ways (ROWs) adjacent to the Hearthstone Property. Figure 2 shows the locations of borings advanced at the Site. Tables 1 and 2 and Figures 3 and 4, respectively, present analytical results for soil and groundwater samples collected at the Site.

2.3.1 GeoEngineers, Inc. (2002 through 2004)

GeoEngineers, Inc. (GeoEngineers) conducted subsurface investigations at the Site in 2002 and 2003 that included advancing direct-push borings GP-1 through GP-5, installing monitoring wells

MW-1 through MW-5, and advancing direct-push borings GP-6 and GP-7 proximate to the former Dry Cleaner Building (Figure 2). In 2004, GeoEngineers advanced direct-push borings GP-8 through GP-13 proximate to the former Laundry Building and former Yasuko Property and installed monitoring well MW06 (Figure 2). The borings were advanced to depths ranging from 20 to 50 feet bgs, and monitoring wells MW-1 through MW-6 were installed at depths ranging from 16 to 20 feet bgs. The boring for monitoring well MW-1 (Farallon 2013).

Soil, reconnaissance groundwater, and groundwater samples collected from borings and monitoring wells were analyzed for chlorinated volatile organic compounds (CVOC) by U. S. Environmental Protection Agency (EPA) Method 8260B; gasoline-range petroleum hydrocarbons by Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Gx; diesel- and oil-range petroleum hydrocarbons by Method NWTPH-Dx; and/or metals by EPA Method 6020.

A detailed discussion of analytical results for the Site is presented in the GeoEngineers Phase II Report (GeoEngineers 2004a). Analytical results for soil and reconnaissance groundwater samples collected at the Hearthstone Property by GeoEngineers are summarized below and presented in Tables 1 and 2, respectively:

- PCE was detected in soil samples collected at depths from 6 to 8 feet bgs in boring GP-11, advanced on the north side of Laundry Building (Figure 3). PCE concentrations in the soil samples exceeded the MTCA Method A cleanup level.
- PCE was detected in reconnaissance groundwater samples collected from borings GP-10 and GP-11 advanced on the north side of the former Laundry Building and east side of the former Laundry Building, respectively (Figure 4). PCE concentrations in the reconnaissance groundwater samples PCE exceeded the MTCA Method A cleanup level.
- PCE and trichloroethene (TCE) were detected in the reconnaissance groundwater sample collected from direct-push boring GP-6 and the groundwater sample collected from monitoring well MW-5 located in the Dry Cleaner Building and in the alley between the former Laundry Building and the former Dry Cleaner Building, respectively, at concentrations that exceeded applicable MTCA Method A cleanup levels (Figure 4).
- Concentrations of all remaining analytes for soil and reconnaissance groundwater samples collected at the Hearthstone Property were not reported above laboratory reporting limits and/or were below applicable MTCA Method A and B cleanup levels (Farallon 2013).

2.3.2 Farallon Consulting, LLC (2004 through 2007)

Farallon conducted a subsurface investigation at the Site in 2004 and a remedial investigation in 2006 and 2007 (Farallon 2013). The 2004 investigation included advancing and sampling soil and reconnaissance groundwater from direct-push borings SB-1 through SB-10 at and downgradient of the former Dry Cleaner Building to depths of up to 20 feet bgs and collecting soil and/or reconnaissance groundwater samples from each boring (Figures 2, 3, and 4). In 2006 and 2007, Farallon conducted a remedial investigation at the Site that included advancing direct-push borings SB-11 through SB-13 to depths of 75 feet bgs downgradient of the Site; advancing direct-push borings SB-15 through SB-19 inside the former Laundry Building to depths up to 20 feet bgs; installing monitoring wells MW-11 through MW-14 and MW-18 at the Site in the Deep

Zone groundwater; and installing monitoring wells MW-15 through MW-17 in Shallow Zone groundwater at the Site (Farallon 2013). Soil borings SB-12 and SB-13 are located immediately north of the property located at 6869 Woodlawn Avenue Northeast. Borings SB-11 and monitoring well MW-12 are located immediately north of 6857 Woodlawn Avenue Northeast (Figure 2). Soil, reconnaissance groundwater, and groundwater samples collected from borings and monitoring wells were analyzed for CVOCs by EPA Method 8260B.

Analytical results for soil and reconnaissance groundwater samples collected at the Hearthstone Property in the Woodlawn Avenue Northeast ROW (Woodlawn ROW) by Farallon are summarized below (Tables 1 and 2):

- PCE was detected in a soil sample collected at depth of 5 feet bgs from boring SB-15 advanced at the former Laundry Building. The concentration of PCE exceeded the MTCA Method A cleanup level (Figure 3).
- PCE was detected in a soil sample collected at a depth of 6 feet bgs from boring SB-16 advanced at the former Laundry Building. The concentration of PCE exceeded the MTCA Method A cleanup level (Figure 3).
- PCE and TCE were detected in a groundwater sample collected from monitoring well MW-5 located in the alley between the former Laundry Building and the former Dry Cleaner Building at concentrations that exceeded applicable MTCA Method A cleanup levels (Figure 4).
- PCE and TCE were detected in reconnaissance groundwater samples collected from boring SB-15 advanced in the former Laundry Building at concentrations that exceeded the applicable MTCA Method A cleanup levels (Figure 4).
- PCE was detected at a concentration that exceeded the applicable MTCA Method A cleanup levels in a reconnaissance groundwater sample collected from boring SB-18 advanced at the former Laundry Building (Figure 4).
- Concentrations of remaining analytes in soil and reconnaissance groundwater, and groundwater samples were not reported above laboratory reporting limits and/or were below applicable MTCA Method A and B cleanup levels.

2.3.3 Farallon Consulting, LLC (2008)

In November 2008, Farallon conducted a supplemental remedial investigation at the Site. The investigation included installing Deep Zone groundwater monitoring well MW-22 on the north side of the former Laundry Building in the Woodlawn ROW (Figure 3). Soil samples were collected at depths of 6, 10.5, 15, 25, and 45 feet bgs from the boring for MW-22. Soil samples were analyzed for CVOCs by EPA Method 8260B. Analytical results are summarized below (Table 1):

- The concentration of PCE in soil sample collected at a depth of 6 feet bgs exceeded the MTCA Method A cleanup level (Figure 3).
- PCE was not detected in soil samples collected at 10.5 15, 25, 45 feet bgs at concentrations above the MTCA Method A and/or at concentrations that exceeded the laboratory reporting limits (Figure 3).

 Concentrations of all remaining CVOCs were not detected above the MTCA Method A and B cleanup levels or were not reported at concentrations above the laboratory reporting limits (Figure 3).

2.3.4 Sound Environmental Strategies Corporation (2008)

SoundEarth conducted a subsurface investigation in 2008 that included advancement of directpush borings P01 through P10 inside the former Laundry Building to depths ranging from 4 to 15 feet bgs and collecting soil samples from nine of these borings (Figure 2). Soil samples collected from the borings were analyzed for CVOCs by EPA Method 8260B.

A detailed discussion of analytical results from this investigation is presented in the Additional Subsurface Soils Investigation, prepared by SoundEarth (SES 2008). Analytical results for soil samples collected by SoundEarth at the Hearthstone Property are summarized below and presented on Figure 3 and in Table 1:

- PCE was detected in soil samples collected at depths of 5 to 8 feet bgs in borings P01, P02, and P03. The detected PCE concentrations exceeded the MTCA Method A cleanup level.
- PCE was detected in a soil sample collected at a depth of 12 feet bgs in boring P04. The detected PCE concentration exceeded the MTCA Method A cleanup level.
- PCE was detected in four soil samples collected at depths ranging from 2 to 10 feet bgs in boring P05. The detected PCE concentrations exceeded the MTCA Method A cleanup level.
- PCE was detected in a soil sample collected at a depth of 4 feet bgs in boring P06. The detected PCE concentration exceeded the MTCA Method A cleanup level.
- PCE was not detected above laboratory reporting limits in soil samples collected at depths of 5 to 13 feet bgs in borings P07, P09, and P10.
- Concentrations of all remaining CVOCs in soil samples were not detected above laboratory reporting limits.

2.3.5 Sound Environmental Strategies Corporation (March 2009)

SoundEarth conducted a subsurface investigation at the Hearthstone Property that included collecting soil samples beneath drain lines, concrete slabs, and sumps removed in conjunction with the demolition of the former Laundry Building in March of 2009 (Figure 5, Table 1). In addition, groundwater samples were collected from monitoring well MW-24, located in the Woodlawn ROW (Figures 4, Table 2). The purpose of the sampling event was to determine whether PCE was present in the soil beneath the drain lines, concrete slabs, and sumps, and to gather additional groundwater quality data. Soil and groundwater samples were analyzed for CVOCs by EPA Method 8260B (SES 2011).

Nine soil samples were collected at depths ranging from 2 to 6 feet bgs using hand tools. Soil sample locations are shown on Figure 5 and are described below:

Drain 1—Start@ 2'. The sample was collected at the start and below the invert of a 4inch-diameter pipe at a depth of 2 feet. The pipe was not corroded and no odors were observed. Soil beneath the pipe consisted of loose brown silty sand with fine to medium cobbles (Figure 5).

- Drain 1—Midpoint @ 2'. The sample was collected at the midpoint and below the invert of a 4-inch-diameter pipe at a depth of 2 feet. The pipe was not corroded and no odors were observed. Soil beneath the pipe consisted of loose brown silty sand with fine to medium cobbles (Figure 5).
- Drain 1—Endpoint @ 2'. The sample was collected at the endpoint and beneath the invert of a 4-inch-diameter pipe at a depth of 2 feet. The pipe was not corroded and no odors were present. Soil beneath the pipe consisted of loose brown silty sand with fine to medium cobbles (Figure 5).
- Drain 2—Midpoint @ 2'. The sample was collected at the midpoint and beneath the invert of a 4-inch-diameter pipe at a depth of 2 feet. The pipe was not corroded and no odors were present. Soil beneath the pipe consisted of loose brown silty sand with fine to medium cobbles (Figure 5).
- Slab2 @ 5'. The sample was collected beneath a concrete slab at a depth of 2 feet. The pipe was not corroded and no odors were present. Soil beneath the pipe consisted of loose brown silty sand with fine to medium cobbles (Figure 5).
- Sump1 @ 5'. The sample was collected beneath the sump at a depth of 5 feet. The pipe was not corroded and no odors were present. Soil beneath the pipe consisted of loose brown silty sand with gray clay (Figure 5).
- Sump2 @ 5'. The sample was collected beneath the sump at a depth of 5 feet. No odors were present in the soil. Soil beneath the pipe consisted of loose brown silty sand with gray clay (Figure 5).
- Sump3 @ 6'. The sample was collected beneath the sump at a depth of 6 feet. No odors were present in the soil. Soil beneath the pipe consisted of loose brown silty sand with gray clay (Figure 5).
- Alleyway Drain @ 3.5'. The sample was collected below the invert of a 4-inch-diameter pipe at a depth of 3.5 feet. The pipe was not corroded and no odors were present. Soil beneath the pipe consisted of loose brown silty sand with fine to medium cobbles (Figure 5).

Soil samples did not contain concentrations of CVOCs above laboratory reporting limits. Analytical results are presented on Figure 5 and in Table 1.

The concentration of PCE in the groundwater sample collected from monitoring well MW-24 exceeded the MTCA Method A cleanup level (Figure 4; Table 2). Concentrations of remaining analytes in the groundwater samples collected from monitoring well MW-24 were below the applicable MTCA cleanup levels or laboratory reporting limits.

2.3.6 <u>Sound Environmental Strategies Corporation (September 2009)</u>

In September 2009, SoundEarth conducted a supplemental subsurface investigation on the Hearthstone Property that included advancement of hollow-stem auger borings P11 through P17 to depths ranging from 20 to 21 feet bgs (SES 2011). Borings P11 through P15 were advanced on the Hearthstone Property and P15 through P17 were advanced on the former

Yasuko Property (Figure 2). Soil samples were collected at various depths throughout the soil column. Sample selection was based on field observation and field screening using a hand-held gas analyzer equipped with photoionization detector. Soil samples were also screened for the presence or absence of dense nonaqueous-phase liquid (DNAPL) using an OilScreenSoil (Indigo Blue) field screening test kit, which gives immediate qualitative results with regard to the detection of actual DNAPL in soil and water.

The soil borings were converted into temporary monitoring wells. The temporary wells were screened form 8 to 18 feet bgs, and a sand filter pack was placed between the well screen and the formation at depths of 7 to 18 feet bgs. The depth-to-groundwater in the temporary wells ranged from approximately 9 to 16 feet bgs. Prior to collecting reconnaissance groundwater samples, one casing volume was purged from each temporary well using a peristaltic pump. Reconnaissance groundwater samples were collected under low-flow conditions. The pump intake for each monitoring well was placed in the middle of the screened interval.

Soil and reconnaissance groundwater samples from each boring were analyzed for CVOCs by EPA Method 8260B. Analytical results for soil and reconnaissance groundwater samples area summarized below:

- PCE and TCE were detected at concentrations exceeding the MTCA Method A cleanup level in boring P11 at depths of 7.5 and 12 feet bgs. Boring P11 was advanced in the alley between the former Laundry Building and Plastic Sales (Figure 3; Table 1).
- PCE was detected at a concentration exceeding the MTCA Method A cleanup level in P12 at a depth of 9 feet bgs. Boring P12 was advanced proximate to the east boundary of the Hearthstone Property (Figure 3; Table 1).
- PCE was detected at a concentration exceeding the MTCA Method A cleanup level at boring P14 at depths of 10 and 14 feet bgs. Boring P14 was advanced proximate to the north boundary of the Hearthstone Property (Figure 3; Table 1).
- PCE was detected at a concentration exceeding the MTCA Method A cleanup level at boring P17 at a depth of 13 feet bgs. Boring P17 was advanced on the former Yasuko Property (Figure 3; Table 1).
- PCE and TCE were detected at concentrations exceeding the MTCA Method A cleanup level in the reconnaissance groundwater samples collected from temporary wells P11 and P14 (Figure 4; Table 2).
- PCE was detected at concentrations exceeding the MTCA Method A cleanup level in the reconnaissance groundwater samples collected from temporary wells P13, P15, and P17 (Figure 4; Table 2).
- Concentrations of all remaining analytes in soil and reconnaissance groundwater samples were below the applicable MTCA cleanup levels or laboratory reporting limits (Tables 1 and 2).
- DNAPL was not identified in soil and reconnaissance groundwater samples.

2.3.7 Farallon Consulting, LLC (2011)

Between March and May 2010, Farallon conducted a supplemental remedial investigation at the Site. The investigation included installing monitoring wells TMW-1 through TMW-3 on the

Hearthstone Property, advancing direct-push borings SB-20 through SB-25, and installing monitoring wells MW-25 and MW-26 in the Woodlawn ROW (Figure 2). Soil, reconnaissance groundwater, and groundwater samples collected from borings and monitoring wells were analyzed for CVOCs by EPA Method 8260B. Analytical results for soil, reconnaissance groundwater, and groundwater samples collected at the Hearthstone Property in the Woodlawn ROW are summarized below:

- A PCE concentration in the soil sample collected at a depth of 12.5 feet bgs from boring TMW-3 exceeded the MTCA Method A cleanup level (Figure 3; Table 1). The boring was advanced in northwest corner of the former Laundry Building.
- PCE concentrations in the soil samples collected at depths of 11 and 14 feet bgs at boring SB-22 exceeded the MTCA Method A cleanup level (Figure 3; Table 1). The boring was advanced within the Woodlawn ROW north of the Hearthstone Property.
- Concentrations of PCE in soil samples collected at depths of 2.5 and 13.5 feet bgs from boring SB-23 exceeded the MTCA Method A cleanup level (Figure 3; Table 1). The boring was advanced adjacent to the sidewalk in the Woodlawn ROW north of the Hearthstone Property.
- PCE concentrations in the groundwater samples collected from monitoring wells TMW-1 through TMW-3 exceeded the MTCA Method A cleanup level (Figure 4; Table 2). The monitoring wells were installed proximate to the west wall of the former Laundry Building.
- PCE concentrations in reconnaissance groundwater samples collected from borings SB-22 and SB-23 exceeded the MTCA Method A cleanup level (Figure 4; Table 2).
- A concentration of PCE in the groundwater sample collected from monitoring well MW-25 exceeded the MTCA Method A cleanup level (Figure 4; Table 2). The monitoring well was installed proximate to boring SB-22.
- Concentrations of all remaining analytes in soil, reconnaissance groundwater, and groundwater samples were below the applicable MTCA cleanup levels or the laboratory reporting limits (Tables 1 and 2).

Farallon collected additional groundwater samples from select Shallow and Deep Zone groundwater monitoring wells as part of a comprehensive groundwater monitoring and sampling event at the Site. The results for Shallow Zone groundwater samples are shown on Figure 4 and in Table 2.

Farallon conducted a simplified Terrestrial Ecological Evaluation (TEE) in accordance with Table 749-1 of WAC 173-340-900 and the protocols established in WAC 173-340-7492 to assess the potential risk associated with the presence of COCs at the Site (Farallon 2011). The Site qualified for a TEE exclusion based on land use at the Site and surrounding area making substantial wildlife exposure unlikely (WAC 173-340-7492(2)(a)(ii)).

2.3.8 Farallon Consulting, LLC (2013)

Farallon completed two additional subsurface investigation phases in 2011 and 2012, which included advancing borings SB-26 though SB-39 on the Plastic Sales Property and installing monitoring well MW-27 at the intersection of Woodlawn Avenue Northeast and 4th Avenue

Northeast (Farallon 2013). Soil samples were not analyzed from boring SB-28. Reconnaissance groundwater samples were analyzed from borings SB-26, SB-27, SB-29, SB-30, SB-32, and SB-35. A groundwater sample was collected from monitoring well MW-27. Soil, reconnaissance groundwater, and monitoring well samples collected from borings and monitoring well were analyzed for CVOCs by EPA Method 8260B. Analytical results are summarized below:

- PCE concentrations exceeding the MTCA Method A cleanup level were detected in borings SB-26, SB-27, and SB-29 through SB-39 at depths ranging from 1.3 feet bgs to 12 feet bgs (Table 1).
- TCE concentrations exceeding the MTCA Method A cleanup level were detected in borings SB-27 and SB-34 at depths ranging from 2.5 feet bgs to 12 feet bgs (Table 1).
- Concentrations of cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were below the applicable MTCA cleanup levels or the laboratory reporting limits for the analyzed soil samples (Table 1).
- Concentrations of CVOCs were not detected above the laboratory reporting limits in the soil sample analyzed from boring MW-27 (Table 1).
- PCE concentrations exceeding the MTCA Method A cleanup level were detected in the six analyzed reconnaissance groundwater samples collected from borings SB-26, SB-27, SB-29, SB-30, SB-32, and SB-35 (Table 2).
- TCE concentrations exceeding the MTCA Method A cleanup level were detected in the reconnaissance groundwater samples collected from borings SB-26 and SB-27 (Table 2).
- Concentrations of cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were below the applicable MTCA cleanup levels or the laboratory reporting limits for the analyzed reconnaissance groundwater samples (Table 2).
- The groundwater sample analyzed from monitoring well MW-27 in July 2011, did not detect concentrations of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, or vinyl chloride exceeding the applicable MTCA cleanup levels (Table 2).

3.0 TECHNICAL ELEMENTS

The findings of previous investigations conducted by SoundEarth and others were used to identify the technical elements for the interim remedial action at the Hearthstone Property. This section summarizes the COCs, media of concern, cleanup standards, and regulatory framework for the interim remedial action for the Hearthstone Property.

3.1 CHEMICALS OF CONCERN

Analytical results from subsurface investigations performed by SoundEarth and others have identified the COCs at the Hearthstone Property. The primary COC identified for the Hearthstone Property is PCE. Concentrations of PCE at the Hearthstone Property exceed the preliminary cleanup level in soil as defined in Section 3.3.1 of the IRAWP. Other COCs include the degradation products of PCE: TCE, cis-1,2-Dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride.

3.2 MEDIA OF CONCERN

The media of concern for the Hearthstone Property are soil, groundwater, and vapor. The interim remedial action has addressed contaminated soil and vapor within the boundary of the Hearthstone Property (Figure 3). Cleanup of contaminated soil and engineering controls associated with the development of the Hearthstone Property has eliminated vapor as medium of concern.

3.3 PRELIMINARYCLEANUP STANDARDS

In accordance with WAC 173-340-700, the cleanup standards for the Hearthstone Property consist of establishing preliminary cleanup levels for COCs, the preliminary points of compliance where the preliminary cleanup levels must be met, and other regulatory requirements that apply to the Hearthstone Property because of the type of action and location of the Hearthstone Property within the Site.

3.3.1 Preliminary Cleanup Levels

The preliminary cleanup levels are the concentrations of COCs that have been met for each medium of concern at the preliminary points of compliance established for the Hearthstone Property. For the interim remedial action, soil, groundwater, and vapor were the media of concern. In addition, vapor as a medium of concern was further mitigated by installation of a vapor barrier and passive ventilation system beneath the floor slab of the underground parking garage at the Hearthstone Property. These engineering controls are preventative measures for managing potential vapor containing PCE and its degradation byproducts. These measures provide long-term protection of the indoor air quality within the development building. Preliminary Cleanup levels for soil, groundwater, and vapor are presented below.

3.3.1.1 Preliminary Cleanup Level for Soil

The approved development permits for the Hearthstone Property include one level of underground parking. The interim remedial action includes excavation of soil within the Hearthstone Property, including soil containing concentrations of PCE exceeding the preliminary cleanup level (0.05 milligrams per kilogram [mg/kg]). The preliminary cleanup level for PCE is equivalent to the MTCA Method A cleanup level for the protection of groundwater. Although PCE is the primary COC in soil for the Hearthstone Property, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were potentially present in the soil at concentrations that exceed applicable preliminary cleanup levels. The preliminary cleanup level for TCE is based on the MTCA Method A cleanup level for the protection of groundwater quality. The preliminary cleanup levels for cis-1,2-DCE and trans-1,2-DCE are equivalent to MTCA Method B cleanup levels, which are protective of groundwater quality and at concentrations which are estimated to result in no acute or chronic non-carcinogenic toxic effects to human health, in accordance with WAC 173-340-740(3)(b)(iii)(B). The preliminary cleanup level for vinyl chloride is equivalent to the MTCA Method B cleanup level which is protective of groundwater quality and is a concentration for which the upper bound on the estimated cancer risk is less than or equal to one in one million, in accordance with WAC 173-340-740(3)(b)(iii)(B). The preliminary soil cleanup levels for PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride are as follows:

- PCE—0.05 mg/kg
- TCE—0.03 mg/kg

- cis-1,2-DCE—160 mg/kg
- trans-1,2-DCE—1,600 mg/kg
- vinyl chloride—0.67 mg/kg

3.3.1.2 Preliminary Cleanup Level for Groundwater

PCE was the primary COC for groundwater at the Hearthstone Property. TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were potentially present in the groundwater at concentrations that exceed applicable preliminary cleanup levels. The preliminary cleanup levels for PCE and TCE are equivalent to the MTCA Method A cleanup levels which are based on applicable state and federal law in accordance with WAC 246-290-310 and 40 Code of Federal Regulations (CFR) 141.61, respectively. The preliminary cleanup levels for cis-1,2-DCE and trans-1,2-DCE are equivalent to MTCA Method B cleanup levels, which are protective of groundwater quality and at concentrations estimated to result in no acute or chronic non-carcinogenic toxic effects to human health, in accordance with WAC 173-340-720(3)(b)(iii). The preliminary cleanup level for vinyl chloride is equivalent to the MTCA Method A cleanup level, which is protective of groundwater quality and at a concentration for which the upper bound on the estimated cancer risk is less than or equal to one in one hundred thousand in accordance with WAC 246-290-310 and 40 CFR 141.61. The preliminary groundwater cleanup levels for PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride are as follows:

- PCE—5 micrograms per liter (μg/L)
- TCE —5 μg/L
- cis-1,2-DCE—16 μg/L
- trans-1,2-DCE—160 μg/L
- vinyl chloride—0.2 μg/L

3.3.1.3 Preliminary Cleanup Level for Vapor

The interim remedial action included using the cleanup of soil containing PCE and its degradation byproducts and engineering controls to eliminate vapor as a medium of concern. PCE was the primary COC for vapor at the Hearthstone Property. TCE, trans-1,2-DCE, and vinyl chloride may also have been present in vapor at concentrations that exceed applicable preliminary cleanup levels. Preliminary Cleanup levels for PCE, TCE, and vinyl chloride are based on the MTCA Method B cleanup levels. The preliminary cleanup level for trans-1,2-DCE is based on the MTCA Method B cleanup level, a concentration which is estimated to result in no acute or chronic non-carcinogenic toxic effects to human health. Cis-1,2-DCE does not have an established MTCA Method B cleanup level. The preliminary vapor cleanup levels in micrograms per cubic meter (μ g/m³) for PCE, TCE, trans-1,2-DCE, and vinyl chloride are as follows:

- PCE—9.62 μg/m³
- TCE—0.37 μg/m³
- cis-1,2-DCE—Not established
- trans-1,2-DCE—27.4 μg/m³

vinyl chloride—0.28 μg/m³

3.3.2 Points of Compliance

The points of compliance are the locations at which preliminary cleanup levels for the COCs in the media of concern must be attained. The points of compliance for the Hearthstone Property were established in accordance with WAC 173-340-740(6) for soil, WAC 173-340-720(8) for groundwater, and WAC 173-340-750(6) for ambient air. The points of compliance for the media of concern are as follows:

- The point of compliance for soil is based on the protection of groundwater and is established throughout the area of the interim remedial action.
- The point of compliance for groundwater is the point or points where preliminary groundwater cleanup levels must be met within the area of interim remedial action and is established throughout the area of interim action from the uppermost level of the groundwater, extending vertically to the lowermost depth which could potentially be affected by the Hearthstone Property.
- The point of compliance for ambient air is throughout the area of interim remedial action.

3.3.3 Applicable or Relevant and Appropriate Requirements

Applicable or relevant and appropriate requirements (ARAR) were identified for the interim remedial action being performed at the Hearthstone Property. Washington State Department of Ecology (Ecology) is the lead regulatory agency for compliance, and the interim remedial action for the Hearthstone Property was conducted under the Agreed Order. The interim remedial action was performed in accordance with applicable federal, state, and local requirements. The ARARs related to the interim remedial action include the following:

- Water Quality Standards for Ground Waters of the State of Washington, WAC 173-200
- The Washington State Hazardous Waste Management Act, Title 70, Chapter 70.105 of the Revised Code of Washington (RCW 70.105)
- The Washington State Dangerous Waste Regulations, WAC 173-303
- The Washington State Environmental Policy Act, RCW 43.21c
- Controls for New Sources of Toxic Air Pollutants, WAC 173-460
- General Regulations for Air Pollution Sources, WAC 173-400
- Occupational Safety and Health Act, Title 29 CFR Part 1910
- Washington State Safety Standards for Construction Work, WAC 296-155
- Washington State Solid Waste Management Laws and Regulations, RCW 70.95, WAC 173-351, and WAC 173-304
- Washington State Accreditation of Environmental Laboratories, WAC 173-50
- Washington State General Occupational Health Standards, WAC 296-62 Part I-1

4.0 INTERIM REMEDIAL ACTION AND CLEANUP OBJECTIVES

The interim remedial action completed at the Hearthstone Property included excavation and disposal of soil containing concentrations of the COCs above applicable preliminary cleanup levels. The interim remedial action also included installation of a temporary dewatering system to control groundwater during the soil excavation, and installation of a vapor barrier with a passive vapor ventilation system to be incorporated into the permanent floor slab design.

The interim remedial action at the Hearthstone Property met the criteria presented in WAC 173-340-430 which includes:

- Reducing the threat to human health or the environment by eliminating or substantially reducing one or more pathways for exposure to hazardous substances at the Hearthstone Property.
- Achieving cleanup standards for a portion of the Site.
- Not excluding other reasonable alternative cleanup actions for the Site.
- Allowing for public participation in a manner consistent with WAC 173-340-600.
- Preparing the IRAWP for submittal to Ecology for review and approval detailing the scope of work to be performed under the IRAWP.
- Conducting the interim remedial action in accordance with WAC 173-430-400(6).

The specific objectives of the interim remedial action were to remove PCE-contaminated soil, prevent vapor intrusion, and control potentially contaminated groundwater. These objectives were developed in conjunction with the planned redevelopment of the Hearthstone Property. The components of the interim remedial action included the following:

- Removing soil that contains COCs (primarily PCE) with concentrations above preliminary applicable cleanup levels within the Hearthstone Property (Figure 6).
- Installing a temporary dewatering system to control groundwater during the soil excavation.
- Installing a vapor barrier and passive vapor ventilation system incorporated in the floor slab construction of the redevelopment.
- Complying with the terms and conditions of the Agreed Order as it pertains to the interim remedial action at the Hearthstone Property.

The interim remedial action at the Hearthstone Property addressed the cleanup of the soil at the Site. The interim remedial action was necessary to reduce the threat to human health and the environment associated with the proposed development project by eliminating or substantially reducing one or more exposure pathways (i.e., direct contact, soil to groundwater, and inhalation pathways). The interim remedial action at the Hearthstone Property achieved preliminary cleanup levels for a portion of the Site.

5.0 CONTAINED-OUT DETERMINATION

Ecology issued a contained-out determination for the Property on September 17, 2010. Under the September 2010, contained-out determination approximately 4,000 tons of PCE-contaminated soil were excavated from the northeast corner of the Property and disposed of at the Republic Services solid waste landfill in Roosevelt, Washington (Roosevelt Landfill). In October 2011, Hearthstone requested a contained-out determination for an additional 1,500 tons of PCE-contaminated soil. Ecology issued a contained-out determination for an additional 1,500 tons in November 2011.

6.0 INTERIM REMEDIAL ACTION

The interim remedial action at the Hearthstone Property was conducted in general accordance with the IRAWP. The interim remedial action was conducted in two phases. Phases I and II were conducted between July and September 2011, and May and July 2012, respectively. Between July and September 2011, 4,106 tons of PCE-contaminated soil were excavated from the Hearthstone Property and disposed of at the Roosevelt Landfill. A total of 541 tons of clean soil were disposed of at Wm. Dickson Co. landfill in Tacoma, Washington. Clean soil was identified during the interim remedial action as soil containing concentrations of PCE less than the laboratory reporting limit, stockpile soil sample results, and analytical results from subsurface investigations conducted at the Hearthstone Property by SoundEarth and others prior to implementation of the interim remedial action. Disposal tickets for clean and PCE-contaminated soil are presented in Appendix A.

The interim remedial action included excavating soil containing concentrations of PCE above the laboratory reporting limit (0.025 mg/kg) from the northeast corner of the Hearthstone Property to the maximum extent practical, with the exception of the Woodlawn ROW which is further discussed below. The maximum extent practical was based on the design depth for the development and shoring design constraints. The design depth development and the shoring system were designed for an excavation of 15 feet bgs. Removing soil greater than 15 feet bgs was not feasible according to GeoEngineers, the geotechnical consultant for the development. In the August 12, 2011, letter to Hearthstone, GeoEngineers stated that the shoring system must not be subjected to additional loads of excavation beyond the design depth. The GeoEngineers letter is presented in Appendix B.

Soil containing concentrations of PCE above the preliminary cleanup level within the Woodlawn ROW was not excavated during the interim remedial action. SoundEarth discussed the Woodlawn ROW with Ecology in a conference call on June 2, 2014. SoundEarth requested that soil with low concentrations of PCE within the Woodlawn ROW be left in place. The request was made because Hearthstone purchased the Plastic Sales Property in June 2014, and because the residual PCE concentrations in soil present at Plastic Sales and in the Woodlawn ROW will be addressed as part of the final cleanup action for the entire Site. A letter from Ecology dated June 23, 2014, stated that Ecology agreed to allow soil with low concentrations of solvent to remain in place adjacent to the Hearthstone Property (Ecology 2014). A copy of the Ecology letter is provided in Appendix C. Any deed restrictions will be negotiated as part of the Environmental Covenant developed in conjunction with the Cleanup Action Plan and Consent Decree. Groundwater monitoring requirements and potential shallow groundwater treatment will also be negotiated as part of the final cleanup action (Ecology 2014).

Presented below is a discussion of field procedures and results for the interim remedial action at the Hearthstone Property. Analytical results for performance and confirmational soil samples are presented

in Table 3. A summary of the soil stockpile analytical results are presented in Table 4. The soil sampling grid is illustrated on Figure 7, and final soil confirmational results are presented on Figure 8. Groundwater analytical results for the construction dewatering well are presented in Table 5, and a summary of wastewater discharge results is presented in Table 6.

6.1 FIELD PROCEDURES

A description of field procedures is provided below.

6.1.1 <u>Shoring and Construction Dewatering</u>

During excavation activities associated with the interim remedial action, interlocking sheet piles were installed along the Woodlawn ROW and the alley separating Plastics Sales from Hearthstone Property (Figure 6). Soldier piles and lagging were installed on a portion of the Woodlawn ROW and along the entire length of the Latona ROW (Figure 6). The sheet piles installed along the Woodlawn ROW and in the alley adjacent to the Hearthstone Property were advanced to depths of approximately 25 feet bgs and 30 feet bgs, respectively. Soldier piles advanced in the Latona ROW were advanced to an approximate depth of 24 to 30 feet bgs.

Following installation of the sheet piles, a temporary dewatering system was constructed for the interim remedial excavation activities on the Hearthstone Property between May and September 2011. The dewatering system consisted of a dewatering well within the remedial excavation, a Baker tank, and associated piping (Figure 7). Groundwater captured by the dewatering system was temporarily stored in the Baker tank prior to discharge on a batch basis to the sewer system, pending the results of self-monitoring data collected in the field and receipt of analytical results for wastewater samples, in accordance with the discharge authorization permit (Appendix A of IRAWP). In September 2011, the interim remedial action was suspended for the rainy season and to secure additional funding to complete the interim remedial action. The dewatering well was abandoned in-place by Cascade Drilling, L.P. of Woodinville, Washington, on December 1, 2011. The dewatering well was abandoned in accordance the *Minimum Standards for the Construction and Maintenance of Well* (WAC 173-160). Between December 2011 and May 2012, the interim remedial excavation was allowed to fill with water and there was no discharge to the sewer system.

In May 2012, the interim remedial excavation was dewatered using one to three pumps placed near the bottom of the excavation. The dewatering continued periodically through the remainder of the interim remedial action. Groundwater captured by the pumps was discharged directly to the sewer system at the authorization of King County. In September 2011, King County approved Hearthstone's request for continuous wastewater discharge to the sanitary sewer, provided that all conditions were met as described in the Major Discharge Authorization No. 4164-02. Self-monitoring for pH, daily discharge volume, settleable solids, and total monthly discharge volume to the sanitary sewer were still provided.

6.1.2 <u>Performance and Confirmational Sampling</u>

Soil samples were collected during the excavation to demonstrate the removal of PCEcontaminated soil and provide confirmation that concentrations of PCE and its degradation compounds in soil were below preliminary cleanup levels at the design limits of the excavation. Performance wastewater samples were collected during the interim remedial action to demonstrate compliance with preliminary cleanup levels and the discharge authorization permit.

6.1.2.1 Construction of Soil Sampling Grid

Performance and confirmational samples were collected within a surveyed grid to confirm that concentrations of PCE and other COCs were below the preliminary cleanup levels. The sampling grid provided a mechanism for systematic sample collection and identification and was segregated into 70 discrete grid cells (GC01 through GC70), each measuring 10 feet by 10 feet (Figure 7).

6.1.2.2 Soil Performance Sampling

Performance monitoring was conducted during the course of the interim remedial excavation. The purpose of the performance sampling was to confirm that concentrations of PCE in excavated soil did not exceed 1.9 mg/kg, in accordance with the contained-out determination from Ecology; that excavated soil was suitable for disposal at a Subtitle D landfill; and to guide the excavation beyond the planned extent and depth where feasible and practicable. Performance samples represent confirmational samples at some locations.

Performance soil samples were collected at depth of 6 inches bgs using hand-tools. Sampling equipment was decontaminated between uses, as appropriate. Information logged during soil sampling included at a minimum: sample depth, Unified Soil Classification System (USCS) description, estimated soil moisture content, and physical indications of contamination (e.g., odors, staining).

In general, performance samples were collected from the center of each grid cell and/or the sidewall of each grid cell. Certain sample locations were not centered within a grid cell if the remedial excavation area occupied only a portion of a grid cell or the grid cell was sloped.

Performance samples were labeled in accordance with the IRAWP. Samples were logged on a Chain of Custody form and placed in a chilled cooler at 4 degrees Celsius (°C) for transport to the laboratory for chemical analysis, while maintaining Chain of Custody protocols.

6.1.2.3 Confirmational Soil Sampling

When the remediation construction contractor reached the predetermined limits of the interim remedial excavation and limits of soil requiring disposal under a contained-in determination, confirmational soil samples were collected to confirm the long-term effectiveness of the interim remedial action, in accordance with WAC 173-340-410(1)(c). Confirmational soil sampling was conducted at the base and/or sidewalls of excavated soil to confirm that concentrations of PCE and related COCs in soil at the design limits of the remedial excavation were below applicable preliminary cleanup levels.

Confirmational soil samples were collected at depths of 6 inches bgs using hand-tools. Sampling equipment was decontaminated between uses, as appropriate. Information logged during soil sampling included sample depth, USCS description, estimated soil moisture content, and physical indications of contamination (e.g., odors, staining).

Confirmational samples were labeled in accordance with the IRAWP. Samples were logged on a Chain of Custody form and placed in a chilled cooler at 4 °C for transport to the laboratory for chemical analysis, while maintaining chain-of-custody protocols.

Confirmational samples were collected in the same manner as performance samples. Performance samples may have coincided with confirmational samples at some locations.

Confirmational soil samples were not collected from the northern, western, and eastern sidewalls of the excavation due to the installation of sheet piles that precluded reasonable access to the sidewalls. The final confirmational soil sample locations are shown on Figure 8.

The lateral extent of soil removal for the interim remedial action was based on analytical results for confirmational soil samples indicating that the concentrations of PCE and related COCs were below the preliminary cleanup levels.

6.1.2.4 Stockpile Soil Sampling

The number of soil samples collected from stockpiles was based on the estimated volume of the stockpile. In general, three soil samples were collected for the first 100 cubic yards of stockpile soil and one additional soil sample was collected for every 100 cubic yards thereafter. Soil stockpiles were managed in accordance with best management practices. Detailed schematics of erosion control measures are provided in Appendix B of the IRAWP.

Stockpile soil samples were collected at depths of 6 to 12 inches beneath the surface of the stockpile using hand-tools. Sampling equipment was decontaminated between uses, as appropriate.

Stockpile samples were labeled in accordance with the IRAWP. Samples were logged on a Chain of Custody form and placed in a chilled cooler at 4 °C for transport to the laboratory for chemical analysis, while maintaining chain-of-custody protocols.

6.1.2.5 Wastewater Sampling

Wastewater captured and collected during the interim remedial action was field-monitored, sampled, and analyzed in accordance with the required frequency and criteria specified in the discharge authorization permit (Appendix A of the IRAWP). The specific analytes and frequency of performance sampling was modified in consultation with King County Metro prior to and during the interim remedial action.

Wastewater samples were labeled in accordance with the IRAWP. Samples were logged on a Chain of Custody form and placed in a chilled cooler at 4 °C for transport to the laboratory for chemical analysis, while maintaining chain-of-custody protocols.

6.1.2.6 Groundwater Sampling

Groundwater samples were collected from the dewatering well in September and December 2011Groundwater samples were collected and handled following the procedures listed below:

- The depth to the top of the groundwater table in the dewatering well was measured to an accuracy of 0.01 feet using an electronic water-level meter.
- The pump intake was placed at the approximate middle of the well screen.
- Groundwater samples were collected from the discharge tubing of the well and decanted directly into laboratory-prepared sample containers.
- Groundwater samples were labeled in accordance with the IRAWP, placed on ice in a cooler, and submitted for chemical analysis to the analytical laboratory. Sample

containers were labeled with the following information: client, project name and number, date and time sampled, sample identification, and sampler's initials.

 Samples were logged on a Chain of Custody form and placed in a chilled cooler at 4 °C for transport to the laboratory, while maintaining chain-of-custody protocols.

6.1.3 Field Procedures—Deviation from the IRAWP

The construction dewatering system used during the interim remedial action at the Hearthstone Property deviated from the original dewatering system design presented in the IRAWP. Originally, the dewatering system consisted of a collection trench with a high-capacity pump, four primary dewatering wells along the western Hearthstone Property boundary, two secondary dewatering wells near the remedial excavation, a Baker tank, and associated piping. However, because field observation indicated the proposed dewatering system was overdesigned, a single dewatering well was installed in the excavation.

Between May and September 2011, discharge from the dewatering well was temporarily stored in the Baker tank prior to discharge on batch basis to the sewer system. The dewatering well was abandoned in place on December 1, 2011. The dewatering well was abandoned in accordance the *Minimum Standards for the Construction and Maintenance of Well* (WAC 173-160). From May to July 2012, the interim remedial excavation was dewatered using pumps located just above the base of the excavation. The pumps discharge directly to the sewer system. King County authorized direct discharge of wastewater from the remedial excavation in September 2011.

6.2 CHEMICAL ANALYSIS

Soil, groundwater, and wastewater samples collected during the interim remedial action were submitted for laboratory analysis based on the identified COCs for soil at the Hearthstone Property and/or the criteria specified in the discharge authorization permit (Appendix A of the IRAWP). Soil samples were analyzed for COCs using EPA Method 8260B and in accordance with EPA 5035A protocols. Groundwater and wastewater samples were analyzed for COCs using EPA Method 8260C.

6.3 SOIL EXCAVATION

The interim remedial action was conducted in two phases. Phases I and II were conducted between July and September 2011, and May and July 2012. Between July and September 2011, soil known to contain detectable concentrations of PCE, based on analytical results from previous subsurface investigations, was temporarily stockpiled at the Hearthstone Property for less than 10 days and was loaded for disposal at the Roosevelt Landfill. Soil from the surface to 4 feet bgs was disposed of as PCE-containing based on analytical results from previous investigations. Suspected clean soil below 4 feet bgs was temporarily stockpiled at the Hearthstone Property and sampled in accordance with the IRAWP to confirm that soil contained less than 0.025 mg/kg PCE.

Between July 2011, and July 2012, 5,541 tons of PCE-contaminated soil were excavated from the Hearthstone Property and disposed of at the Roosevelt Landfill. A total of 1,700 tons of clean soil were disposed of at Wm. Dickson Co. landfill in Tacoma, Washington. Clean soil was identified during the interim remedial action as soil containing concentrations of PCE less than the laboratory reporting limits based on stockpile soil sample results and analytical results from previous subsurface investigations

conducted at the Hearthstone Property. Disposal tickets for clean and PCE-contaminated soil are presented in Appendix A.

7.0 INTERIM REMEDIAL ACTION RESULTS

This section provides a summary of analytical results for interim remedial action. Analytical results are presented on Figure 8 and Tables 3 through 7. Laboratory reports are presented in Appendix D.

7.1.1 Soil Analytical Results—Interim Remedial Excavation

A combined total of 118 performance and confirmational soil samples were collected during the interim remedial action, including 64 sidewall samples and 54 bottom samples. Concentrations of PCE in performance and confirmational soil samples ranged from less than 0.025 mg/kg to 1.8 mg/kg. A single concentration of TCE exceeding the cleanup level was detected in the soil sample collected beneath a footing at 17 feet bgs in grid cell GC02. At the completion of the interim remedial action 23 sidewall confirmational samples and 37 bottom confirmational samples remained in place. Sidewall confirmational soil samples were collected at depths of 5 to 12 feet bgs. Bottom confirmational soil samples ranged in depth from 15 to 17 feet bgs. Concentrations of PCE in confirmational soil samples are in Table 3 and on Figure 8.

7.1.2 Stockpile Samples

A total of 27 stockpile soil samples were collected during the interim remedial action to confirm that soil designated for disposal as clean soil did not contain concentrations of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, or vinyl chloride at concentrations above applicable laboratory detection limits. Analytical results for stockpile soil samples showed that soil samples contained concentrations of PCE ranging from less than 0.025 mg/kg to 0.51 mg/kg. TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride were not detected in stockpile soil samples at concentrations exceeding applicable laboratory detection limits. Stockpile soil containing concentrations of PCE above the laboratory practical quantitation limit was disposed of at the Roosevelt Landfill. Analytical results for stockpile soil samples are presented in Table 4.

7.1.3 Groundwater Analytical Results

Groundwater samples were collected from the dewatering well in September and November 2011, and April 2014. The concentrations of PCE in groundwater in September and November 2011, were 12 μ g/L and 5.3 μ g/L, respectively. PCE was not detected above the laboratory reporting limit in the April 2014 sample. Concentrations of TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride did not exceed the laboratory reporting limits in the analyzed samples.

Analytical results are presented in Tables 5 and 7.

7.1.4 <u>Wastewater Analytical Results</u>

Wastewater samples were collected from the dewatering system prior to discharging the water to the sanitary sewer system. At a minimum, samples were collected monthly and results were reported monthly to King County Metro in accordance with King County wastewater discharge authorization permit for the Hearthstone Property. Concentrations of PCE in the wastewater discharged ranged from 2.2 μ g/L to 77 μ g/L. Concentrations of PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride in the discharge water were less than the King County Water Discharge

Limits authorized under King County Major Discharge Authorization Permit No. 4164-02 (King County 2011). Discharge limits are presented in Table 6.

8.0 DATA QUALITY AND USABILITY

Data validation was conducted on current laboratory reports provided for the interim remedial action. Analytical results were evaluated for holding times, blank contamination, and accuracy and precision using quality control limits provided by the laboratory at the time an analysis was performed. Analytical results reviewed included PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride for soil, groundwater, and wastewater.

Based on the data validation results for the laboratory reports, the analytical results are acceptable to meet the objectives of the interim remedial action. Laboratory reports are presented in Appendix D.

9.0 CONCLUSIONS

Results from the interim remedial action indicated that soil containing PCE and other COCs has been removed to the maximum extent practicable in accordance with the IRAWP. At the completion of the interim action, soil at depths of 15 to 17 feet bgs in the central and northern portions of the interim remedial excavation contain concentrations of PCE exceeding the preliminary cleanup level (Figure 8). In addition, a single soil sample collected from 17 feet bgs in grid cell GC02 contains a concentration of TCE exceeding the cleanup level. Concentrations of PCE and other COCs in soil remaining in the sidewalls at the completion of interim remedial action do not exceed the laboratory reporting limits (Figure 8; Table 3).

The point of compliance for soil for the interim remedial action is based on the protection of groundwater and is established throughout the area of the interim remedial action. In accordance with the IRAWP, institutional and engineering controls are used to mitigate potential impact to human health and the environment. Carbon treatment for the permanent dewatering system outlined in the IRAWP was not included as part of the final design based on low levels during discharge monitoring (Table 6). An additional quarter of discharge monitoring will be completed in consultation with Ecology. Institutional controls implemented as part of the interim remedial action included constructing a floor slab for a single-level subsurface parking garage under 28 residential units at the Hearthstone Property that caps any remaining PCE-contaminated soil. Engineering controls below the slab include the installation of a vapor barrier with a passive vapor ventilation system to mitigate residual PCE in groundwater the vapor phase. Institutional and engineering controls confine human access to and potential leaching of residual PCE-contaminated soil at the Hearthstone Property and, therefore, limit the potential recontamination of other media of concern off the Hearthstone Property. As part of the final Cleanup Action Plan to be negotiated pursuant to a Consent Decree, any deed restrictions will be negotiated at part of an Environmental Covenant.

The most recent result from the temporary dewatering well indicates the concentration of PCE is below the preliminary cleanup level (Table 5). Concentrations of other COCs were not detected above the laboratory reporting limit in the 2011 dewatering well samples. In accordance with the IRAWP, the point of compliance for the Hearthstone Property for groundwater is the point or points where preliminary groundwater cleanup levels must be met within the area of interim remedial action. The points of compliance are established throughout the area of interim action from the uppermost level of the groundwater, extending vertically to the lowermost depth which could potentially be affected by the Hearthstone Property. Potential aambient air quality contamination was mitigated with a vapor barrier with a passive vapor ventilation system. In addition, sheet piles installed along the Woodlawn ROW in conjunction with redevelopment of the Hearthstone Property inhibits the downgradient migration of PCE-contaminated Shallow Zone groundwater that could result from the presence of residual PCE-contaminated soil at the Hearthstone Property.

Cleanup of contaminated soil and institutional and engineering controls associated with the development of the Hearthstone Property eliminate vapor as a medium of concern.

10.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed 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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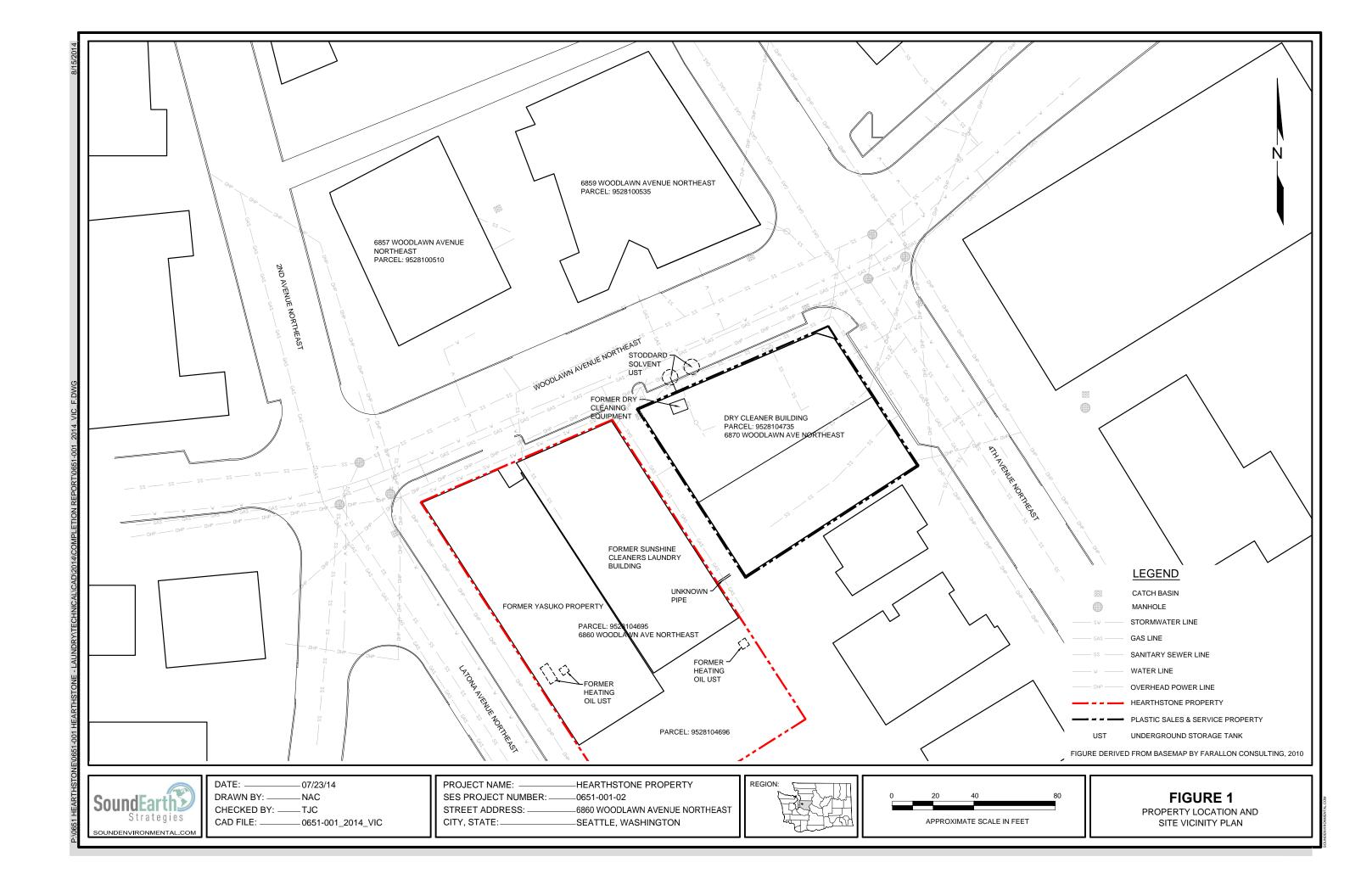
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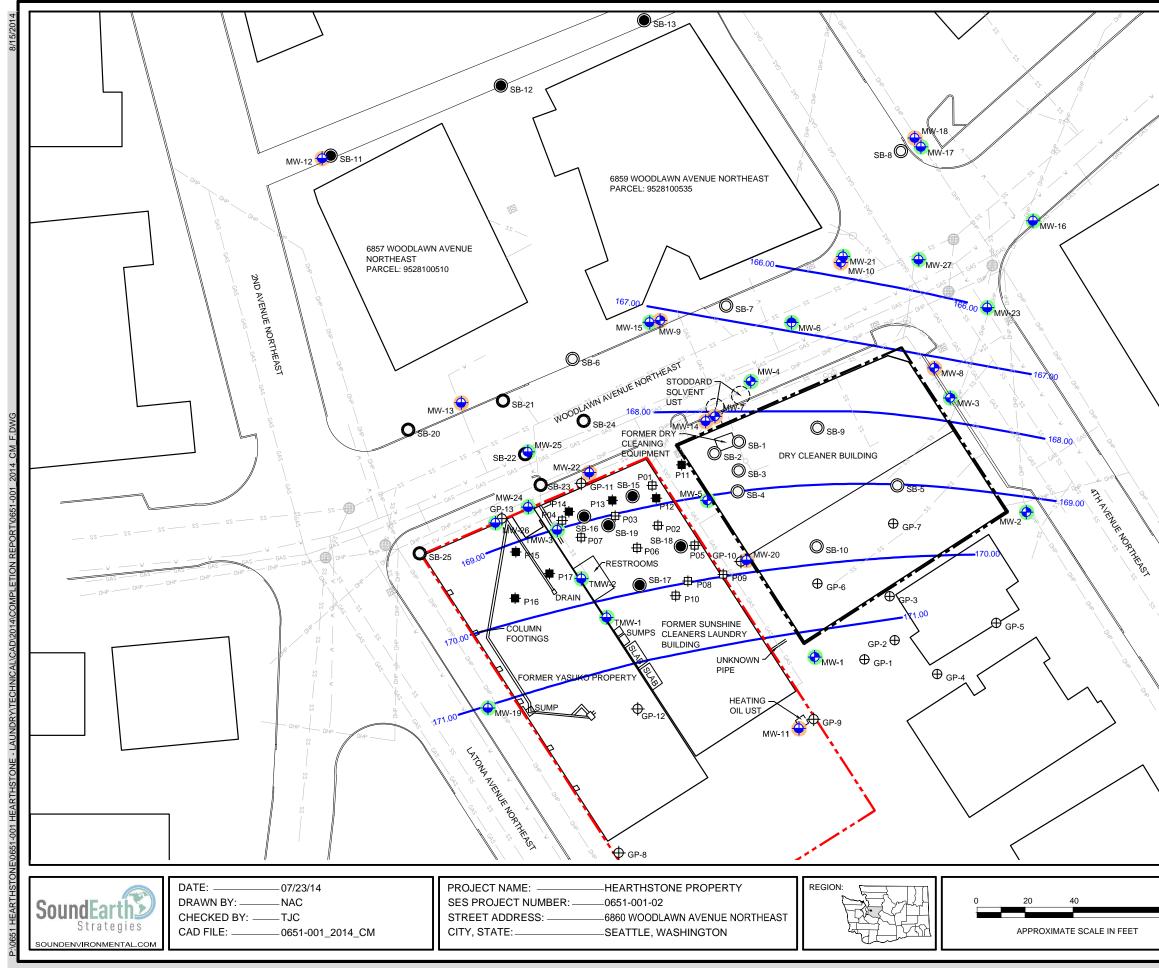
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FIGURES





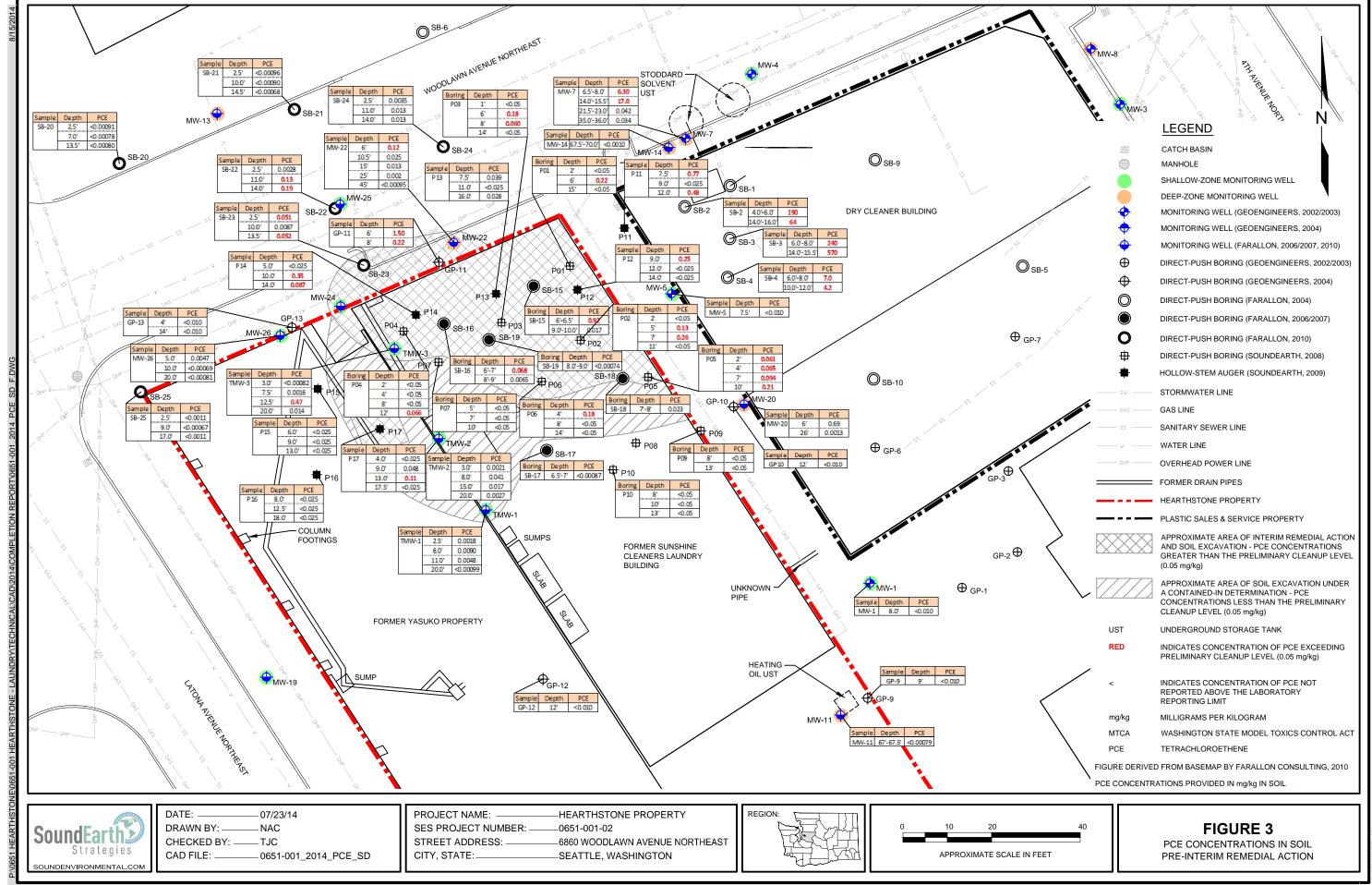
LEGEND

		_ I			
	CATCH BASIN				
\bigcirc	MANHOLE				
	SHALLOW-ZONE MONITORING WELL				
	DEEP-ZONE MONITORING WELL				
•	MONITORING WELL (GEOENGINEERS, 2002/2003)				
 	MONITORING WELL (GEOENGINEERS, 2004)				
	MONITORING WELL (FARALLON, 2006/2007, 2010)				
\oplus	DIRECT-PUSH BORING (GEOENGINEERS, 2002/2003)				
Φ	DIRECT-PUSH BORING (GEOENGINEERS, 2004)				
\bigcirc	DIRECT-PUSH BORING (FARALLON, 2004)				
\bigcirc	DIRECT-PUSH BORING (FARALLON, 2006/2007)	\mathbf{N}			
0	DIRECT-PUSH BORING (FARALLON, 2010)				
4	DIRECT-PUSH BORING (SOUNDEARTH, 2008)	1			
	HOLLOW-STEM AUGER (SOUNDEARTH, 2009)				
SW	STORMWATER LINE				
GAS	GAS LINE	1			
22	SANITARY SEWER LINE				
W	WATER LINE				
OHP	OVERHEAD POWER LINE				
	FORMER DRAIN PIPES				
	HEARTHSTONE PROPERTY	$\mathbf{\lambda}$			
	PLASTIC SALES & SERVICE PROPERTY				
	1-FOOT-INTERVAL GROUNDWATER ELEVATION CONTOUR, NOVEMBER 2008 (FARALLON, 2010)	1			
UST	UNDERGROUND STORAGE TANK				
GURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010					
	FIGURE 2				
- 11	EXPLORATION LOCATION MAP AND				

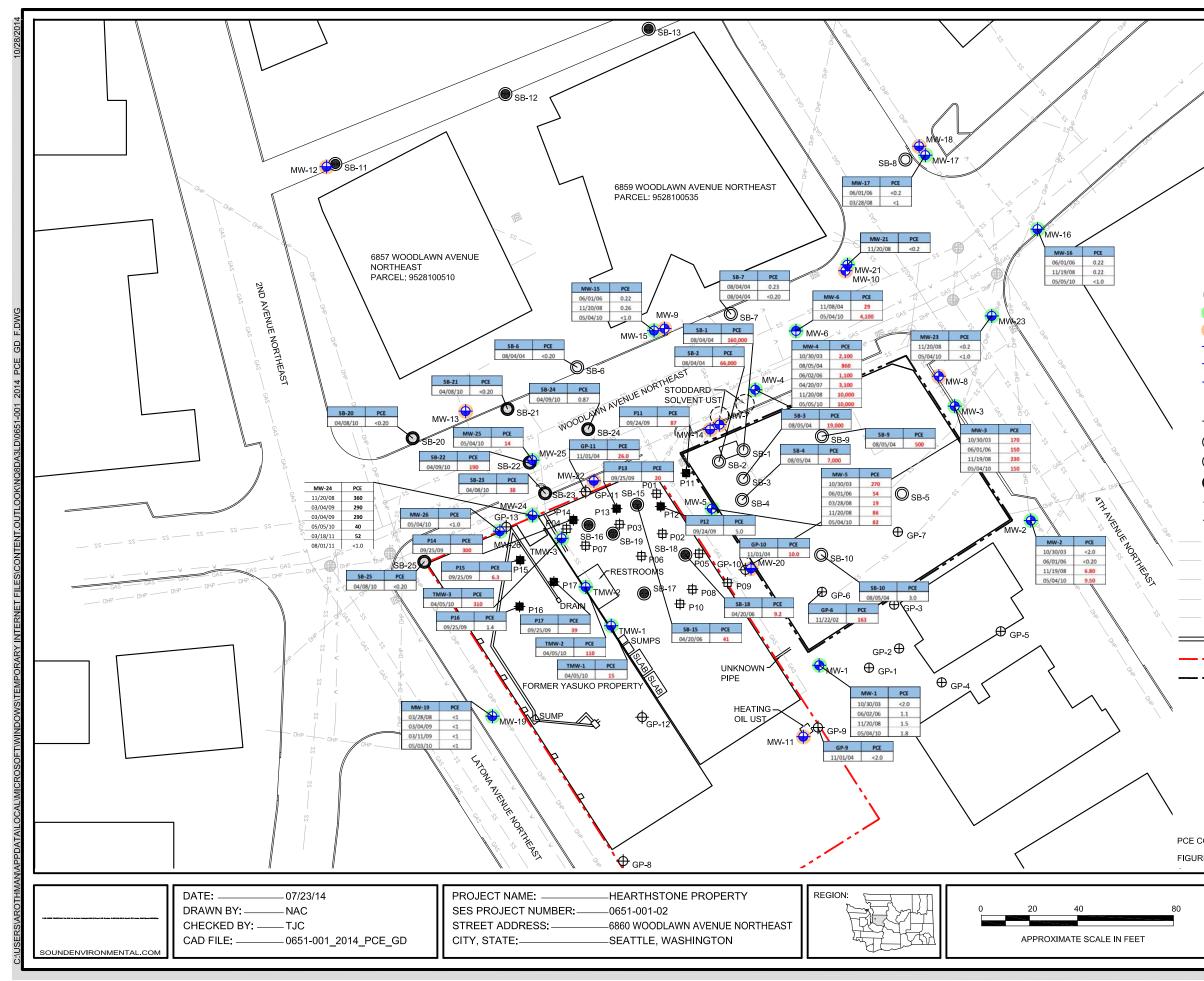
GROUNDWATER ELEVATION CONTOUR MAP

SHALLOW ZONE

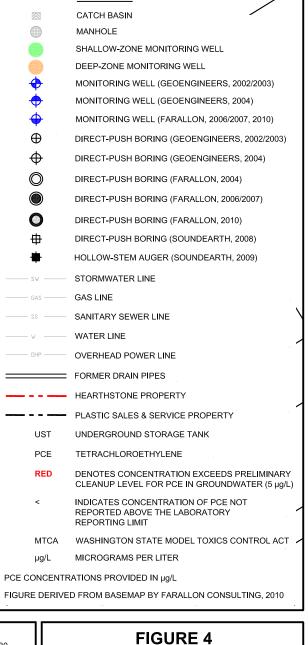
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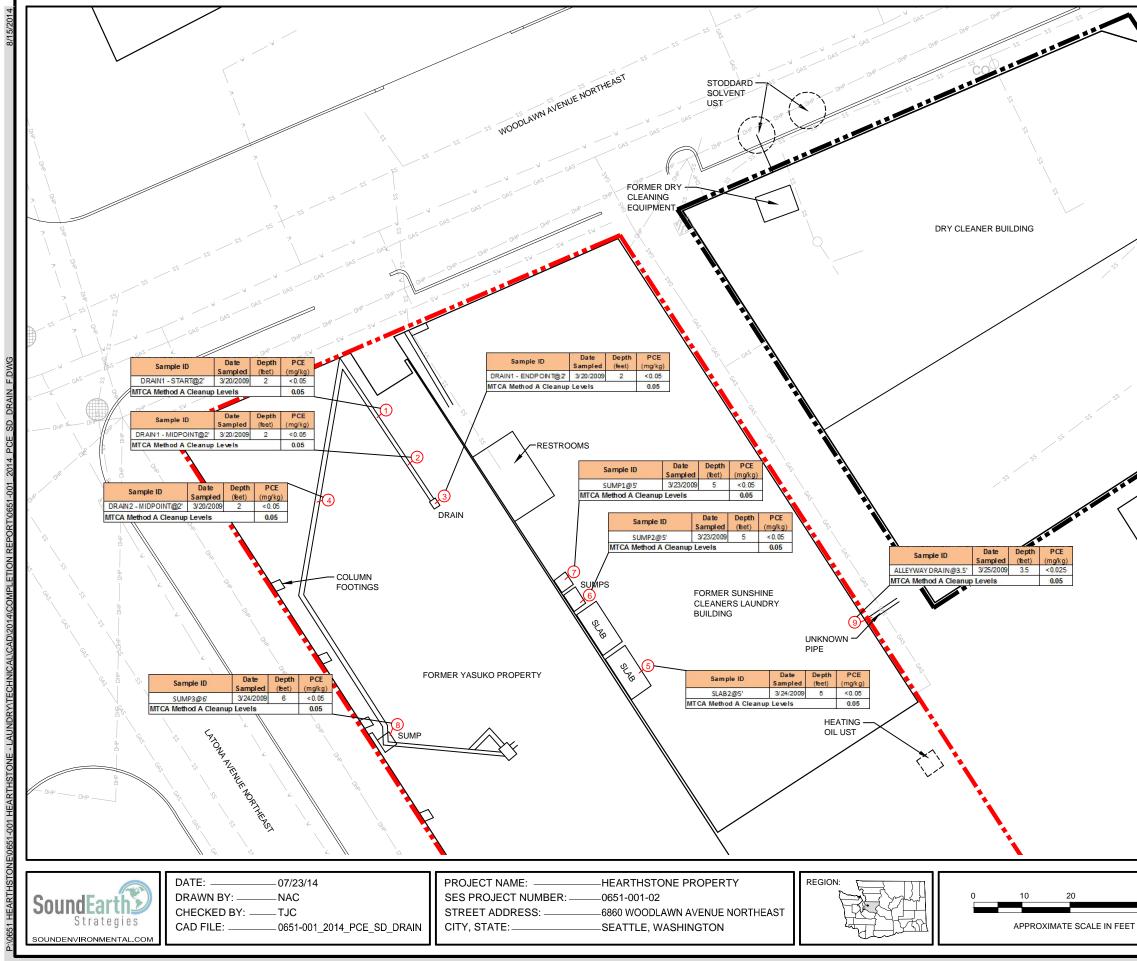


<u>LEGEND</u>



PCE CONCENTRATIONS IN SHALLOW ZONE GROUNDWATER PRE-INTERIM REMEDIAL ACTION

DENVIRONMENTAL CO



		-			
L	E	G	E	Ν	D

SHALLOW SOIL SAMPLE LOCATION CATCH BASIN

Ν

MANHOLE

1

 \otimes

UST

PCE

MTCA

mg/kg

STORMWATER LINE

GAS LINE

SANITARY SEWER LINE

WATER LINE

OVERHEAD POWER LINE

FORMER DRAIN PIPES

HEARTHSTONE PROPERTY

PLASTIC SALES & SERVICE PROPERTY

UNDERGROUND STORAGE TANK

TETRACHLOROETHENE

WASHINGTON STATE MODEL TOXICS CONTROL ACT

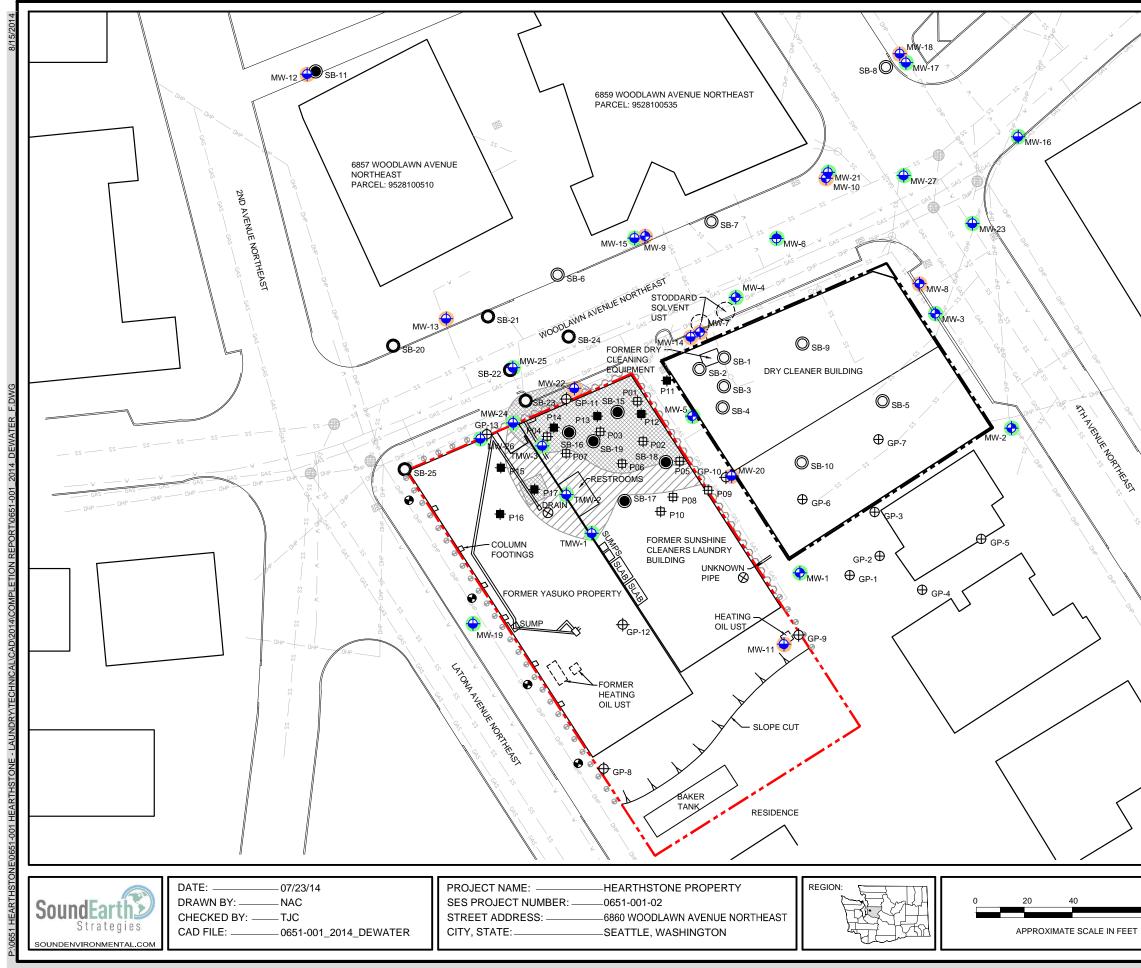
MILLIGRAMS PER KILOGRAM

FIGURE DERIVED FROM BASEMAP BY FARALLON CONSULTING, 2010

FIGURE 5

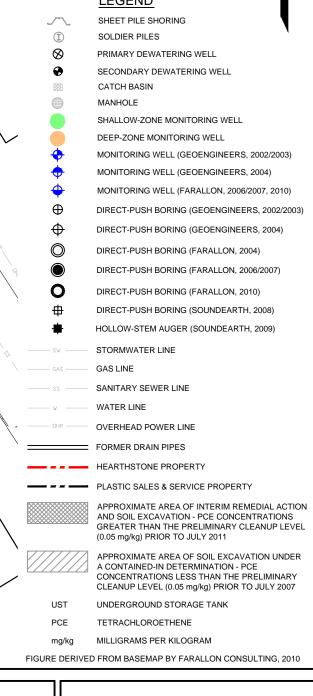
PCE CONCENTRATIONS IN SHALLOW SOIL BENEATH DRAIN LINES AND SUMPS PRE-INTERIM REMEDIAL ACTION

40



LEGEND

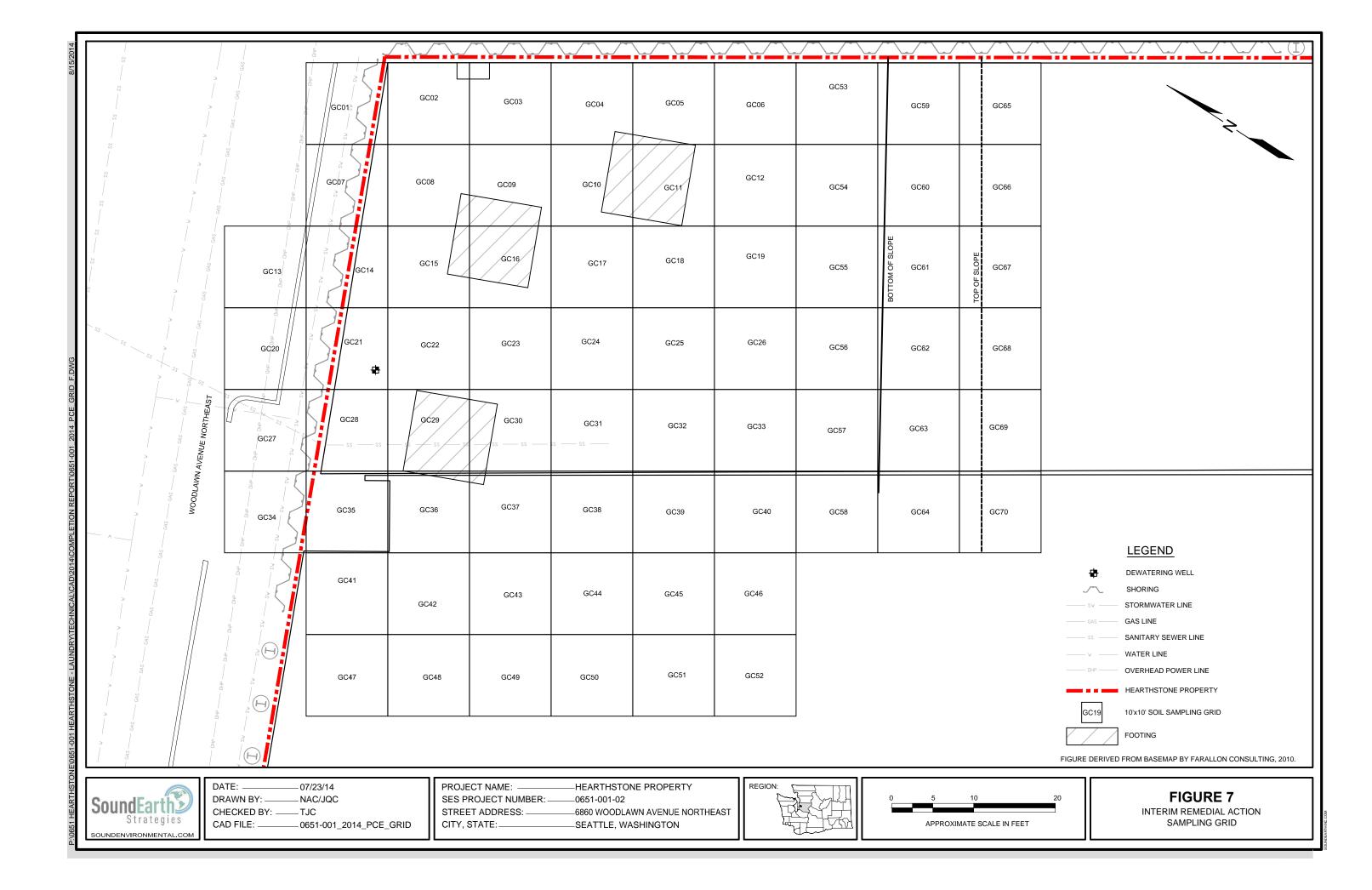
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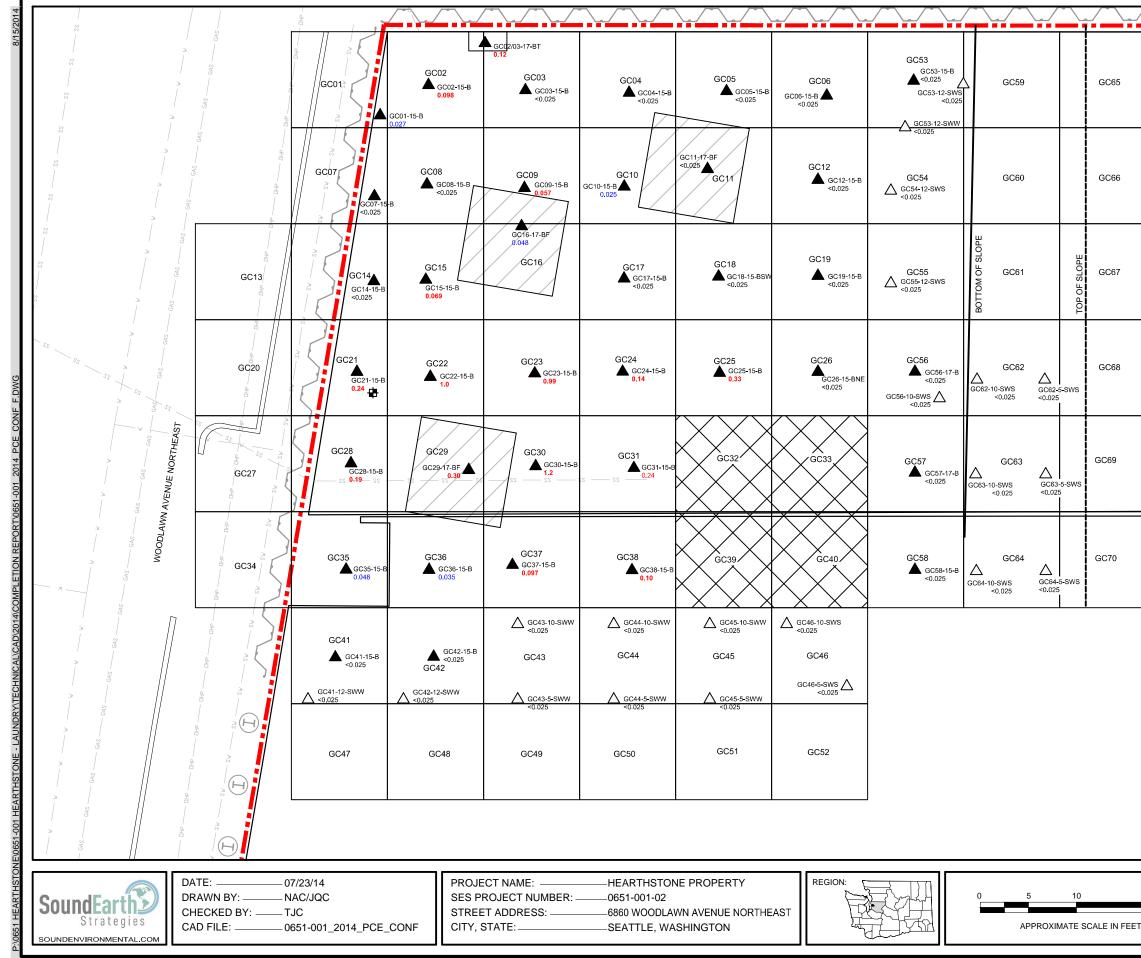


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FIGURE 6

CONCEPTUAL DEVELOPMENT SHORING AND DEWATERING LAYOUT





GC65		R
GC66		
		LEGEND
GC67		DEWATERING WELL SIDEWALL SOIL SAMPLE LOCATION BOTTOM SOIL SAMPLE LOCATION SHORING
GC68	ss w	STORMWATER LINE GAS LINE SANITARY SEWER LINE WATER LINE OVERHEAD POWER LINE
GC69	GC19	HEARTHSTONE PROPERTY 10'x10' SOIL SAMPLING GRID FOOTING
		SOIL REMOVED TO 21 FEET BELOW GROUND SURFACE FOR ELEVATOR SHAFT. NO CONFIRMATION SAMPLES COLLECTED AT 21 FEET BELOW GROUND SURFACE.
GC70	RED	
	BLUE	PRELIMINARY CLEANUP LEVEL (0.05 mg/kg) INDICATES CONCENTRATION OF PCE LESS THAN THE PRELIMINARY CLEANUP LEVEL BUT GREATER THAN THE LABORATORY REPORTING LIMIT
	<	INDICATES CONCENTRATION OF PCE NOT REPORTED ABOVE LABORATORY REPORT LIMIT
	PCE	TETRACHLOROETHENE
	mg/kg	MILLIGRAMS PER KILOGRAM
	bgs	BELOW GROUND SURFACE
		SAMPLE DESIGNATION
		GC17-15-B GRID CELL (GC) 17, 15 FEET bgs, BOTTOM (B).
		GC33-10-SWS GRID CELL (GC) 33, 5 FEET bgs, SIDEWALL (SW), SOUTH (S).
		GC16-17-BF GRID CELL (GC) 16, 17 FEET bgs, BOTTOM OF FOOTING (BF).
	FIGURE DERI	VED FROM BASEMAP BY FARALLON CONSULTING, 2010.
]
	20	FIGURE 8
LE IN FEET		MAP SHOWING PCE RESULTS IN CONFIRMATION SOIL SAMPLES

TABLES



			Data		Analytical Results ⁽¹⁾ (milligrams per kilogram)					
Boring ID	Sample ID	Sampled By	Date Sampled	Depth (feet bgs)	PCE	TCE	Cis-1,2-DCE	Trans-1,2- DCE	Vinyl Chloride	
MW-5	MW-5-7.5	GeoEngineers	10/22/03	7.5	<0.010	<0.010	0.022	<0.010	< 0.010	
	SB1-5-7			5-7	230	<1.1	<1.1	<1.1	<1.1	
SB1	SB1-13-16	Farallon	08/04/04	13-16	258	<0.50	<0.50	<0.50	< 0.50	
	SB2-4-6			4-6	190	<0.26	<0.26	<0.26	<0.26	
SB2	SB2-14-16	Farallon	08/04/04	14-16	64	0.43	<0.24	<0.24	<0.24	
622	SB3-6-8	- "	00/05/44	6-8	240	<0.48	<0.48	<0.48	<0.48	
SB3	SB3-14-15.5	Farallon	08/05/14	14-15.5	570	<0.48	<0.48	<0.48	<0.48	
69.4	SB4-6-8	Faur Han	00/05/114	6-8	7.0	0.56	0.12	<0.052	<0.052	
SB4	SB4-10-12	Farallon	08/05/14	10-12	4.2	0.23	0.066	<0.046	<0.046	
GP-9	GP-9-9	GeoEngineers	11/05/04	9	<0.010	<0.010	<0.010	<0.010	<0.010	
GP-10	GP-10-12	GeoEngineers	11/01/04	12	<0.010	< 0.010	0.014	<0.010	< 0.010	
	GP-11-6			6	1.50	<0.010	<0.010	<0.010	< 0.010	
GP-11	GP-11-8	GeoEngineers	11/01/04	8	0.22	<0.010	<0.010	<0.010	< 0.010	
GP-12	GP-12-12	GeoEngineers	11/05/04	12	<0.010	<0.010	<0.010	<0.010	<0.010	
CD 12	GP-13-4	CooFraincora	11/05/04	4	<0.010	<0.010	<0.010	<0.010	<0.010	
GP-13	GP-13-14	GeoEngineers	11/05/04	14	<0.010	<0.010	<0.010	<0.010	< 0.010	
	MW7-6.5-8.0			6.5-8.0	6.30	0.96	0.056	<0.055	<0.055	
MW7	MW7-14-15.5	Farallon	11/18/04	14-15.5	17.0	0.075	<0.044	<0.044	<0.044	
	MW7-21.5-23	Faralion	11/18/04	21.5-23	0.042	<0.0010	<0.0010	<0.0010	<0.0010	
	MW7-35-36			35-36	0.034	<0.0010	<0.0010	<0.0010	<0.0010	
SB15	SB15-6-6.5	Farallan	04/20/06	6-6.5	0.92	0.025	0.0016	<0.00079	<0.00079	
3812	SB15-9-10	Farallon	04/20/06	9-10	0.017	0.0094	0.054	0.0013	<0.00084	
SD16	SB16-6-7	Farallon	04/20/06	6-7	0.068	<0.00093	<0.00093	<0.00093	<0.00093	
SB16	SB16-8-9	Farallon	05/03/06	8-9	0.0065	<0.00078	<0.00078	<0.00078	<0.00078	
SB17	SB17-6.5-7	Farallon	05/03/06	6.5-7	<0.00087	<0.00087	<0.00087	<0.00087	<0.00087	
SB18	SB18-7-8	Farallon	04/20/06	7-8	0.023	<0.0011	<0.0011	<0.0011	<0.0011	
SB19	SB19-8-9	Farallon	04/20/06	8-9	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	
MW11	MW11-67-67.5	Farallon	05/10/06	67-67.5	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	
MW14	MW14-67.5-70	Farallon	05/22/06	67.5-70	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
MW-17	MW17-07	SoundEarth	03/26/08	7	<0.025	<0.03	<0.05	<0.05	<0.05	
1000 17	MW17-19	SoundEarth	03/20/00	19	<0.025	<0.03	<0.05	<0.05	<0.05	
MW-18	MW18-13	SoundEarth	03/26/08	13	0.12	<0.03	<0.05	<0.05	<0.05	
	MW18-18		,,	18	0.026	<0.03	<0.05	<0.05	<0.05	
	P01-02 ⁽²⁾			2	<0.05	< 0.03	<0.05	<0.05	<0.05	
P01	P01-06	SoundEarth	05/22/08	6	0.22	<0.03	<0.05	<0.05	<0.05	
	P01-15			15	<0.05	<0.03	<0.05	<0.05	<0.05	
	P02-02 ⁽²⁾	_		2	<0.05	<0.03	<0.05	<0.05	<0.05	
P02	P02-05	SoundEarth	05/22/08	5	0.13	<0.03	<0.05	<0.05	<0.05	
	P02-07		, _ _ ,	7	0.26	<0.03	<0.05	<0.05	<0.05	
	P02-11			11	<0.05	<0.03	<0.05	<0.05	<0.05	
	P03-01 ⁽²⁾	4		1	<0.05	<0.03	<0.05	<0.05	<0.05	
P03	P03-06	SoundEarth	05/22/08	6	0.18	<0.03	<0.05	<0.05	<0.05	
-	P03-08	_		8	0.060	<0.03	<0.05	<0.05	<0.05	
	P03-14			14	<0.05	<0.03	<0.05	<0.05	<0.05	
	P04-02 ⁽²⁾	_		2	<0.05	<0.03	<0.05	<0.05	<0.05	
P04	P04-04	SoundEarth	05/22/08	4	<0.05	<0.03	<0.05	<0.05	<0.05	
	P04-08		,	8	<0.05	<0.03	<0.05	<0.05	<0.05	
	P04-12			12	0.066	<0.03	<0.05	<0.05	< 0.05	
TCA Cleanup Le	vel for Soil				0.05 ⁽³⁾	0.03 ⁽³⁾	160 ⁽⁴⁾	1,600 ⁽⁴⁾	0.67 ⁽⁵⁾	



					Analytical Results ⁽¹⁾ (milligrams per kilogram)					
			Date	Depth				Trans-1,2-	Vinyl	
Boring ID	Sample ID	Sampled By	Sampled	(feet bgs)	PCE	TCE	Cis-1,2-DCE	DCE	Chloride	
	P05-02 ⁽²⁾			2	0.061	<0.03	<0.05	<0.05	<0.05	
P05	P05-04	SoundEarth	05/22/08	4	0.065	<0.03	<0.05	<0.05	<0.05	
105	P05-07	SoundEarth	03/22/00	7	0.094	<0.03	<0.05	<0.05	<0.05	
	P05-10			10	0.21	<0.03	<0.05	<0.05	<0.05	
	P06-04			4	0.18	<0.03	<0.05	<0.05	<0.05	
P06	P06-08	SoundEarth	05/22/08	8	<0.05	<0.03	<0.05	<0.05	<0.05	
	P06-14			14	<0.05	<0.03	<0.05	<0.05	<0.05	
	P07-05			5	<0.05	<0.03	<0.05	<0.05	<0.05	
P07	P07-07	SoundEarth	05/22/08	7	<0.05	<0.03	<0.05	<0.05	<0.05	
	P07-10			10	<0.05	<0.03	<0.05	<0.05	<0.05	
P09	P09-08	SoundEarth	05/22/08	8	<0.05	<0.03	<0.05	<0.05	<0.05	
	P09-13			13	<0.05	<0.03	<0.05	<0.05	<0.05	
	P10-08			8	<0.05	<0.03	<0.05	<0.05	<0.05	
P10	P10-10	SoundEarth	05/23/08	10	<0.05	<0.03	<0.05	<0.05	<0.05	
	P10-13			13	<0.05	<0.03	<0.05	<0.05	<0.05	
	MW-20-6-111008			6	0.69	0.044	0.0033	<0.00088	<0.00088	
MW-20	MW-20-26-111008	Farallon	11/10/2008	26	0.0013	<0.00076	<0.00076	<0.00076	<0.00076	
	MW-20-45-111008			45	<0.00087	<0.00087	<0.00087	<0.00087	<0.00087	
	MW-22			6	0.12	0.0028	<0.00099	<0.00099	<0.00099	
	MW-22		11/11/08	10.5	0.025	<0.00068	<0.00068	<0.00068	<0.00068	
MW-22	MW-22	Farallon		15	0.013	<0.00074	<0.00074	<0.00074	< 0.00074	
	MW-22			25	0.0020	<0.00068	<0.00068	<0.00068	<0.00068	
	MW-22			45	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095	
Sump 1	Sump1@5'-20090323	SoundEarth	03/23/09	5	<0.05	<0.03	<0.05	<0.05	<0.05	
Sump 2	Sump2@5'-20090323	SoundEarth	03/23/09	5	<0.05	<0.03	<0.05	<0.05	<0.05	
Sump 3	Sump3@6'-20090324	SoundEarth	03/24/09	6	<0.05	<0.03	<0.05	<0.05	<0.05	
Slab 2	Slab2@5'-20090324	SoundEarth	03/24/09	5	<0.05	<0.03	<0.05	<0.05	<0.05	
Alleyway drain	Alleyway drain@3.5'- 20090325	SoundEarth	03/25/09	3.5	<0.025	<0.03	<0.05	<0.05	<0.05	
	Drain1-Start@2'- 20090320			2	<0.05	<0.03	<0.05	<0.05	<0.05	
Drain 1	Drain1-Midpoint@2'- 20090320	SoundEarth	03/20/09	2	<0.05	<0.03	<0.05	<0.05	<0.05	
	Drain1-Endpoint@2'- 20090320			2	<0.05	<0.03	<0.05	<0.05	<0.05	
Drain 2	Drain2-Endpoint@2'- 20090320	SoundEarth	03/20/09	2	<0.05	<0.03	<0.05	<0.05	<0.05	
	P11-07.5			7.5	0.77	0.99	0.34	<0.05	< 0.05 ^{jl}	
P11	P11-09	SoundEarth	09/24/09	9	<0.025	< 0.03	0.94	<0.05	< 0.05 ^{jl}	
	P11-12			12	0.48	0.072	0.44	<0.05	< 0.05 ^{jl}	
	P12-09			9	0.25	< 0.03	<0.05	<0.05	< 0.05 ^{jl}	
P12	P12-12	SoundEarth	09/24/09	12	<0.025	<0.03	<0.05	<0.05	< 0.05 ^{jl}	
	P12-14			14	<0.025	<0.03	<0.05	<0.05	< 0.05 ^{jl}	
	P13-07.5			7.5	0.039	< 0.03	<0.05	<0.05	< 0.05	
P13	P13-11	SoundEarth	09/25/09	11	<0.025	< 0.03	< 0.05	< 0.05	< 0.05	
	P13-16			16	0.028	< 0.03	< 0.05	< 0.05	< 0.05	
	P14-05			5	<0.025	< 0.03	< 0.05	< 0.05	< 0.05	
P14	P14-10	SoundEarth	09/25/09	10	0.35	<0.03	<0.05	<0.05	< 0.05	
	P14-14			14	0.087	<0.03	<0.05	<0.05	< 0.05	
	P15-06			6	<0.025	<0.03	<0.05	<0.05	<0.05	
P15	P15-09	SoundEarth	09/25/09	9	<0.025	<0.03	<0.05	<0.05	<0.05	
P15				13	<0.025	<0.03	<0.05	<0.05	<0.05	
	P15-13									



					Ar	nalytical Resu	lts⁽¹⁾ (milligrar		
Boring ID	Sample ID	Sampled Bu	Date Sampled	Depth (feet bgs)	PCE	TCE	Cis-1,2-DCE	Trans-1,2- DCE	Vinyl
Boring ID	Sample ID	Sampled By	Sampled	(feet bgs)					Chloride
P16	P16-08 P16-12.5	SoundEarth	09/25/09	8 12.5	<0.025 <0.025	<0.03 <0.03	<0.05 <0.05	<0.05 <0.05	<0.05 <0.05
110	P16-12.5	SoundEarth	05/25/05	12.5	<0.025	<0.03	<0.05	<0.05	< 0.05
	P17-04			4	<0.025	<0.03	<0.05	<0.05	< 0.05
	P17-09	_		9	0.048	<0.03	<0.05	<0.05	<0.05
P17	P17-13	SoundEarth	09/25/09	13	0.048	<0.03	<0.05	<0.05	< 0.05
_	P17-17.5	-		17.5	<0.025	<0.03	<0.05	<0.05	< 0.05
	TMW-1			2.5	0.0018	<0.00092	<0.00092	<0.00092	< 0.00092
_	TMW-1	-		6.0	0.0090	<0.00052	<0.00052	<0.00052	<0.00052
TMW-1	TMW-1	Farallon	03/30/10	11.0	0.0048	<0.00068	<0.00068	<0.00068	<0.00068
_	TMW-1	-		20.0	<0.00099	<0.00099	<0.00099	<0.00099	<0.00099
	TMW-1 TMW-2			3.0	0.0021	<0.00093	<0.00099	<0.00099	< 0.00093
_	TMW-2	-		8.0	0.0021	<0.00034	<0.00034	<0.00034	< 0.00034
TMW-2	TMW-2	Farallon	03/30/10	15.0	0.041	<0.00080	<0.00080	<0.00080	< 0.00080
	TMW-2	-		20.0	0.0027	<0.00083	<0.00083	<0.00083	< 0.00083
	TMW-2			3.0	<0.0027	<0.00084	<0.00084	<0.00084	<0.00084
	TMW-3	-		7.5	0.0016	<0.00082	<0.00032	<0.00032	< 0.00072
TMW-3	TMW-3	Farallon	03/30/10	12.5	0.0010	0.0035	0.0011	<0.00072	<0.00072
-	TMW-3	-		20.0	0.014	<0.0033	<0.0011	<0.00078	< 0.00077
				20.0	<0.00091		<0.00077		
SB-20	SB-20	Farallon	04/08/10			<0.00091		<0.00091	< 0.00091
36-20	SB-20	Taranon	04/08/10	7.0	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078
	SB-20			13.5	<0.00080	<0.00080	<0.00080	<0.00080	<0.00080
SP 21	SB-21	Farallon	04/08/10	2.5	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.0009
SB-21	SB-21	Farallon	04/08/10	10.0	<0.00090	< 0.00090	<0.00090	<0.00090	< 0.0009
	SB-21			14.5	<0.00068	<0.00068	<0.00068	<0.00068	<0.00068
CD 22	SB-22	Faura II au	04/00/110	2.5	0.0028	<0.00083	<0.00083	<0.00083	<0.00083
SB-22	SB-22	Farallon	04/08/10	11.0	0.13	0.0019	<0.00084	<0.00084	< 0.00084
	SB-22			14.0	0.19	0.0029	< 0.0012	< 0.0012	< 0.0012
SB-23	SB-23	Farallon	04/08/10	2.5	0.051	< 0.00091	< 0.00091	<0.00091	< 0.00091
	SB-23			10.0	0.0087	<0.00086	<0.00086	<0.00086	<0.00086
	SB-23			13.5	0.052	0.00087	<0.00071	<0.00071	< 0.00071
	SB-24			2.5	0.0035	<0.00083	<0.00083	<0.00083	<0.00083
SB-24	SB-24	Farallon	04/08/10	11.0	0.013	0.00079	<0.00059	<0.00059	< 0.00059
	SB-24			14.0	0.013	0.00092	<0.00067	<0.00067	< 0.00067
	SB-25			2.5	<0.0011	<0.0011	<0.0011	<0.0011	< 0.0011
SB-25	SB-25	Farallon	04/08/10	9.0	<0.00067	<0.00067	<0.00067	<0.00067	< 0.00067
	SB-25			17.0	<0.0011	<0.0011	<0.0011	<0.0011	< 0.0011
	MW-26			5.0	0.0047	<0.00089	<0.00089	<0.00089	< 0.00089
MW-26	MW-26	Farallon	04/26/10	10.0	<0.00069	<0.00069	<0.00069	<0.00069	< 0.00069
	MW-26			20.0	<0.00081	<0.00081	<0.00081	<0.00081	<0.00082
SB-26	SB26-1.3	Farallon	02/23/11	1.3	2.5	0.0016	<0.00086	<0.00086	<0.00086
	SB26-8.0			8.0	0.16	0.0051	0.0073	<0.00082	< 0.00082
	SB27-2.5			2.5	48	0.032	< 0.0014	<0.0014	< 0.0014
SB-27	SB27-7.5	Farallon	02/23/11	7.5	40	0.27	0.031	0.0014	< 0.0013
	SB27-12.0			12.0	170	0.96	0.020	<0.0011	0.0049
SB-29	SB29-4.0	Farallon	02/25/11	4.0	1.0	<0.0011	<0.0011	<0.0011	<0.0011
	SB29-9.0		,,	9.0	<0.0077	<0.00077	<0.00077	<0.00077	< 0.0007
SB-30	SB30-3.0	Farallon	02/25/11	3.0	0.071	<0.00082	<0.00082	<0.00082	< 0.00082
00 00	SB30-10.0	. di di di di	02/20/11	10.0	0.020	<0.00078	<0.00078	<0.00078	<0.00078
SB-31	SB31-2.0	Farallon	02/25/11	2.0	0.67	0.0023	<0.0011	<0.0011	<0.0011
55 51	SB31-8.5	1 di dilotti	02/23/11	8.5	0.013	<0.00085	<0.00085	<0.00085	<0.00085
SB-32	SB32-3.0	Farallon	02/25/11	3.0	1.9	<0.0014	<0.0014	<0.0014	<0.0014
50 52	SB32-7.5	i ai alloli	02/23/11	7.5	2.9	0.0098	0.0017	<0.00079	<0.00079
SB-33	SB33-3.0	Farallon	02/25/11	3.0	0.46	<0.0019	<0.0019	<0.0019	<0.0019
JD-33	SB33-8.5	Faranon	02/25/11	8.5	<0.0075	<0.00075	0.00091	<0.00075	0.0050
SP 24	SB34-3.0	Earallan	02/25/11	3.0	0.12	0.0010	<0.00085	<0.00085	<0.00085
SB-34	SB34-8.0	- Farallon	02/25/11	8.0	7.3	0.11	<0.054	<0.054	<0.054
			•	•	0.05 ⁽³⁾	0.03 ⁽³⁾	160 ⁽⁴⁾	1,600 ⁽⁴⁾	0.67 ⁽⁵⁾

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					Analytical Results ⁽¹⁾ (milligrams per kilogram)						
Boring ID	Sample ID	Sampled By	Date Sampled	Depth (feet bgs)	PCE	TCE	Cis-1,2-DCE	Trans-1,2- DCE	Vinyl Chloride		
SB-35	SB35-5.0	Farallon	02/25/11	5.0	0.12	<0.00087	<0.00087	<0.00087	<0.00087		
30-33	SB35-10.5	Faralion	02/23/11	10.5	<0.0077	<0.00077	<0.00077	<0.00077	<0.00077		
SB-36	SB36-3.0	Farallon	02/25/11	3.0	0.075	0.0056	<0.00092	<0.00092	<0.00092		
38-30	SB36-10.5	Taranon		10.5	< 0.0061	< 0.00061	< 0.00061	<0.00061	< 0.00061		
MW-27	MW27-13.5	Farallon	06/28/11	13.5	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012		
SB-37	SB37-5.5	Farallon	12/12/12	5.5	54						
36-37	SB37-9.5	Taranon		9.5	79,000						
SB-38	SB38-5.5	Farallon	12/12/12	5.5	4.3						
30-30	SB38-9.0	Faralion	12/12/12	9.0	17						
SB-39	SB39-5.5	Farallon	12/12/12	5.5	1.5						
30-39	SB39-10.0	Faidlion	12/12/12	10.0	11						
ATCA Cleanup Lev		0.05 ⁽³⁾	0.03 ⁽³⁾	160 ⁽⁴⁾	1.600 ⁽⁴⁾	0.67 ⁽⁵⁾					

MTCA Cleanup Level for Soi

NOTES:

Red denotes concentration exceeds MTCA soil cleanup level.

SoundEarth samples analyzed by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾Analyzed by EPA Method 8260B or 8260C.

⁽²⁾Sample was analyzed outside of recommended holding time.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Soil

Cleanup Levels for Unrestricted Land Uses, revised November 2007.

⁽⁴⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

^(S)MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

Laboratory Note:

^{JI}The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

-- = sample not analyzed

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculations

DCE = dichloroethene

EPA = U.S. Environmental Protection Agency

Farallon = Farallon Consulting, LLC

GeoEngineers = GeoEngineers, Inc.

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene



Table 2 Summary of Historical Groundwater Analytical Results - CVOCs Hearthstone Property 6860 Woodlawn Avenue Northeast Seattle, Washington

				An	alytical Results ⁽¹⁾ (m	icrograms per liter)	
	Compled Dr.	Date	PCE	TCE		Trans-1,2-DCE	Vinul Chlorido
Boring or Well ID	Sampled By	Sampled		Well Groundwate	Cis-1,2-DCE	ITAIIS-1,2-DCE	Vinyl Chloride
	GeoEngineers	10/30/03	<2.0	<2.0	<2.0	<2.0	<2.0
	GeoLingineers	06/02/06	1.1	<0.20	<0.20	<0.20	<0.20
MW-1	Farallon	11/20/08	1.5	<0.20	<0.20	<0.20	<0.20
	raranon	05/04/10	1.5	<0.20	<0.2	<0.2	<0.20
	GeoEngineers	10/30/03	<2.0	<2.0	<2.0	<2.0	<2.0
-	deorngineers	06/01/06	<0.20	5.5	<0.20	<0.20	<0.20
MW-2	Farallon	11/19/08	6.80	4.6	<0.20	<0.20	<0.20
		05/04/10	9.50	3.5	<0.2	<0.2	<0.2
	GeoEngineers	10/30/03	170	<2.0	<2.0	<2.0	<2.0
	deorngmeers	06/01/06	150	1.1	<1.0	<1.0	<1.0
MW-3	Farallon	11/19/08	230	1.6	2	<1.0	<1.0
		05/04/10	150	<1.0	<1.0	<1.0	<1.0
	GeoEngineers	10/30/03	2,100	220	92	<2.0	20
-	deorngmeers	08/05/04	860	1,200	250	<10	68
		06/02/06	1,100	730	590	<10	170
MW-4	Farallon	04/20/07	3,100	720	940	<20	160
		11/20/08	10,000	640	1,100	<50	130
		05/05/10	10,000	1,000	1,600	<50	370
	GeoEngineers	10/30/03	270	46	<2.0	<2.0	<2.0
-	Farallon	06/01/06	54	9.6	3.3	<0.4	<0.4
MW-5	SoundEarth	03/28/08	19	110	40	<1	2.8
		11/20/08	86	67	37	1.4	5.5
	Farallon	05/04/10	82	34	27	0.44	0.88
	GeoEngineers	11/08/04	29	18	11	<2.0	6
MW-6	Farallon	05/04/10	4,100	330	440	<20	110
MW-11	Farallon	06/02/06	<0.2	<0.2	<0.2	<0.2	<0.2
	Turunon	06/01/06	0.22	<0.2	<0.2	<0.2	<0.2
MW-15	Farallon	11/20/08	0.26	<0.2	<0.2	<0.2	<0.2
-		05/04/10	<1.0	<0.2	<0.2	<0.2	<0.2
		06/01/06	0.22	<0.2	<0.2	<0.2	<0.2
MW-16	Farallon	11/19/08	0.22	<0.2	<0.2	<0.2	<0.2
		05/05/10	<1.0	<0.2	<0.2	<0.2	<0.2
	Farallon	06/01/06	<0.2	<0.2	<0.2	<0.2	<0.2
MW-17	SoundEarth	03/28/08	<1	<1	<1	<1	<0.2
MW-18	SoundEarth	03/28/08	650	5.1	<1	<1	<0.2
1111 10	SoundEarth	03/28/08	<1	<1	<1	<1	<0.2
	SoundEarth	03/04/09	<1	<1	<1	<1	<0.2
MW-19		03/11/09	<1	<1	<1	<1	<0.2
-	Farallon	05/03/10	<1	<0.2	<0.2	<0.2	<0.2
MW-21	Farallon	11/20/08	<0.2	<0.2	<0.2	<0.2	<0.2
		11/20/08	<0.2	<0.2	<0.2	<0.2	<0.2
MW-23	Farallon	05/04/10	<1.0	<0.2	<0.2	<0.2	<0.2
	SoundEarth	03/28/08	650	<10	<10	<10	<2
-		11/20/08	360	3.4	<2.0	<2.0	<2.0
	Farallon	03/04/09	290	<10	<10	<10	<2
MW-24 ⁽²⁾	SoundEarth	03/04/09	290	2.3	<10	<10	<0.2
	Farallon	05/05/10	40	0.42	<0.2	<0.2	<0.2
-	SoundEarth	03/18/11	52	<1	<1	<1	<0.2
-	SoundEarth	08/01/11	<1.0	<1.0	<1.0	<1.0	<1.0
MW-25	Farallon	05/04/10	14	0.31	<0.2	<0.2	<0.2
MW-25	Farallon	05/04/10	<1.0	<0.2	<0.2	<0.2	<0.2
MW-20	Farallon	07/01/11	<0.2	<0.2	<0.2	<0.2	<0.2
	or Groundwater	07/01/11	<0.2 5 ⁽³⁾	<0.2 5 ⁽³⁾	<0.2 16 ⁽⁴⁾	<0.2 160 ⁽⁴⁾	<0.2 0.2 ⁽⁵⁾



Table 2 Summary of Historical Groundwater Analytical Results - CVOCs Hearthstone Property 6860 Woodlawn Avenue Northeast Seattle, Washington

		D .1.	Analytical Results ⁽¹⁾ (micrograms per liter)								
	Constant P	Date	PCE	TCE		Trend 1 3 DCF					
Boring or Well ID	Sampled By	Sampled	-	ance Groundwate	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl Chloride				
GP-6	GeoEngineers	11/22/02	163	55.8	30.7	0.831	<0.200				
GP-9	GeoEngineers	11/01/04	<2.0	<2.0	<2.0	<2.0	<2.0				
GP-10	GeoEngineers	11/01/04	10.0	<2.0	<2.0	<2.0	<2.0				
GP-11	GeoEngineers	11/01/04	26.0	<2.0	<2.0	<2.0	<2.0				
SB-1	Farallon	08/04/04	160,000	<1,000	<1,000	<1,000	<1,000				
SB-2	Farallon	08/04/04	66,000	660	<500	<500	<500				
SB-3	Farallon	08/05/04	19,000	<500	<500	<500	<500				
SB-4	Farallon	08/05/04	7,000	32	16	<10	<10				
SB-6	Farallon	08/04/04	<0.20	<0.20	<0.20	<0.20	<0.20				
SB-7-7	Farallon	08/04/04	0.23	<0.20	<0.20	<0.20	<0.20				
SB-7-16	Farallon	08/04/04	<0.20	<0.20	<0.20	<0.20	<0.20				
SB-9	Farallon	08/05/04	<0.20 500	25	14	<4.0	<4.0				
SB-10	Farallon	08/05/04	3.0	0.61	2.1	<0.20	<0.20				
RGW-SB11-27.5	Farallon	08/03/04	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB11-27.5	Faralion	04/19/06	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB11-47.5	Farallon		2.2		<0.20	<0.20	<0.20				
RGW-SB11-55		04/19/06		<0.20							
RGW-SB11-00.5	Farallon	04/19/06	3.5	<0.20	<0.20	<0.20	<0.20				
	Farallon	04/17/06	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB12-37.5	Farallon	04/17/06	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB12-57.5	Farallon	04/17/06	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB12-67	Farallon	04/17/06	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB13-25	Farallon	04/18/06	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB13-35	Farallon	04/18/06	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB13-57.5	Farallon	04/18/06	<0.20	<0.20	<0.20	<0.20	<0.20				
RGW-SB13-67.5	Farallon	04/18/06	<0.20	<0.20	<0.20	<0.20	<0.20				
SB-15	Farallon	04/20/06	41	12	17	0.57	<0.20				
SB-18	Farallon	04/20/06	9.2	0.29	<0.20	<0.20	<0.20				
P11	SoundEarth	09/24/09	87	16	36	<1	1.3				
P12	SoundEarth	09/24/09	5.0	<1	<1	<1	<0.2				
P13	SoundEarth	09/25/09	20	<1	<1	<1	<0.2				
P14	SoundEarth	09/25/09	300	8.0	14	<1	<0.2				
P15	SoundEarth	09/25/09	6.3	<1	<1	<1	<0.2				
P16	SoundEarth	09/25/09	1.4	<1	<1	<1	<0.2				
P17	SoundEarth	09/25/09	39	<1	<1	<1	<0.2				
TMW-1	Farallon	04/05/10	15	0.29	<0.2	<0.2	<0.2				
TMW-2	Farallon	04/05/10	110	1.5	<1.0	<1.0	<1.0				
TMW-3	Farallon	04/05/10	310	3.6	<2.0	<2.0	<2.0				
SB-20	Farallon	04/08/10	<0.20	<0.20	<0.20	<0.20	<0.20				
SB-21	Farallon	04/08/10	<0.20	<0.20	<0.20	<0.20	<0.20				
SB-22	Farallon	04/09/10	190	4.4	1.6	<0.20	<0.20				
SB-23	Farallon	04/08/10	38	1.1	0.79	<0.20	<0.20				
SB-24	Farallon	04/09/10	0.87	0.21	<0.20	<0.20	<0.20				
SB-25	Farallon	04/08/10	<0.20	<0.20	<0.20	<0.20	<0.20				
SB-26	Farallon	02/23/11	240	5.7	4.7	<1.0	<1.0				
SB-27	Farallon	02/23/11	75,000	590	<500	<500	<500				
SB-29	Farallon	02/25/11	120	<1.0	<1.0	<1.0	<1.0				
SB-30	Farallon	02/25/11	17	<0.20	<0.20	<0.20	<0.20				
SB-32	Farallon	02/25/11	68	1.1	1.4	<0.40	<0.40				
SB-35	Farallon	02/25/11	52	<0.40	<0.40	<0.40	<0.40				
ITCA Cleanup Level f		02,20,11	5 ⁽³⁾	5 ⁽³⁾	16 ⁽⁴⁾	160 ⁽⁴⁾	0.2 ⁽⁵⁾				

NOTES:

Red denotes concentration exceeds MTCA groundwater cleanup level.

SoundEarth samples analyzed by ESN Northwest of Olympia, Washington, and Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾Analyzed by EPA Method 8260 or 8260C.

⁽²⁾MW-24 formerly designated as MW-20, redesignated by Farallon as MW-24.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup

Levels for Groundwater, revised November 2007.

(4) MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard PCE = tetrachloroethene Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

⁽⁵⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

< = not detected at a concentration exceeding the laboratory reporting limit

CLARC = Cleanup Levels and Risk Calculations

DCE = dichloroethene

EPA = U.S. Environmental Protection Agency

Farallon = Farallon Consulting, LLC

GeoEngineers = GeoEngineers, Inc.

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

TCE = trichloroethene



							Analytical Results ⁽¹⁾ (in milligrams per kilogram)				
Grid Cell Location	Sample ID	Sample Location	Sample Status	Sample Type	Date Sampled	Depth (feet bgs)	PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl Chloride
GC01	GC01-15-B	Bottom	In Place	Confirmation	7/29/2011	15	0.027	<0.025	<0.025	<0.025	<0.025
GC02	GC02/03-17-T	Bottom of Footing	In Place	Confirmation	9/15/2011	17	0.12	0.098	<0.025		<0.025
0002	GC02-15-B	Bottom	In Place	Confirmation	7/29/2011	15	0.098	<0.025	<0.025	<0.025	<0.025
GC03	GC03-15-B	Bottom	In Place	Confirmation	7/29/2011	15	<0.025	<0.025	<0.025	<0.025	<0.025
GC04	GC04-15-B	Bottom	In Place	Confirmation	7/29/2011	15	<0.025	<0.025	<0.025	<0.025	<0.025
GC05	GC05-15-B	Bottom	In Place	Confirmation	7/29/2011	15	<0.025	<0.025	<0.025	<0.025	<0.025
	GC06-10.5-B	Bottom	Removed	Performance	7/29/2011	10.5	0.059	<0.025	<0.025	<0.025	<0.025
GC06	GC06-13-SWS	Sidewall	Removed	Performance	7/29/2011	13	<0.025	<0.025	<0.025	<0.025	<0.025
GCUB	GC06-12-SWS	Sidewall	Removed	Performance	9/14/2011	12	0.032	<0.025	<0.025		<0.025
	GC06-15-B	Bottom	In Place	Confirmation	9/15/2011	15	<0.025	<0.025	<0.025		<0.025
GC07	GC07-15-B	Bottom	In Place	Confirmation	7/29/2011	15	<0.025	<0.025	<0.025	<0.025	<0.025
GC08	GC08-15-B	Bottom	In Place	Confirmation	7/29/2011	15	<0.025	<0.025	<0.025	<0.025	<0.025
GC09	GC09-15-B	Bottom	In Place	Confirmation	7/29/2011	15	0.057	<0.025	<0.025	<0.025	<0.025
GC10	GC10-15-B	Bottom	In Place	Confirmation	7/29/2011	13	0.025	<0.025	<0.025	<0.025	<0.025
GC11	GC11-13-SWS	Sidewall	Removed	Performance	7/29/2011	10.5	0.029	<0.025	<0.025	<0.025	<0.025
GCII	GC11-17-BF	Bottom of Footing	In Place	Confirmation	9/15/2011	17	<0.025	<0.025	<0.025		<0.025
	GC12-10.5-B	Bottom	Removed	Performance	7/29/2011	10.5	0.028	<0.025	<0.025	<0.025	<0.025
GC12	GC12-12-SWS	Sidewall	Removed	Performance	9/14/2011	12	<0.025	<0.025	<0.025		<0.025
	GC12-15-B	Bottom	In Place	Confirmation	9/15/2011	15	<0.025	<0.025	<0.025		<0.025
GC14	GC14-15-B	Bottom	In Place	Confirmation	7/29/2011	15	<0.025	<0.025	<0.025	<0.025	<0.025
GC15	GC15-15-B	Bottom	In Place	Confirmation	7/29/2011	15	0.069	<0.025	<0.025	<0.025	<0.025
GC16	GC16-15-B	Bottom	Removed	Performance	7/29/2011	15	<0.025	<0.025	<0.025	<0.025	<0.025
6010	GC16-17-BF	Bottom of Footing	In Place	Confirmation	9/15/2011	17	0.048	<0.025	<0.025		<0.025
GC17	GC17-15-B	Bottom	In Place	Confirmation	7/29/2011	15	<0.025	<0.025	<0.025	<0.025	<0.025
6017	GC17-12-SWS	Sidewall	Removed	Performance	8/1/2011	12	<0.025	<0.025	<0.025	<0.025	<0.025
	GC18-11-B	Sidewall	Removed	Performance	8/1/2011	12	0.034	<0.025	<0.025	<0.025	<0.025
GC18	GC18-12-SWSW	Sidewall	Removed	Performance	8/2/2011	12	0.038	<0.025	<0.025	<0.025	<0.025
	GC18-15-BSW	Bottom	In Place	Confirmation	9/15/2011	15	<0.025	<0.025	<0.025		<0.025
	GC19-04-SWSW	Sidewall	Removed	Performance	8/2/2011	4	0.095	<0.025	<0.025	<0.025	<0.025
GC19	GC19-12-SWS	Sidewall	Removed	Performance	9/14/2011	12	<0.025	<0.025	<0.025		<0.025
	GC19-15-B	Bottom	In Place	Confirmation	9/15/2011	15	<0.025	<0.025	<0.025		<0.025
MTCA Cleanup Level	ICA Cleanup Level for Soil							0.03 ⁽²⁾	160 ⁽³⁾	1,600 ⁽³⁾	0.67 ⁽⁴⁾



							Analytical Results ⁽¹⁾ (in milligrams per kilogram)				
Grid Cell Location	Sample ID	Sample Location	Sample Status	Sample Type	Date Sampled	Depth (feet bgs)	PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl Chloride
GC21	GC21-15-B	Bottom	In Place	Confirmation	7/29/2011	15	0.24	<0.025	<0.025	<0.025	<0.025
GC22	GC22-15-B	Bottom	In Place	Confirmation	7/29/2011	15	1.0	0.027	0.025	<0.025	<0.025
GC23	GC23-15-B	Bottom	In Place	Confirmation	7/29/2011	15	0.99	<0.025	0.027	<0.025	<0.025
	GC24-11-B	Sidewall	Removed	Performance	8/1/2011	11	0.54	<0.025	<0.025	<0.025	<0.025
GC24	GC24-12-SWS	Sidewall	Removed	Performance	8/1/2011	12	0.47	<0.025	<0.025	<0.025	<0.025
	GC24-15-B	Bottom	In Place	Confirmation	9/15/2011	15	0.14	<0.025	<0.025		<0.025
GC25	GC25-04-SWS	Sidewall	Removed	Performance	8/2/2011	4	0.15	<0.025	<0.025	<0.025	<0.025
0025	GC25-15-B	Bottom	In Place	Confirmation	9/15/2011	15	0.33	<0.025	<0.025		<0.025
	GC26-5-SWS	Sidewall	Removed	Performance	9/14/2011	5	0.026	<0.025	<0.025		<0.025
GC26	GC26-10-SWS	Sidewall	Removed	Performance	9/14/2011	10	0.337	<0.025	<0.025		<0.025
	GC26-15-BNE	Bottom	In Place	Confirmation	9/15/2011	15	<0.025	<0.025	<0.025		<0.025
GC28	GC28-15-B	Bottom	In Place	Confirmation	7/29/2001	15	0.19	<0.025	<0.025	<0.025	<0.025
GC29	GC29-15-B	Bottom	Removed	Performance	7/29/2011	15	1.1	<0.025	<0.025	<0.025	<0.025
6029	GC29-17-BF	Bottom of Footing	In Place	Confirmation	9/15/2011	17	0.30	<0.025	<0.025		<0.025
	GC30-11.5-B	Sidewall	Removed	Performance	8/1/2011	11.5	0.72	<0.025	<0.025	<0.025	<0.025
GC30	GC30-12-SWSW	Sidewall	Removed	Performance	8/1/2011	12	1.8	<0.025	<0.025	<0.025	<0.025
	GC30-15-B	Bottom	In Place	Confirmation	9/15/2011	15	1.2	<0.025	<0.025		<0.025
	GC31-05-B	Bottom	Removed	Performance	8/2/2011	5	0.14	<0.025	<0.025	<0.025	<0.025
GC31	GC31-09-SWS	Sidewall	Removed	Performance	8/2/2011	9	0.18	<0.025	<0.025	<0.025	<0.025
	GC31-15-B	Bottom	In Place	Confirmation	9/15/2011	15	0.24	<0.025	<0.025		<0.025
GC32	GC32-05-B	Bottom	Removed	Performance	8/2/2011	5	0.14	<0.025	<0.025	<0.025	<0.025
6052	GC32-15-B	Bottom	Removed	Performance	9/15/2011	15	1.2	0.027	<0.025		<0.025
	GC33-05-SWE	Sidewall	Removed	Performance	8/2/2011	5	0.034	<0.025	<0.025	<0.025	<0.025
	GC33-5-SWS	Sidewall	Removed	Performance	8/2/2011	5	<0.025	<0.025	<0.025		<0.025
GC33	GC33-12-B	Bottom	Removed	Performance	8/2/2011	12	0.040	<0.025	<0.025	<0.025	<0.025
6035	GC33-5-SWS	Sidewall	Removed	Performance	9/14/2011	5	0.122	<0.025	<0.025		<0.025
	GC33-10-SWS	Sidewall	Removed	Performance	9/14/2011	10	0.037	<0.025	<0.025		<0.025
	GC33-15-BNE	Bottom	Removed	Performance	9/15/2011	15	0.43	<0.025	<0.025		<0.025
	GC35-11-B	Sidewall	Removed	Performance	8/1/2011	11	0.11	<0.025	<0.025	<0.025	<0.025
GC35	GC35-12-SWW	Sidewall	Removed	Performance	8/1/2011	12	0.19	<0.025	<0.025	<0.025	<0.025
550	GC35-10-SWW	Sidewall	Removed	Performance	9/14/2011	10	0.040	<0.025	<0.025		<0.025
	GC35-15-B	Bottom	In Place	Confirmation	9/15/2011	15	0.048	<0.025	<0.025		<0.025
MTCA Cleanup Level	for Soil						0.05 ⁽²⁾	0.03 ⁽²⁾	160 ⁽³⁾	1,600 ⁽³⁾	0.67 ⁽⁴⁾



								Analy	tical Results ⁽¹⁾ (in millig	rams per kilogram)	
Grid Cell Location	Sample ID	Sample Location	Sample Status	Sample Type	Date Sampled	Depth (feet bgs)	PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl Chloride
	GC36-11-B	Bottom	Removed	Performance	8/1/2011	11	0.21	<0.025	<0.025	<0.025	<0.025
GC36	GC36-12-SWW	Bottom	Removed	Performance	8/1/2011	12	0.55	<0.025	<0.025	<0.025	< 0.025
	GC36-15-B	Bottom	In Place	Confirmation	9/15/2011	15	0.035	<0.025	<0.025		<0.025
	GC37-11.5-B	Bottom	Removed	Performance	8/1/2011	11.5	0.94	<0.025	<0.025	<0.025	<0.025
GC37	GC37-14-B	Bottom	Removed	Performance	8/1/2011	14	0.029	<0.025	<0.025	<0.025	< 0.025
	GC37-15-B	Bottom	In Place	Confirmation	9/15/2011	15	0.097	<0.025	<0.025		<0.025
	GC38-05-B	Bottom	Removed	Performance	8/2/2011	5	<0.025	<0.025	<0.025	<0.025	< 0.025
GC38	GC38-11-SWS	Sidewall	Removed	Performance	8/1/2011	11	0.72	<0.025	<0.025	<0.025	<0.025
	GC38-15-B	Bottom	In Place	Confirmation	9/15/2011	15	0.10	<0.025	<0.025		< 0.025
GC39	GC39-05-B	Bottom	Removed	Performance	8/2/2011	5	0.066	<0.025	<0.025	<0.025	<0.025
9039	GC39-15-B	Bottom	Removed	Performance	9/15/2011	15	0.050	<0.025	<0.025		<0.025
	GC40-05-SWW	Sidewall	Removed	Performance	8/2/2011	5	<0.025	<0.025	<0.025	<0.025	<0.025
GC40	GC40-5-SWS	Sidewall	Removed	Performance	9/14/2011	5	0.099	<0.025	<0.025		<0.025
	GC40-10-SWS	Sidewall	Removed	Performance	9/14/2011	10	0.040	<0.025	<0.025		<0.025
GC41	GC41-12-SWW	Sidewall	In Place	Confirmation	6/22/2012	12	<0.025	<0.03	<0.05	<0.05	<0.05
	GC41-15-B	Bottom	In Place	Confirmation	6/22/2012	15	<0.025	<0.03	<0.05	<0.05	<0.05
6041	GC41-04-SWW	Sidewall	Removed	Performance	8/2/2011	4	<0.025	<0.025	<0.025		<0.025
	GC41-5-SWW	Sidewall	Removed	Performance	9/14/2011	5	<0.025	<0.025	<0.025		<0.025
	GC42-12-SWW	Sidewall	In Place	Confirmation	6/22/2012	12	<0.025	<0.03	<0.05	<0.05	<0.05
	GC42-15-B	Sidewall	In Place	Confirmation	6/12/2012	15	<0.025	<0.03	<0.05	<0.05	<0.05
GC42	GC42-04-SWW	Sidewall	Removed	Performance	8/2/2011	4	<0.025	<0.025	<0.025	<0.025	<0.025
	GC42-10-SWW	Sidewall	Removed	Performance	9/14/2011	10	0.031	<0.025	<0.025		<0.025
	GC42-5-SWW	Sidewall	Removed	Performance	9/14/2011	5	<0.025	<0.025	<0.025		<0.025
	GC43-04-SWW	Sidewall	Removed	Performance	8/1/2011	4	<0.025	<0.025	<0.025		<0.025
GC43	GC43-11-SWW	Sidewall	Removed	Performance	8/1/2011	11	0.94	<0.025	<0.025	<0.025	<0.025
0043	GC43-10-SWW	Sidewall	In Place	Confirmation	9/14/2011	10	<0.025	<0.025	<0.025		<0.025
	GC43-5-SWW	Sidewall	In Place	Confirmation	9/14/2011	5	<0.025	<0.025	<0.025	<0.025	<0.025
	GC44-04-SWW	Sidewall	Removed	Performance	8/2/2011	4	<0.025	<0.025	<0.025	<0.025	<0.025
GC44	GC44-05-B	Bottom	Removed	Performance	8/2/2011	5	<0.025	<0.025	<0.025	<0.025	<0.025
0044	GC44-10-SWW	Sidewall	In Place	Confirmation	9/14/2011	10	<0.025	<0.025	<0.025		<0.025
	GC44-5-SWW	Sidewall	In Place	Confirmation	9/14/2011	5	<0.025	<0.025	<0.025		<0.025
	GC45-03-SWW	Sidewall	Removed	Performance	8/2/2011	3	<0.025	<0.025	<0.025	<0.025	<0.025
GC45	CG45-5-SWW	Sidewall	In Place	Confirmation	9/14/2011	5	<0.025	<0.025	<0.025		<0.025
	GC45-10-SWW	Sidewall	In Place	Confirmation	9/14/2011	10	<0.025	<0.025	<0.025		<0.025
MTCA Cleanup Level	for Soil						0.05 ⁽²⁾	0.03 ⁽²⁾	160 ⁽³⁾	1,600 ⁽³⁾	0.67 ⁽⁴⁾



							Analytical Results ⁽¹⁾ (in milligrams per kilogram)				
Grid Cell Location	Sample ID	Sample Location	Sample Status	Sample Type	Date Sampled	Depth (feet bgs)	PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl Chloride
GC46	GC46-10-SWS	Sidewall	In Place	Confirmation	9/14/2011	10	<0.025	<0.025	<0.025		<0.025
0040	GC46-5-SWS	Sidewall	In Place	Confirmation	9/14/2011	5	<0.025	<0.025	<0.025		<0.025
	GC53-12-SWS	Sidewall	In Place	Confirmation	6/12/2012	12	<0.025	<0.03	<0.05	<0.05	<0.05
GC53	GC53-12-SWW	Sidewall	In Place	Confirmation	6/12/2012	12	<0.025	<0.03	<0.05	<0.05	<0.05
0055	GC53-15-B	Sidewall	In Place	Confirmation	6/12/2012	15	<0.025	<0.03	<0.05	<0.05	<0.05
	GC53-12-SWS	Sidewall	Removed	Performance	6/22/2012	12	<0.025	<0.025	<0.025	<0.025	<0.025
GC54	GC54-12-SWS	Sidewall	In Place	Confirmation	9/14/2011	12	<0.025	<0.025	<0.025	<0.025	<0.025
GC55	GC55-12-SWS	Sidewall	In Place	Confirmation	9/14/2011	12	<0.025	<0.025	<0.025	<0.025	<0.025
	GC56-10-SWS	Sidewall	In Place	Confirmation	7/5/2012	10	<0.025	<0.03	<0.05	<0.05	<0.05
GC56	GC56-17-B	Bottom	In Place	Confirmation	7/5/2012	15	<0.025	<0.03	<0.05	<0.05	<0.05
	GC56-5-SWS	Sidewall	Removed	Performance	9/14/2011	5	0.026	<0.025	<0.025	<0.025	<0.025
GC57	GC57-17-B	Bottom	In Place	Confirmation	7/5/2012	17	<0.025	<0.03	<0.05	<0.05	<0.05
0057	GC57-5-SWS	Sidewall	Removed	Performance	9/14/2011	5	0.122	<0.025	<0.025	<0.025	<0.025
GC58	GC58-15-B	Bottom	In Place	Confirmation	7/5/2012	15	<0.025	<0.03	<0.05	<0.05	<0.05
9638	GC58-5-SWS	Sidewall	Removed	Performance	9/14/2011	5	0.099	<0.025	<0.025	<0.025	<0.025
GC62	GC62-10-SWS	Sidewall	In Place	Confirmation	7/5/2012	5	<0.025	<0.03	<0.05	<0.05	<0.05
0002	GC62-5-SWS	Sidewall	In Place	Confirmation	7/5/2012	10	<0.025	<0.03	<0.05	<0.05	<0.05
GC63	GC63-10-SWS	Sidewall	In Place	Confirmation	7/5/2012	5	<0.025	<0.03	<0.05	<0.05	<0.05
0003	GC63-5-SWS	Sidewall	In Place	Confirmation	7/5/2012	10	<0.025	<0.03	<0.05	<0.05	<0.05
GC64	GC64-5-SWS	Sidewall	In Place	Confirmation	7/5/2012	5	<0.025	<0.03	<0.05	<0.05	<0.05
0004	GC64-10-SWS	Sidewall	In Place	Confirmation	7/5/2012	10	<0.025	<0.03	<0.05	<0.05	<0.05
MTCA Cleanup Level f	TCA Cleanup Level for Soil							0.03 ⁽²⁾	160 ⁽³⁾	1,600 ⁽³⁾	0.67 ⁽⁴⁾

NOTES:

Red denotes concentration exceeds preliminary cleanup level for soil.

Blue denotes concentration is less than the preliminary cleanup level for PCE in soil but greater than the laboratory reporting limit.

Samples analyzed by ESN Northwest of Olympia, Washington, and Friedman & Bruya, Inc. of Seattle, Washington. ⁽¹⁾Analyzed by EPA Method 8260 or 8260C.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Soil Cleanup Levels for Unrestricted Land Uses, revised November 2007.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

⁽⁴⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx. -- = not analyzed

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculations

DCE = dichloroethene

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

TCE = trichloroethene



				Analytic	c al Results⁽¹⁾ (in milliខ្	grams per kilogram)	-
Sample Location	Sample ID	Date Sampled	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
SP-7	SP-7W	05/27/11	< 0.025	< 0.03	< 0.05	< 0.05	< 0.05
51 7	SP7-E	03/2//11	< 0.025	< 0.03	< 0.05	< 0.05	< 0.05
SP8	SP8-W	05/27/11	0.073	< 0.03	< 0.05 ^{jl}	< 0.05	< 0.05
510	SP8-E	03/2//11	0.095	< 0.03	< 0.05 ^{ji}	< 0.05	< 0.05
SP8A	SP8A-W	05/27/11	< 0.025	< 0.03	< 0.05 ^{jl}	< 0.05	< 0.05
JF6A	SP8A-E	03/27/11	< 0.025	< 0.03	< 0.05 ^{ji}	< 0.05	< 0.05
	CSP01-SE-20110601		< 0.025	< 0.03	< 0.05	< 0.05	< 0.05
	CSP01-NE-20110601		< 0.025	< 0.03	< 0.05	< 0.05	< 0.05
	CSP01-N-20110601	06/01/11	< 0.025	< 0.03	< 0.05	< 0.05	< 0.05
CSP01	CSP01-NW-20110601		0.033	< 0.03	< 0.05	< 0.05	< 0.05
	CSP01-SW-20110601		< 0.025	< 0.03	< 0.05	< 0.05	< 0.05
	CSP01-NW2-20110602	06/02/11	< 0.025	< 0.03	< 0.05	< 0.05	< 0.05
	CSP01-NW3-20110602	00/02/11	< 0.025	< 0.03	< 0.05	< 0.05	< 0.05
	SP9-N-20110621		< 0.025	< 0.025	< 0.05	< 0.05	< 0.05
SP9	SP9-E-20110621	06/02/11	< 0.025	< 0.025	< 0.05	< 0.05	< 0.05
	SP9-S-20110621		< 0.025	< 0.025	< 0.05	< 0.05	< 0.05
	SP10-N-20110621		0.033	< 0.025	< 0.05	< 0.05	< 0.05
SP10	SP10-E-20110621	06/02/11	< 0.025	< 0.025	< 0.05	< 0.05	< 0.05
	SP10-S-20110621		< 0.025	< 0.025	< 0.05	< 0.05	< 0.05
	SP-11R-S		0.23	< 0.025	< 0.025	< 0.025	< 0.025
SP-11R	SP-11R-W	08/05/11	0.15	< 0.025	< 0.025	< 0.025	< 0.025
	SP-11R-N		0.072	< 0.025	< 0.025	< 0.025	< 0.025
	SP12-NW		0.043	< 0.025	< 0.025	< 0.025	< 0.025
	SP-12-NE		0.51	< 0.025	< 0.025	< 0.025	< 0.025
SP-12	SP-12-SW	08/05/11	0.51	< 0.025	< 0.025	< 0.025	< 0.025
	SP-12-N		0.092	< 0.025	< 0.025	< 0.025	< 0.025
	SP-12-SE		0.071	< 0.025	< 0.025	< 0.025	< 0.025
oil Disposal Threshold	(Contained-Out Determinat	ion)/MTCA CUL	1.9 ⁽²⁾	0.03 ⁽³⁾	160 ⁽⁴⁾	1,600 ⁽⁴⁾	0.67 ⁽⁵⁾

NOTES:

Samples analyzed by ESN Northwest of Olympia, Washington, and Friedman & Bruya, Inc. of Seattle, Washington. ⁽¹⁾Analyzed by EPA Method 8260 or 8260C.

⁽²⁾Ecology letter to SoundEarth RE: Contained-Out Determination for Soils Contaminated with F002 Listed Dangerous Waste Constituents, dated November 14, 2011.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Soil Cleanup Levels for Unrestricted Land Uses, revised November 2007.

⁽⁴⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

⁽⁵⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

Laboratory Note:

 $^{\mu}$ The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

< = not detected at a concentration exceeding the laboratory reporting limit

CLARC = Cleanup Levels and Risk Calculation

CUL = cleanup level

DCE = dichloroethene

Ecology = Washington State Department of Ecology

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

TCE = trichloroethene

SoundEarth = SoundEarth Strategies, Inc.



Table 5 Summary of Groundwater Analytical Results Construction Dewatering Hearthstone Property 6860 Woodlawn Avenue Northeast Seattle, Washington

			Analytical Results ⁽¹⁾ (micrograms per liter)						
Well ID	Sample Location	Date Sampled	PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl Chloride		
DW01-20110907	Deatering Well	09/07/11	12	<1	<1	<1	<0.2		
DW01-20111123	Deatering Well	11/23/11	5.3	<1	<1		<0.2		
Discharge-20140425	Temporary Discharge Point	04/25/14	<1						
MTCA Cleanup Level for	Groundwater		5 ⁽²⁾	5 ⁽²⁾	16 ⁽³⁾	160 ⁽³⁾	0.2 ⁽⁴⁾		

NOTES:

Red denotes concentration exceeding groundwater cleanup level.

Samples analyzed by Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾Analyzed by EPA Method 8260C.

⁽²⁾MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 720-1 Method A Cleanup Levels for Groundwater, revised November 2007.

⁽³⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

⁽⁴⁾MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Carcinogen, Standard Formula Value, CLARC Website https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

< = not detected at a concentration exceeding the laboratory reporting limit

-- = not analyzed

CLARC = Cleanup Levels and Risk Calculations

DCE = dichloroethene

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

PCE = tetrachloroethene

TCE = trichloroethene



		Analytical Results ⁽¹⁾ (micrograms per liter)								
Wastewater Sample ID	Date Sampled	PCE	TCE	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl Chloride				
BT20110517	05/17/11	<1								
WWBT20110613	06/13/11	8.6	<1	<1	<1	<0.2				
BT20110722	07/22/11	2.2	<1	<1	<1	<0.2				
WPH20110729	07/29/11	77	1.6	2.1	<1.0	<1.0				
WWBT2011 0830	08/30/11	4.9	<1	<1	<1	<0.2				
WBT20110907	09/07/11	3.2	<1	<1	<1	<1				
WWBT20110920	09/20/11	5.8	<1	<1	<1	<0.2				
King County Wastewater	Discharge limits ⁽²⁾	360	NA	280	280	3				

NOTES:

Samples analyzed by ESN Northwest of Olympia, Washington, and Friedman & Bruya, Inc. of Seattle, Washington.

⁽¹⁾Analyzed by EPA Method 8260 or 8260C.

⁽²⁾Threshold per King County Major Discharge Authorization Permit No. 4164-02, March 1, 2011.

< = not detected at a concentration exceeding the laboratory reporting limit

-- = not analyzed

DCE = dichloroethene

EPA = U.S. Environmental Protection Agency

NA = threshold not specified in Discharge Permit

PCE = tetrachloroethene

TCE = trichloroethene

APPENDIX A SOIL DISPOSAL TRACKING TICKETS

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1382487 SITE TICKET GRID RABANCO RECTONAL DISPOSAL 3 482114 000000 P.O. ROX 338 WEIGHMASTER Roosevelt, WA 99356 GHOQOB6 GAIL H (509) 384-5641 DATE IN TIME IN 25 May 2011 2:52 pm DATE OUT TIME OUT 060136 - 0001 25 May 2011 3:32 pm Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF Lutheran Retirement Home of Greater Sea 3450 GCELK26152 REFERENCE ORIGIN Contract: LW-11193 GCEUM26152 Seattle 2 Gross Weight 93,600.00 LB Tare Weight 48,960.00 LB Net Weight 44,640.00 LB 22.32 TN UNIT DESCRIPTION RATE TAX TÓTAL 22.32 TN 62 8453 Contained in Contaminated Boil 05/23/11 Indeand - RAIL TICKET BNSF231034 Smattle 20 - 48 Ft 210492 NET AMOUN 0.00 00 TENDERED CHANGE CHECK NO. SERVICES

1382491 SITE TICKET GRID RABANCO-REGIONAL DISPOSAL 3 482119 000000 F.O. BOX 338 WEIGHMASTER Roosevelt, WA 99356 GHOOO36 GAIL H (509) 984-5641 DATE IN TIME IN 25 May 2011 2:07 pm DATE OUT 25 Mary 2011 TIME OUT 060136 - 0001 Os 82 pan Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF Lutheran Retirement Home of Greater Sea 6182 GCELK-31554 REFERENCE ORIGIN Contract: LW-11193 GCEUMBLERA Seattle 69,960.00 LB 1 Gross Weight Tare Weight 47,560.00 LB 42,400.00 LB 21.20 TN Net Weight QTY. UNIT DESCRIPTION RATE EXTENSION TAX TOTAL 51°50 ĩΝ 67 0450 Contained in Contaminated Soil 05/23/11 Inbound - RAIL TICKET BNSF231034 Seattle 20 - 48 Ft 2104-30 NET AMOUN 0.00 YD TENDERED CHANGE CHECK NO. SERVICES SIGNATURE RS-F04-4 REV 11/09

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RABANCO REGIONAL DISPOSAL

Roosevelt, WA 99356 (509) 384-5641

Contract: LW-11193

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Contract			•	: 		REFERENCE GODELIA		origin Scent	tle	4		
		100,520.00				•						
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RABANCO REGIONAL DISPÓSAL	SITE TICKET GRID 3 4-93028	- ,
P.O. BOX 339	WEIGHMASTER	
Roceevelt, WA 99356 (509) 384-5641	GHOOOGE GAIL H	
NAME & A CARD & CARD FOR	30 May 2011 8:33 am	
A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2	DATE OUT TIME OUT	
060136 - 0001 Lutheran Retirément Home of Greater Sea	VEHICLE ROLL OFF	. ·
Lutheran Retirement Home of Breaker Sea	6181 OCEU435218	}
Contract: LW-11193	REFERENCE ORIGIN CILEU4-35216 Seattle	
1 Gross Weight S5,980.00 LB Tare Weight 46,540.00 LB Net Weight 39,440.00 LB 19.72 TN GTY. 0NT DESCRIPTION	RATE EXTENSION TAX TOT.	<u></u>
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1400411

SITE TICKET GRID RADANCO RECITIVAL DISPOSAL З 483026 000000 P.O. BOX 338 WEIGHMASTER Roosevelt, WA 99356 0H00036 0ATL H (509) 384-5641 DATE IN TIME IN 30 May 2011 8s27 am DATE OUT TIME OUT 060136 - 0001 30 May 2011 Satto am Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF Lutheran Retirement Home of Greater Sea 8648 OCEU431342 REFERENCE ORIGIN Contract: LW-11193 GCELK-31.342 Swattle 92,660.00 LB 1 Gross Weight 41,860.00 LB Tare Weight Net Weight 50,800.00 LB 25.40 TN UNIT DESCRIPTION RATE EXTENSION TAX TOTAL 25.40 M 67 10450 Contained in Contaminated Soil 05/25/11 Incound - RAIL TICKET ENSF230120 Seattle 20 - 48 Ft 21054-9 O, OO YD TENDERED CHANGE CHECK NO.



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Foosevelt, WA 9925	4	GHOOQ36 GATL H	WEIGHMASTER
(509) 384-5641		DATE IN	TIME IN
		30 May 2011	6:51. am
060136 - 0001		DATE OUT	TIME OUT
	t Home of Greater Sea	30 Milly 201.1. Vehicle	Stall ann ROLL OFF
	L Home of Greater Sea	1 .	CCEL4-25919
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Contract: 1W-11193		GCEL/4/25919 See	tttm .
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(509) 384-564	<u>.</u>		•	DATE IN SC Mag	y 2011	-81	time in 1500 avri		
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P.O. BOX 398 Roosevelt, WA 99356	WEIGHMASTER
(509) 384-5641	DATE IN TIME IN SHOT 201.1 8:55 SUT
080136 - 0001	DATE OUT TIME OUT 30 May 2011 9:14 am
Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea	VEHICLE ROLL OFF 7327 TOLLIA-555702
Contract: LW-11193	REFERENCE TOLU456206 Seattle
1 Gross Weight 100,240.00 LB Tare Weight 48,680.00 LB Net Weight 51,560.00 LB 25.78 TN	
ATY. UNIT DESCRIPTION	RATE EXTENSION TAX TOTAL
25.78 TN 67 C453 Contained in Con	aminated Soil
05/26/11	
Intround - RAIL TICKET BNSF230062	

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060136 - 0001	30 May 2011 9:18 am
Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea	VEHICLE ROLL OFF 681.1 TOLLU4588999
Contract: LW-11193	TOLU458899 Seattle
1 Gross Weight 100,960.00 LB Tare Weight 47,900.00 LB Net Weight 53,060.00 LB 26.53 TN	
QTY UNIT DESCRIPTION	RATE EXTENSION TAX TOTAL
24.53 TN 67 E453 Contained in Cor	taminated Soil
05/25/11	
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P.O. BOX 388 Roosevelt, WA	99:85A		GHOOO	36 GATL 14	WEIGHMASTER	3	
(507) 384-564			DATE IN		TIME		
· · · · ·		· · · · ·		ay 2013	7:47	-	
060136 - 0001	· ·		DATE OUT	2 2011	TIME (Str C 2 - a		
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Contract: LW-	11193		1 .	57714 Seia	ttle		
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	onal Disposal		SITE	TICKET 48:300*			
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(309) 394-544		• •		DATE IN	· · · · ·		TIME IN	
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Lutheran Reti				7387		:	ROLL OFF	466636
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	51,480.00	LUS LUS 23.74		RATE		EXTENSION	TAX	TOTAL
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F.O. BOX 338 Roosevelt, WA 9	ффиција,	6400036		MASTER	
(509) 384-5641	e di notradian	DATE IN		TIME IN	· · ·
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1 Gross Weight	97,520.00 LB		· · ·	· · ·	
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060136 - 000 Lutheran Ret	irement Home	of Greater	Sea		ne 201	.t. 2	E 1 9 Can	
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Nort Weigh any. 22.15 TN	t 44,300.00 67 [45] 31/11 Inbourd - BNSF23118 Seattle 2 210601	LB 22.15 TN DESCRIPTION Contained i - RAIL TICKE 25 - 48 Ft	n Cont	<u> </u>			XAT	

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rP.O. 20 Rooseve		99356		<i>.</i>	01-100036	WEIG GATI H	HMASTER	
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Luthera	n Reti	rement Hon	e of Greater	anna Sean	VEHICLE 61.80		ROLL OFF	464002
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	Wwight	41,820.0	O LB		PATE	EXTENSION	TAX	TOTAL
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(509) 384-5641		DATEIN 2 JUINE 201;	TIME IN	4
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Lutheran Retireme	ent Home of Greater Se	ea 6182	ROLL C	TOLUMSION
Contract: LW-1119	2 9	TOLU453547	an Geattle	
Tare Weight 42	2, 380, 00 LB 2, 780, 00 LB 2, 600, 00 LB 24, 80 TN Description	PATE	FENSION	TAX TOTAL
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FABANCO REGIO P.O. ROX 338	NAL DISFOSAL		et 483950	GRID	xo
 Koosevelt, W (507) 384-564 	99356	1	36 GAIL H	GHMASTER	
e e e e e e e e e e e e e e e e e e e			ne 2011	1 s 552 pm	
060136 - 0001 Luthéran Reti	rement Home of Greater Sea		e 2011 - 2	TIME OUT	-
	rement Home of Greater Sea	3450 REFERENCE	ORIGIN	ROLL OFF OCEL	426152
Contract: LW-	11193		26152 Seatt	10	
1 Gross Weight Tare Weight Net Weight	48,420,00 LB				
QTY. UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
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	and a second	2499 8473 -			CHANGE
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Luthera	n Retirement Ha	ome of Greater Sea me of Greater Sea	DATE OUT 2 June 201.1 Vehicle 72331 Reference OCIEU/431554 Seau	EIGIT EIG BOLL OFF GCELV4-31/5554
	Jeight 47,480.	00 LB 00 LB 23.10 TN	RATE	ON TAX TOTAL
23.10	TN 67 E450 05/31/11 Inbour BNSF23	Contained in Con ad - RAIL TICKET	rtami nactes: Soi. I.	
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060136 - 0001 Lutheran Retire	www.ed Uccess and	The second second second	2 June 20	11 3x1	TIME OUT	·
Lutheran Retire		7	VEHICLE 6180		ROLL OFF	K-69514
Contract: LW-11	199		REFERENCE TOLU4-6851	Grigin Gesattla	>	
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Roosevelt, WA 97356 (509) 384-5641 /		1	тме IN : OS pan
060136 - 0001 Lutheran Retirement Home of Lutheran Retirement Home of		DATE OUT 22 June 2011 2: VEHICLE 9951	TIME OUT 25 pm Roll Off OCE3426125
Contract: LW-11193		REFERENCE ORIGIN GCEL426125 Seartile	ł
1 Gross Weight 105,620.00 LB Tare Weight 50,480.00 LB Net Weight 55,140.00 LB	27.57 TN		
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(509) 384-564			CHOOO36 DATE IN 22 June	» 2011	TIME IN 1:39 pm	
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Contractur LW-	11193			onigin Seattle	ф 	
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### 1375186 SITE TICKET GRID RABANCO REGIONAL DISPOSAL З 488791 000000 P.O. BOX 333 WEIGHMASTER JF00025 JANIGE F Roosevelt, WA 99356 (509) 384-5641 DATE IN TIME IN 25 June 2011 3:40 pm DATE OUT TIME OUT 060136 - 0001 25 June 2011 4 s 1 1 pm Lutheran Retigement Home of Greater Sea Lutheran Retifement Home of Greater Sea VEHICLE ROLL OFF 995X GCEU4,32020 REFERENCE ORIGIN ~ Contract/s LW-11193 GCEU4-32020 Seattle 1 Gross Weight 99,300.00 LB Tare Weight 46,520.00 LB 52,780.00 LB 26.39 TN Net Weight ੇ ਪਿਲੀਸ ÓTÝ. DESCRIPTION HATE EXTENSION TAX TOTAL 26.39 TN 67 6453 Contained in Contaminated Boil 06/21/11 Inbound - RAIL TICKET BNSF231071 Seattle 20 - 48 Ft 21.1681 NET AMOUN 0.00 YD ~ 15 14 TENDERED CHANGE CHECK NO.

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060136 - 0001 Lutheran Retirement Home (	ne di Marian ne da mara - Maria	22 Jun	e 2011	BITME OUT	<u></u>
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (509) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 105,220.00 LB Tare Weight 46,240.00 LB Net Weight 58,980.00 LB 29.49 TN

Næt, I	Weight	58,980,00	LB 29.49 1	ΓN				
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SITE TICKET GRID Э 489699 000000 WEIGHMASTER JF00025 JANICE F DATE IN TIME IN 30 June 2011 11:59 am DATE OUT TIME OUT 30 June 2011 12:24 pm VEHICLE ROLL OFF 2330 TOLU4-60605 REFERENCE ORIGIN TOLU4-6060\$ Seattle

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060136 - 0001 Lutheran Retirement Home of Greater Sea		TIME OUT
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Contract: LW-11193	GCEU4-35259 Seatt:	.e ,
1 Gross Weight 106,220.00 LB Tare Weight 48,760.00 LB Net Weight 57,460.00 LB 28.73 TN		· · · · ·
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3 <b>2. 85</b>	07/27/11 Inbou BNSF3 Swatt 21124	und - RAIL TICKET 31044 Ja 20 - 49 Ft 1	rrtæni næt	ød Soij.			NET AMOU
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Contract: LW-11193		REFERÈN COCEI		ORIGIN (* Sharett)	e.	
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♥ (* ML DISPOSAL 97356

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 97356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193 1 Gross Weight 97,420.00 LB Tare Weight 40,880.00 LB Net Weight 56,540.00 LB 28,27 TN

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O August 2011

ORIGIN

3 August 2011



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TIME IN

8:36 am

TIME OUT

ROLL OFF

8:58 am

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Tame Weight 46,300. Net Weight 63,360. OTV UNIT 63,360. OTV 67 E453 07/27/11 Inbour BNSF23 Seatt1 211245	00 LB 31.68 Tr DESCRIPTION Contained i Contained i 1182 e 20 - 48 Ft	in Conta		Soi		DN	TAX		<u> </u>
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 92356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 113,740.00 LB Tare Weight 45,740.00 LB Net Weight 68,000.00 LB 34.00 TM

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RABAÑCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 96,440.00 LB Tare Weight 46,020.00 LB Net Weight 50,420.00 LB 25.21 TN

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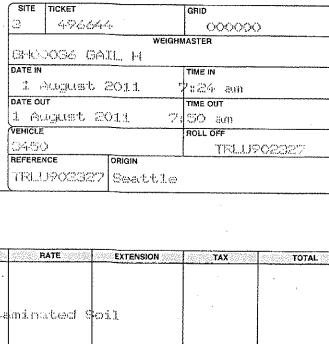
RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99856 (506) 384-5341

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 102,240.00 LB Tare Weight 47,400.00 LB Net Weight 54,840.00 LB 27.42 TN

intert the	eight 34,84	0.00 LB 27.42 TN					
ατγ,	UNIT	DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
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(506) 384-5641		DATE IN 1. ALLOGLIBIC 201.1.	time in '2 r O3 aun
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Contract: LW-11193		GOEU4632025 Swartt	1.00
Gross Veight 104,900.0 Tare Veight 46,980.0	O LB	· · ·	
Net Weight 57,920.0	C. 1770 MICH ACO 1166		
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Net Weight 57,920.0		RATE EXTENSION	TAX TOTAL
Net Weight 57,920.0			TAX TOTAL
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Net Weight 57,920.0	Contsined in Con - FAIL TICKET		TAX TOTAL



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### 1523065 SITE TICKET GRID RABANCO REGIONAL DISPOSAL 3 496677 000000 F.O. BOX 339 WEIGHMASTER Roosevelt, WA 99356 CHOOCOG GATL H (306) 384-5641 DATE IN TIME IN 1 August 2011 \$:23 am DATE OUT TIME OUT 060436 - 0001 1 August 2011 8:57 am Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF Lutheran Retirement Home of Greater Sea 1.0RABLAGO753 REFERENCE ORIGIN RABU4-807256 Contract: LM-11193 Swattle t Gross Weight 91.080.00 LB Tare Weight 44,360.00 LB 46,720.00 LB 23.96 TN Net Weight UNIT DESCRIPTION QTY. RATE EXTENSION TAX TOTAL - 223. 325 ΥN. 67 6431 Contained in Contaminated Soil 07/28/11 Intraund - RAIL TICKET BMSF231163+ Seattle 20 - 48 Ft 211300 NET AMOUN 0.00 YD TENDERED CHANGE

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ater Swa 39 TN	3 44 OHOOOS DATE IN 1. ALUGR DATE OUT 1. ALUGR VEHICLE 995.1 REFERENCE GCELJ444	96634 6 GAIL 14 ust 2011 st 2011	GRID OOOC WEIGHMASTER TIME IN 7 s 1.8 aum 7 s 1.8 aum	)00
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Roosevelt, (506) 384-5			1	GAIL H st 2011	TIME IN	·····
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Roosevelt, WA (506) 384-564			GHOOOB6 (361) date in 1. Ougusst: 2	<u>Ι.,</u> ΙΙ ΠΙΜ	ein 28 aun	
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	rement Hone of Gre		PREFERENCE	RIGIN Swattle	OCEU4-2	2.5.1.52
1 Oross Weight Tare Weight Net Weight	94,500,00 LB 46,420.00 LB 48,030.00 LB 24. Description		FATE	EXTENSION	TAX	TOTAL
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	Retirement Ho	me of Greater Sea me of Greater Sea	DATE OUT 1. Augulist 201 VEHICLE 683.1.1	TIME C	ыт Элп
Contract	a LW-11193	· ·	TOLU469912 S	≫att1∞	
Tarne W Next W	eight 115,820. eight 47,040. eight 68,780.	OO LE 34.32 TN Description	RATE	XTENSION	TAX
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28.35 TN 67 [45] Contained in Contaminated Soil	C.505
P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641 060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Contract: LW-11193 1 Gress Weight 102,620.00 LB Tare Weight 45,920.00 LB Tare Weight 56,700.00 LB 28.35 TN OTX 07X 28.35 TN 67 E453 Contained in Contaminated Soil 07/28/11	
Roosevelt, WA 99356 (S06) 384-5641     BHC0036 GAIL H       060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea     I August 2011 5:23 am       Contract: LW-11193     Time or GCEL43K       1 Gross Weight 102,620.00 LB Net Weight 56,700.00 LB 28.35 TN     Rate       Orv     UNT     Description       RATE     Extension       07/28/11     Contained in Contaminated Soil	
060136 - 0001     i. August 2011     5:23 cm       Lutheran Retirement Home of Greater Sea     i. August 2011     7:10 cm       Lutheran Retirement Home of Greater Sea     VEHICLE     Roll off       Contract: LW-11193     GCELV4:06:05     Gettle       I. Gross Weight 102,620.00 LB     GCELV4:06:05     Gettle       Net Weight 56,700.00 LB     28.35 TN     FATE     Extension       077     UNT     DESCRIPTION     FATE     Extension       077/29/11     67 E453     Contained in Containsted Soil     501	
OGO136 - 0001     DATE OUT     TIME OUT       Lutheran Retirement Home of Greater Sea     August 2011     7:10 am       Lutheran Retirement Home of Greater Sea     ROLL OFF       Contract: LW-11193     GCEU430605     GCEU430       I. Gross Weight 102,620.00 LB     Reference     ORIGIN       I. Gross Weight 102,620.00 LB     B     Seattle       Net Weight 56,700.00 LB 28.35 TN     OFF     TAX       Orv.     UNIT     DESCRIPTION     RATE       28.35     TN     67 E453     Contained in Containsted Soil       07/28//11     07/28//11     GOTA     GOTA	
Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Contract: LW-11193 Contract:	
Lutheran Retirement Home of Greater Sea       7330       GCEU430         Contract: LW-11193       GCEU4306005       Seattle         Gross Weight 102,620.00 LB       GCEU4306005       Seattle         Tare Weight 56,700.00 LB 28.35 TN       Mater Sea       Tax         Orv       UNT       DESCRIPTION       Rate       Extension         28.35       Th       67 E453       Contained in Containsted Soil       01         077/28/11       077/28/11       GCEU430       Soil       GCEU430	
Reference       ORIGIN         Contract: LW-11193       CCEU430605       Seattle         . Gross Weight 102,620.00 LB       Tare Weight 55,920.00 LB       Seattle         Net Weight 56,700.00 LB 28.35 TN       Rate       Extension         OTY.       UNIT       DESCRIPTION       Rate       Extension         28.35       TN       67 E453       Contained in Containated foil       01         077/28/11       077/28/11       Contained in Containated foil       Fate       Fate	
Bross Weight 102,620.00 LB Tare Weight 45,920.00 LB Net Weight 56,700.00 LB 28.05 TN OTY. UNIT DESCRIPTION RATE EXTENSION TAX 28.35 TN 67 E453 Contained in Contaminated Soil 072/28/11	
Tare Weight 45,920.00 LB       Net Weight 56,700.00 LB 28.35 TN       Met Weight 56,700.00 LB 28.35 TN       OTY.     Extension       DESCRIPTION       RATE       Extension       DESCRIPTION       RATE       Extension       DESCRIPTION       RATE       Extension       DESCRIPTION       RATE       Extension       DESCRIPTION       PA       62 E453       Contained in Contaminated Soil       O72/28/11	TOTAL
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RABANCO REISIONAL DISPOSAL P.O. BOX 398 Roosevelt, WA 99356 (506) 394-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LU-11193

1 Gross Weight 94,960.00 LB Tare Weight 39,300.00 LB Net Weight 55,660.00 LB 27.83 TM

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(506) 384-5641.			August	2011	TIME IN	m
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Lutheran Retirement Home o Lutheran Retirement Home o		VEHICLE 732			ROLL OFF	3.4635627
Contract: LW-11193	,	REFERE	nce UM-23527	origin Scartt	L @	
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 (506) 384-5641
 2 August 2011

 Date IN
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aller an	I ISBULI	rement Home of Greater Sea	22782.5 REFERENCE	ORIGIN	TRLUS	202854
Contract	an Like-1	1193	1	34 Seattle		
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Tare b		37,280.00 LB				
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	an Connacionada			2011	1. ± 21. (56)	
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Lutheran Retirement Home of		of Greater Sea	GOX83 Reference	ORIGIN	TOLU	<u>r67881</u>
Contract: LW-11193			TOLU4-67881 Seattle			
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Roosevelt, WA 99356		GHOOOS6 GAIL		
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Roosevelt, WA 99356	*	GH00036 GA			
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, UA 99356 (306) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

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Contract: LW-11193

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060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

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Contract	t: LW-11193	· · ·	TOLIKES	ORIGIN 751 Seattle		
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- 060136 - 000 Lutheran Ret		• of Greater's		8 Septem	ber 2011	3 <b>#5</b> 7 p	m
		of Greater S	ien.	VEHICLE 1565		ROLL OFF OCIELI	425421
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Contract: LW-11193		GCEU420206 Seatt1	Lœ
1 Gross Weight 104,100. Tare Weight 46,560. Net Weight 57,540.	.00 L.B		
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(506) 384-5641		DATE IN	enter 2011		
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Lutheran Retirement Home of (	Greater Sea	123 Reference	ORIGIN	TOL	.45771.1
Contract: LW-11193		TOL.U457	211 Seattle	<b>2</b>	•
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	lt, WA 99356		JFO	XX255	JANICE F	ASTER	
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	n Retirement Home n Retirement Home		VEHICLE 123			ROLL OFF TCR.1.	422004
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Roosevelt, WA 99356 (506) 384-5641		JF-00025	JANICE F	MASTER	
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. 060136 - 000 Lutheran Rat		e of Greater Sea	1	mber 2011	TIME OUT Ba 33 au	'n
		e of Greater Sea e of Greater Sea	VENICLE 9949		ROLL OFF	426879
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	nt 40,460.00 nt 53,800.0	0 LB 26.90 TN			(?) TAX	TOTAL
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JF00025 JANICE F

9 September 2011

9 September 2011

ORIGIN

Seattle

RABANCO REDIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

- br

Contract: LW-11193

91,500.00 LB. 1 Gross Weight 37,960,00 LB Tare Weight المحاصر فرجعا والمحما يق *******

QTY.	<u>UNIT</u>		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
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RABANCO REGIONAL DISFOSAL	SITE TICKET	
P.O. BOX 338 Roosevelt, WA 99356	JFOODES JANICE P	EIGHMASTER
(506) 384-5641	DATE IN	TIME IN
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060136 - 0001	9 September 2011	9#13 an
Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea	VEHICLE 1.21	BOLL OFF GCELIA 335506
Contract: LW-11193	BEFERENCE ORIGIN GCEU433506 Seatt	.le
1 Gross Weight 92,700.00 LB Tare Weight 40,080.00 LB Net Weight 52,620.00 LB 26.31 TN		
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	, WA 99356		JF00025		MASTER	
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	Retirement Home o Retirement Home o		VEHICLE 8648		ROLL OFF	459051
and we was a second a	LW-11193		REFERENCE	ORIGIN		
1 Gross We Tare We	ight 107,990.00 L1 ight 47,740.00 L1	B	TOLU4590	51 Seattle	• · · · · · · · · · · · · · · · · · · ·	
1. Gross We Tare We Net We	ight 107,990.00 Ll ight 47,740.00 Ll ight 60,240.00 Ll uwr	B	RATE	EXTENSION	TAX	TOTAL
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1 Gross We Tare We Net We Orr.	ight 107,990.00 Ll ight 47,740.00 Ll ight 60,240.00 Ll umr PE TN 67 E453 Co 09/07/11 Inbound - 1 BNSF231175 Seattle 20 211408	B B 30.12 TN <u>scription</u> ontained in Co RAIL TICKET - 48 Ft	RATE	EXTENSION	· · · · · · · · · · · · · · · · · · ·	



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RABANCO REE P.O. BOX 33	STONAL DISPOSAL			іскет 5061.1			>0·
Roosevelt,	WA 99356		1	025 JA	WEIGH	MASTER	
(506) 334-3	3(34) J.		1	•	er 2011	TIME IN 1:11	[:m]
060136 - 00		· · · · · · · · · · · · · · · · · · ·	ų ·		m 2011	TIME OUT 1 # 355	2431
	etirement Home stirement Home		VEHICLE 9951		****	ROLL OFF	M-32044
Contract: L	.w-11193		REFERENC GCEU	e 432044	origin Seattle		
and the second							
Tare Weig	yht 104,580.00 yht 47,240.00 jht 57,340.00 M	LB	PÁ	TE	EXTENSION	TAX	TOTAL
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Tare Weig Net Weig ON 28.67 Th	ht 47,240.00 ht 572,340.00 67 [45] 7/07/11 Inbound - DTTX43013 Seattle 2 211389	LB LB 28.67 TN DESCRIPTION Contained in Cor RAIL TICKET 8 0 - 48 Ft				TAX	
Tare Weig Net Weig ON 28.67 Th	ht 47,240.00 ht 572,340.00 67 [45] 7/07/11 Inbound - DTTX43013 Seattle 2 211389	LB LB 28.67 TN DESCRIPTION Contained in Cor RAIL TICKET 8 0 - 48 Ft				TAX	NET AMOUNT

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RABANCO REGIONAL DISPOSA	1	SITE	TICKET 5061		GRID	
P.O. ROX 338	3400	467			00000 MASTER	ж <u>у</u>
Roosevelt, WA 99356	· · · · ·	JFC	0025 3	ANICE F		
(506) 384-5641	2 21 - 11 - 12 - 12 - 12 - 12 - 12 - 12	DATE IN		wer 2011	TIME IN	1
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Lutheran Retirement Home		VEHICLI			ROLL OFF	
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Contract: LW-11193		1	LM-95ZX			
1 Gross Weight 103,240,00 Tare Weight 45,980.00	L.E					
Tare Weight 45,980.00 Net Weight 57,260.00	LB 28.63 TN			·····		
Tare Weight 45,980.00 Net Weight 57,260.00	L.E		RATE	EXTENSION	TAX	TOTAL
Tare Weight 45,980.00 Net Weight 57,260.00	LB 28.63 TN			·····		TOTAL
Tare Weight 45,980.00 Net Weight 57,260.00	LB 28.63 TN		RATE	EXTENSION		TOTAL
Tare Weight 45,980.00 Net Weight 57,260.00	LB LB 23.63 TN Description		RATE	EXTENSION		TOTAL
Tare Weight 45,980.00 Net Weight 57,260.00 on 001 28.63 TN 67 E453	LB LB 23.63 TN Description		RATE	EXTENSION		TOTAL
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Tare Weight 45,980.00 Net Weight 57,260.00 000 28.63 TN 67 E453 09/07/11 Inbound DTTX4301:	LB LB 28.63 TN DESCRIPTION Contained in Cor - RAIL TICKET 38		RATE	EXTENSION		TOTAL
Tare Weight 45,980.00 Net Weight 57,260.00 000 28.63 TN 67 E453 09/07/11 Inbound DTTX4301:	LB LB 28.63 TN DESCRIPTION Contained in Cor - RAIL TICKET		RATE	EXTENSION		TOTAL
Tare Weight 45,980.00 Net Weight 57,260.00 007 28.63 TN 67 [45] 09/07/11 Inbound DTTX4301: Seattle 3 211153	LB LB 28.63 TN DESCRIPTION Contained in Cor - RAIL TICKET 38 20 - 48 Ft		RATE	EXTENSION		
Tare Weight 45,980.00 Net Weight 57,260.00 007 28.63 TN 67 [45] 09/07/11 Inbound DTTX4301: Seattle 3 211153	LB LB 28.63 TN DESCRIPTION Contained in Cor - RAIL TICKET 38		RATE	EXTENSION		
Tare Weight 45,980.00 Net Weight 57,260.00 007 28.63 TN 67 [45] 09/07/11 Inbound DTTX4301: Seattle 3 211153	LB LB 28.63 TN DESCRIPTION Contained in Cor - RAIL TICKET 38 20 - 48 Ft		RATE	EXTENSION		
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Tare Weight 45,980.00 Net Weight 57,260.00 007 28.63 TN 67 [45] 09/07/11 Inbound DTTX4301: Seattle 3 211153	LB LB 28.63 TN DESCRIPTION Contained in Cor - RAIL TICKET 38 20 - 48 Ft		RATE	EXTENSION		NET AMOUNT

REV 11/09

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RABANCO REGIONAL DISPOSAL P.O. BOX 335	SITE TICKET	
Roosevelt, WA 99356 (506) 384-5641	JF00025 JANICE F	
	9 September 2011 DATE OUT	1 #21 pm
060136 - 0001 Lutheran Retirement Home of Greater Sea	9 September 2011	1.1444 parts Roll OFF
Lutheran Ketirement Home of Greater Sea Contract: LW-11193	6181 REFERENCE ORIGIN ICSL464073 Seatt1	ICSU464073
1 Gross Weight 100,060.00 LB Tare Weight 45,880.00 LB Net Weight 54,180.00 LB 27.09 TN	PATE EXTENSION	TAX TOTAL
22.09 TN 67 [45] Contained in Com 09/07/11 Inbound - RAIL TICKET DTTX430138 Seattle 20 - 48 Ft		TAX TOTAL
211391 0.00 YD		NET AMOUNT
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REPUBLIC SERVICES		CHECK NO.

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REV 11/09

1527440 TICKET SITE GRID RABANCO REGIONAL 506136 З 000000 P.O. BOX 338 WEIGHMASTER Roosevelt, WA 99356 JF00025 JANICE F (506) 384-5641 DATE IN TIME IN 9 September 2011 1:42 cm Pare out 9 September 2011 TIME OUT 060136 - 0001 2:03 pm Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF Lutheran Retirement Home of Greater Sea 121 60EL431461 REFERENCE ORIGIN Contract: LW-11193 GCEU431461 Seattle 1 Gross Weight 94,120.00 LB 37,880.00 LB Tare Weight Net Weight 56,240.00 LB 28.12 TN OTY. UNIT DESCRIPTION RATE EXTENSION TAX TOTAL 「「「「「「」」」 67 [45] 28.12 TN Contained in Contaminated Soil 09/07/11 Inbound - RAIL TICKET . Ale DTTX430138 Seattle 20 - 48 Ft 211399 NET AMOU 0.00 YD TENDERED CHANGE CHECK NO. SERVICES SIGNATURE _

REV 11/09

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RABANCO REGIONAL DISPOSAL	•	SITE TICKET	¥8		\$
P.O. BOX 338 Roosevelt, WA 99356	•	JF00025 J4		MASTER	
(506) 384-5641	ê	DATE IN 9 Septemb	er 2011	TIME IN 1 # 45	(1)/f3)
060136 - 0001		DATE OUT 9 September	n 2011	TIME OUT 2807 p	ín .
Lutheran Retirement Home Lutheran Retirement Home		Vehicle	-	ROLL OFF GCEU	4320255
Contract: LW-11193		REFERENCE GCEUA-32025	origin Searttle	•	
1 Gross Weight 96,560.00					
Tare Weight 40,000.00				· · · ·	
Tare Weight 40,000.00   Net Weight 56,560.00		PATE	EXTENSION	TAX	total-
Tarre Weight 40,000.00   Net Weight 56,560.00   28.28 TN 67 [45]   09/07/11	LB LB 28.28 TN Description Contacined in Cor RAIL TICKET B			TAX	TOTAL
Tarre Weight 40,000.00   Net Weight 56,560.00   any UNF 28.28 TN 67 [45]   09/07/11 Inbound DTTX43013	_B _B 28.28 TN <u>pesception</u> Contained in Cor RAIL TICKET 3 2 - 48 Ft			TAX	TOTAL NET AMOUNT
Tarre Weight 40,000.00   Net Weight 56,560.00   28.28 TN 67 [45] 0 09/07/11 Inbound - DTTX43013 Seattle 2 211400	_B _B 28.28 TN <u>pesception</u> Contained in Cor RAIL TICKET 3 2 - 48 Ft				
Tare Weight 40,000.00   Net Weight 56,560.00   arr UNIT 28.28 TN 67 [45] 0 09/07/11 Inbound - DTTX43013 Seattle 2 211400	_B _B 28.28 TN <u>pesception</u> Contained in Cor RAIL TICKET 3 2 - 48 Ft			TAX	NET AMOUNT

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	REGIONAL DISPUSAL		3 TICKET			
	1t, WA 99356		JF00025	JANICE F	MASTER	
(506) 3	"364-m."DA969- <b>I</b> .		DATE IN 9 Sequetae	mber 2011	TIME IN 2:16 p	41) [°]
060136		A	DATE OUT 9 Septem	ber 2011	TIME OUT 2142 pm	
	n Retirement Home n Retirement Home		VEHICLE 2786	**************************************	ROLL OFF	51989
Contrac	t: LW-11193		REFERENCE TOLLMS19	ORIGIN 89 Seattle		***********
Net 1	Weight 61,980.00	LB 30. 99 TN Description	RATE	EXTENSION	TAX	TOTAL
30, 99		Contained in Con	temi nated	Soil		
	DTTX4301.3	- RAIL TICKET 38 20 - 48 Ft		· ·		,
	DTTX43013 Seattle 2 211404	38				NET AMOUN

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RABANCO REGIONAL DISPOSAL	n.	SITE TICKET	61,65	GBID OCOCOC	xo
F.O. BOX 338 Rocsevelt, WA 99356	• .	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	·····	MASTER	· · ·
(506) 384-5641		DATE IN 9 Septe	ember 2011	TIME IN 2 ti Korije	gan
060136 - 0001		DATE OUT 9 Seepsteen	nber 2011	TIME OUT CB & O22 pt	411
Lutheran Retirement Home Lutheran Retirement Home				ROLL OFF	425464
Contract: LW-11193		REFERENCE CRIER MARE	ORIGIN 64 Seattle		
Tare Weight 36,240.00					
Net Weight 59,000.00	LB 29.50 TN	RATE	EXTENSION	TAX	TOTAL
Net Weight         59,000.00           anv.         unit           29.50         TN         67 [453]			EXTENSION Scoli 1	<b>XAT</b>	TOTAL
Net Weight 59,000.00 an. UNIT 29.50 TN 67 [453 09/07/11 Inbound - ENSF23012	LB 29.50 TN Description Contained in Co - RAIL TICKET			TAX	TOTAL
Net Weight 59,000.00 an. UNIT 29.50 TN 67 [453 09/07/11 Inbound - ENSF23012	LB 29.30 TN DESCRIPTION Contained in Co - RAIL TICKET 20 20 - 48 Ft			TAX	NET AMOUNT
Net Weight 59,000.00 orv. 0NIT 29.50 TN 67 [45] 09/07/11 Inbound - PNSF23012 Seattle 3 211398	LB 29.30 TN DESCRIPTION Contained in Co - RAIL TICKET 20 20 - 48 Ft			TAX	
Net Weight 59,000.00 orv. 0NIT 29.50 TN 67 [45] 09/07/11 Inbound - PNSF23012 Seattle 3 211398	LB 29.30 TN DESCRIPTION Contained in Co - RAIL TICKET 20 20 - 48 Ft			TAX	NET AMOUNT

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RABANCO REGIONAL DISFOSAL	SITE TICKET 3 SO6335	GRID COCOCO
F.O. 10X 338 Roosevelt, WA 99356	JF00025 JANICE F	ASTER
(506) 384-5641	10 September 2011	12#26 pm
060136 - 0001 Lutheran Retirement Home of Greater Sea	10 September 2011	TIME OUT 12:47 pm
Lutheran Retifement Home of Greater Sea	VEHICLE 1566 REFERENCE ORIGIN	ROLL OFF RABLIA803377
Contract: LW-11193	RAEU480357 Seattle	
1 Gross Weight 103,060.00 LB Tare Weight 42,360.00 LB		
Net Weight 60,700.00 LB 30,35 TN	RATE	TAX TOTAL
30.35 TN 67 E453 Contained in Cont	minated Soil	
09/08/11 Incound - RAIL TICKET		
BNSF230081 Seattle 20 - 48 Ft		
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RABANCO REDIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

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14 September 2011

ORIGIN

Seattle

14 September 2011

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060196 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 101,620.00 LB Tare Weight 45,800.00 LB Net Weight 55,820.00 LB 27.91 TN

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RABANCO REGIONAL DISFUSAL P.O. BOX 338		SITE T	скет 507062	-		000
Roosevelt, WA 99356 (506) 394-5641		DATE IN	)36 GA1	L. +1	TIME IN	· · · ·
060136 - 0001	12 s	DATE OUT	dmedrope edmedrop	er 2011 r 2011	8:5 TIME OUT 9:23	ió aon  I aon
Lutheran Retirement Home of Lutheran Retirement Home of		VEHICLE 999551	<u>.</u>		ROLL OFF	U4-68769
Contract: LW-11193	·····	TOLUM	1	origin Swattlw		
1 Gross Weight 106,020.00 LE Tare Weight 46,880.00 LE Net Weight 59,140.00 LE	3					:
QTY. UNIT DE	SCRIPTION	RA1	<u>E</u>	EXTENSION	TAX	TOTAL
29,57 TN 67 1453 Co	ontained in Con	tami nat	ed Soi	].		
09/09/11 Inbound - F BNSF231157 Seattle 20						
212776						NET AMOUNT
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#### REV 11/09

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1520373 SITE TICKET GRID RAPANCO REGIONAL DISPOSAL З 507067 000000 P.O. BOX 338 WEIGHMASTER Roosevelt, WA 99356 GHOOO36 GAIL H (506) 384-5641 DATE IN TIME IN 14 September 2011 9:03 am DATE OUT TIME OUT 060136 - 0001 14 September 2011 9129 am Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF Lutheran Retirement Home of Greater Sea 7331 TELU9007555 REFERENCE ORIGIN TF3_U9007555 Contracts LW-11193 Seattle 1 Gross Weight 105,540.00 LB 47,520.00 LB Tare Weight 58,020.00 LB 29.01 TN Net Weight QTY. UNIT DESCRIPTION EXTENSION PATE TAX TOTAL 67 [45] Contained in Contaminated Soil 29.01 TN 09/09/11 Inbound - RAIL TICKET BNSF231157 Seattle 20 - 48 Ft 212974 NET AMOUN 0.00 YD TENDERED CHANGE CHECK NO. SERVICES SIGNATURE .

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RABANCO REGIÓ P.O. BOX 338		SITE 3	TICKET SO'203		GRID	
Roosevelt, WA (506) 384-564		DATE IN		I.T.L., 1-1	AASTER	
060136 - 0001		DATE O	UT	ber 2011 er 2011	9106 TIME OUT 9129 8	
Lutheran Reti Lutheran Reti	rement Home of Greater rement Home of Greater	Sea VEHICLE	3	ORIGIN	ROLL OFF	-25234-22
Contract: LW-	11193			Seattle		
1 Gross Weight Tare Weight Net Weight	97,120.00 LB 46,740.00 LB 50,380.00 LB 25.19 Th Description					
			TATE	EXTENSION	ΤΑΧ	TOTAL
25.19 TN	67 [45] Contained j	ne. S ^{ta} ne on the second second		1 <b>1</b>		J."
	and a second consists to the of the		475@921 - 29C)	3. 1.		۰.
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	Inbound - RAIL TICKE BNSF230113 Seattle 20 - 48 Ft	T I.	иллин (ни сананий) 			
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REPUBLIC					Ļ	CHECK NO.

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P.O. 80×						X36 GA	WEIGH	MASTER	······································
(506) 38		P~.*	2	).	DATE IN		wer 2011	TIME IN 9±07	am
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	n Retinemen Netinemen				VEHICLE 6181			ROLL OFF	-67726
Contract	.: LW-11193	<b>)</b>			REFERENC	E	ORIGIN		
	wight 106,	600,00 1			1	-67728	Seattle		·····
Tare k Net k	leight 46, leight 59,	600,00 l 660,00 l 940,00 l		א		-6777226 re	EXTENSION	TAX	TOTAL
Tare b Net b	leight 46, leight 59,	600,00 l 660,00 l 940,00 l	. <u>р</u> . <u>р. 29.9</u> 7 т	•	TOLU4	Г <u>Е ))) (</u> ))	EXTENSION	TAX	TOTAL
Tare L Net L	Weight 46, Weight 59, TN 67 C 09/09/11 In JBN	600.00 L 660.00 L 940.00 L 453 ( 150und	_B _B 29.97 T <u>DESCRIPTION</u> CORTALINES RAIL TICK	in Cont	TOLU4	Г <u>Е ))) (</u> ))	EXTENSION	TAX	TOTAL
Tare 4 Net 4 an	Weight 46, Weight 59, TN 67 C 09/09/11 In BN Se	600.00 L 660.00 L 940.00 L 453 ( 150und	LB 29.97 T DESCRIPTION Contained Contained RAIL TICK 3 0 - 48 Ft	in Cont	TOLU4	Г <u>Е ))) (</u> ))	EXTENSION	TAX	TOTAL NET AMOUNT
Tare 4 Net 4 017	Weight 46, Weight 59, TN 67 C 09/09/11 In BN Se	600.00   660.00   940.00   453 ( 150000 - ISF23011 20011 2011e 20	LB 29.97 T DESCRIPTION Contained Contained RAIL TICK 3 0 - 48 Ft	in Cont	TOLU4	Г <u>Е ))) (</u> ))	EXTENSION	TAX	
Tare L Net L 29.97	Weight 46, Weight 59, TN 67 C 09/09/11 In BN Se	600.00   660.00   940.00   453 ( 150000 - ISF23011 20011 2011e 20	LB 29.97 T DESCRIPTION Contained Contained RAIL TICK 3 0 - 48 Ft	in Cont	TOLU4	Г <u>Е ))) (</u> ))	EXTENSION	TAX	NET AMO

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 108,900.00 LB Tare Weight 48,020.00 LB Net Weight 60,980.00 LB 30.44 TN

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30.44	TN	67 6453	Contained i	n Conta	minated S	oi.1		
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TICKET

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14 September 2011

ORIGIN

14 September 2011

TOLU456780 |Seattle

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9:19 am

TOLU456780

9:49 am

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RABANCO REGIONAL DISPOSAL P.O. BOX 338	SITE 3	TICKET 50/71			С	
Roosevelt, WA 99356 (506) 384-5641	DATE IN		MIL H	MASTER		
AZA102	1. 4.	т	ember 2011	1. 1. : : :::: TIME OUT	· · ·	
- 060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea	N VEHICLE	14 September 2011 Vehicle		12:20 pm		
Contract: LW-11199	REFEREN		origin Seattle	I	420366	
1 Gross Weight 97,460.00 LB Tare Weight 39,400.00 LB						
Net Weight 58,060.00 LB 29.03 TN		ÄTE	EXTENSION	TAX	TOTAL	
	<u></u>		LATENOIDI		IUIAL	
29.03 TN 67 C453 Contained in C	contami na	ated (	3011.			
09/09/11 Inbound - RAIL TICKET						
DTTX27623 Seattle 20 - 46 Ft						
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RABANCO REGIO	NAL DISPUSAL	• . •	SITE TICKET	X7142	GRID	×		
P.O. BOX 338 Roosevelt, WA	99356		GHOOO3d	weic 5 GAUL H	AHMASTER			
(506) 384564	<b>£</b> .		DATE IN 14 Seec	stember 201	I. I	52 am		
060136 - 0001			DATE OUT	tember 2011	TIME OUT 1.22 # 222	^y pm		
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RABANCO REDIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

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1 Gross Weight 109,060.00 LB Tare Weight 145,900.00 LB Net Weight 63,160.00 LB 31.58 TN

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Roosevelt, WA 99356 (506) 384-5641	4 ²⁵ 4 ¹ 2 <del>0</del>	GHOOOGE GATL 14						
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1 Gross Weight 98,180.00 LB Tare Weight 38,880,00 LB								
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1520324 SITE TICKET GRID 50701.8 RABANCO REGIONAL DISPOSAL 000000 З F.O. BOX 338 WEIGHMASTER Roosevelt, WA 99356 GHOOCCEGATE H (506) 384-5641 DATE IN TIME IN 14 September 2011 7:32 am DATE OUT TIME OUT 060136 - 0001 14 September 2011 8:07 am Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF Lutheran Retirement Home of Greater Sea 3450 TOLU4-69911 REFERENCE ORIGIN Contract: LW-11193 TOLU469911 Seattle 1 Gross Weight 109,200.00 LB 47,100.00 LB Tare Weight Net Weight 62,100.00 LB 31.05 TN OTY. UNIT DESCRIPTION RĂTE EXTENSION TÁX TOTAL 67 6453 TN Contained in Contaminated Soil 31.05 09/12/11 Incound - RAIL TICKET DTTX430138 Seattle 20 - 48 Ft 212746 NET AMOUN 0.00 YD TENDERED CHANGE CHECK NO. SFRVICES SIGNATURE RS-F04-REV 11/09

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14 Vehicle	Seepriteendoe 1	or 2011.	8:17 am Roll off				

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 103,040.00 LB Tare Weight 45,440.00 LB Net Weight 57,600.00 LB 28.80 TN

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Roosevelt, WA 99356 (506) 384-5641		GHOOO36 GALL H	MASTER
060136 - 0001		14 September 2011 DATE OUT	TIME OUT
Lutheran Retirement Home c Lutheran Retirement Home c	of Greater Sea of Greater Sea	14 September 2011 VEHICLE 1565	ROLL OFF TOLL 4570972
Contract: LW-11193	· · · · · · · · · · · · · · · · · · ·	REFERENCE ORIGIN TOLL 457097 Seattle	
1 Gross Weight 104,340.00 L Tare Weight 46,100.00 L Net Weight 58,240.00 L	.B	• • • • • • • • • • • • • • • • • • •	
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 394-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

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Contract: LW-11193

1 Gross Weight 103,020.00 LB Tare Weight 47,260.00 LB Net Weight 55,760.00 LB 27.88 TN

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P.O. BOX 338		H. WEIGHN	l	J ·
Roosevelt, WA 99356	GH00036 BA			
(506) 384-5641	DATE IN 1.4 Septiem	5er 2011	TIME IN 2#556	net
	DATE OUT		TIME OUT	
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Contract: LW-11193	REFERENCE GCEU4-31.095	origin Seattle		
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QTV. UNIT DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
QTY UNIT DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
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28.28 TN 67 L453 Contained in Cont				
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28.28 TN 67 [45] Contained in Cont 09/12/11 Intound - RAIL TICKET			TAX	Contraction of the second s
28.28 TN 67 1453 Contained in Cont 09/12/11			<u>78x</u>	TOTAL
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28.28 TN 67 L453 Contained in Cont 09/12/11 Inbound - RAIL TICKET ENSF230017			<u>ΤΑΧ</u>	
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28.28 TN 67 [45] Contained in Cont 09/12/11 Inbound - RAIL TICKET ENSF230017 Seattle 20 - 48 Ft 212999			ΤΑΧ	
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F.O. MOX 338 Roosevelt, WA 99356 (506) 384-5641	(新約4) 	DATE IN	GATL H	TIME IN	
060136 - 0001	· • ·	DATE OUT	ember 2011 ember 2011	8:17 TIME OUT 8::45	
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Contract: LW-11193		TOLUASS		•	
1 Gross Weight 105,460.00 LB Tare Weight 46,220.00 LB Net Weight 59,240.00 LB	29.62 TN	·			
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

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(506) 3845641	L.		DATE IN 1.4. Seco	tember 201	1. 1. 1. 1. 4. TIME IN TIME OUT	2 am
060136 - 0001 Lutheran Retin	rement Home of	Greater Sea		ember 2011	12:30	p.m.
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1520471 SITE TICKET GRID RABANCO REGIONAL DISPOSAL 3 507165 000000 F'.O. BOX 339 WEIGHMASTER Roosevelt, WA 99356 GHOOOBE GALL H (506) 384-5641 DATE IN TIME IN 14 September 2011 12:54 pm DATE OUT TIME OUT 060136 - 0001 14 September 2011 1:16 pm Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF Lutheran Retirement Home of Greater Sea 1564TOI_U4-688999 REFERENCE ORIGIN Contract: LW-11193 TOLU468899 Seattle 1 Gross Weight 102,600.00 LB Tare Weight 41,660.00 LB 60,940.00 LB 30.47 TN Not Weight aty. UNIT DESCRIPTION RATE EXTENSION TAX TOTAL 30.47 TN 67 [45] Contained in Containated \$011 09/12/11 Inbound - RAIL TICKET BNSF230057 Seattle 20 - 48 Ft al 2770 NET AMOUN 0.00 YD TENDERED CHANGE CHECK NO. PUBLIC

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(506) 334-5641	· . ·	DATE IN 14 Septem		TIME IN 1.1.14	S≥ w.m.
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Contract: LW-11193		BEFERENCE ICSU4-64-0723	origin Seattle		
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an a sector sector a sector	5.4.4	· · · · · · ·	DATE	דעכ	mber 2011	8.125	ቆጠ
- 060136 - 0 - Lutheran R	etirement Home o			.E	beer 2011	B 1 59	2011 
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Roosevel (506) 38	t, WA		,	DATE IN			TIME IN	
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060136 - Lutherar		ement Home d	of Greater Sea		Septemb	er 2011	TIME OUT 9 t 1.5	8400
Lutheran	n Retir	ement Home d	of Greater Sea	681.:	l.		1	431071
Contract	, a [W]	.1193		REFERE		origin Scattle		
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Contract: Ll	J-11193			origin Seattle		
l Gross Weig Tare Weig Nøt Weig			, ,	and the second	And Alf free large and an announced	
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RABANCO REG	TONAL DESCRIPTION		SITE	TICKET 50749		1520 GRID	
P.O. BOX 33 Roosevelt,	18 WA 99356			XÓ25 JA	WEIGH	MASTER	~~
(506) 384~5	641		DATE IN		ber 2011	TIME IN 1 8 34	(THT)
060136 - 00 Lutharan Re	01 tirement Home	of Arester Sec		Septemb	er 2011		500
	tirement Hame			5	ORIGIN	BOLL OFF GCEU	432025
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Contract: L	W-11193		•	14-32025			16-96- MI · · · · · · · · · · · · · · · · · ·
	nt 101,400.00 ht 46,680.00		•	J4382025			· .
1 Gross Weig Tare Weig Net Weig	nt 101,400.00 ht 46,680.00	LB	(ocea	J402025		TAX	TOTAL
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1 Gross Weig Tare Weig Net Weig 22.36 TN	ht 101,400,00 ht 46,680,00 ht 54,720,00 m //12/11 Inbound - BNSF23117	LB 27.36 TN DESCRIPTION Contained in C		RATE	Seatt10	TAX	TOTAL
1 Gross Weig Tare Weig Net Weig 27.36 TN	ht 101,400.00 ht 46,690.00 ht 54,720.00 m 67 [45] /13/11 Inbound - BNSF23117 Seattle 2 212743	LB 27.36 TN <u>BESCRIPTION</u> Contained in C - RAIL TICKET 1 20 - 48 Ft		RATE	Seatt10	TAX	TOTAL NET AMOUNT
1 Gross Weig Tare Weig Net Weig 27.36 TN	ht 101,400.00 ht 46,690,00 ht 54,720,00 m 67 [45] /13/11 Inbound - BNSF23117 Seattle 2	LB 27.36 TN <u>BESCRIPTION</u> Contained in C - RAIL TICKET 1 20 - 48 Ft		RATE	Seatt10	TAX	
1 Gross Weig Tare Weig Net Weig 27.36 TN	ht 101,400.00 ht 46,690.00 ht 54,720.00 m 67 [45] /13/11 Inbound - BNSF23117 Seattle 2 212743	LB 27.36 TN <u>BESCRIPTION</u> Contained in C - RAIL TICKET 1 20 - 48 Ft		RATE	Seatt10	TAX	NET AMOUNT

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SIGNATURE _____

RABANCO REGIONAL DEPOSA F.O. BOX 338 Roosevelt, WA 97356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

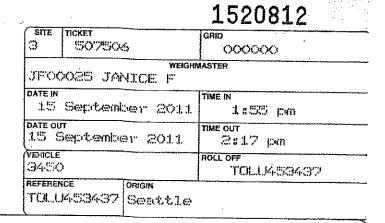
1 Gross Weight 105,800,00 LB Tare Weight 45,320.00 LB Net Weight 60,480.00 LB 30.24 TN

ΟΤΥ.	UNIT	DESCRIPTION RATE EXTENSION TAX	TOTAL
30.24	TN	67 [45] Contained in Contaminated Soil	,
	09/13	/11 Inbound - RAIL TICKET INSF231045 Seattle 20 - 48 Ft	Ţ
	I	212810 0.00 YD	NET AMOUNT

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 103,600.00 LB 46,300.00 LB 57,300.00 LB 28.65 TN Tare Weight Kkat blevinbrt.

	Net a		57, 300. O	DESCRIPTION		RATE	tro	TAX	TOTAL
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		0971;	Infocund DTTX253	- RAIL TICKET 89 20 - 48 Ft			(Annual Annual Annua		
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JFOOORS JANICE F

15 September 2011

ORIGIN

Seattle

DATE OUT 15 September 2011



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RABANCO REGIONAL DE 2056 P.O. ROX 338 Roosevelt, WA 99356 (506) (384--5641)

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VEHICLE 9953	L	-	ROLL OFF TOLL4-68768
TCLL		origin Searttle	

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Contract: LW-11193

1 Gross Weight 105,740.00 LB Tare Weight 44,820.00 LB Net Weight 60,920.00 LB 30.46 TN

ary.	UNIT, -	DESCRIPTION R/	TE EXTENSION	TAX	TOTAL
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	NAL DISPOSAL		SITE TICKET	31		0
F.O. ROX 338 Roosevelt, W			.0500020_9		MASTER	
(506) 384564			DATE IN 20 Septe	mer 201	TIME IN 9114	-ສິດທີ (
060136 - 0001		na trada sea ana - Albana se	DATE OUT	ter 2011		am
LARTWY'ERD ROPLA	rement Home of Gre	Balley" Inda	VEHICLE 3450		ROLL OFF	U456531
Contract: LW-	-11193		REFERENCE TOLU45653	ORIGIN Seattle	₩ ₩	
	: 46,480.00 L.B : 57,080.00 L.B 28. Description	· •	RATE	EXTENSION	TAX	TOTAL
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1.460	3/11 Inbound - RAIL	5° 34 5° 4.45° 10°				-
	Seattle 20 - 48					· · ·
	1				<u> </u>	NET AMOUNT
	212740 0.00 YD				·	· · · ·

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RABANCO REDIONAL DISPOSA P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11199

1 Bross Weight 110,260.00 LB Tare Weight 46,620.00 LB Net Weight 63,640.00 LB 31.82 TN

	OTY.	UNIT	DESCRIPTION RATE EXTENSION	TAX TOTAL
· · ·	31.82	TN	67 E453 Contained in Contaminated Soil	
		09/13	/11 Intraund - RAIL TICKET	
			BNSF231192 Seattle 20 - 48 Ft	
***	I		0.00 YD	NET AMOUNT

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DATE IN

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JF00025 JANICE F

15 September 2011

15 September 2011

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RABANCO REGIONAL DISCORT. P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641 OSO136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

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JFOOD25 JANEC	WEIGHMASTER E F
Lo September	2011 TIME IN 1 \$ 06 pm
1.6 September	2011 TIME OUT 2011 1 # 30 pm
VEHICLE 123330	BOLL OFF CCEU431468
REFERENCE ORIGII OCEU4-314-68 See	

1513078

Contract: LW-11193

1 Gross Weight 111,580.00 LB Tare Weight 48,440.00 LB Net Weight 63,140.00 LB 31.57 TN

ατγ.	UNIT	DESCI	UPTION	Sales and Landon	RATE	EXTENSION	TAX	TOTAL
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Roosevelt, WA 99356 (506) 334-5641		JF00028 .	JANICE F	ASTER	
	a na star star star star star star star sta		enter 2011	TIME IN L a OEB	£m
060136 - 0001 Lutheran Retirement Home (		DATE OUT 16 Seystem	nber 2011	TIME OUT L # 36 p.	433
Lutheran Retirement Home	of Greater Sea	1.565 Reference	ORIGIN	TOLUS	-56611
Contract: LW-11193		TOLUME66:	11 Seattle		
l Gross Weight 111,520.00   Tare Weight 47,160.00   Net Weight 64,360.00					
QTY.UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TÓTAL
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09/14/1 Inbound	RAIL TICKET				
09/14/11	3.				
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09/14/11 Inbound - ENSF231078 Seattle 20 212741	3 ) - 48 Ft				

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RABANCO P.O. BOX	REGIONAL STATISTICS		SITE	TICKET SC/77794			>	`
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060136 Lutherar	- 0001 Retirement Home o	f Greater Sea	DATE OU	Septembe	ər 2011	TIME OUT	XIII	
	Netirement Home o		733:		1.000	ROLL OFF	57728	, <b>.</b> .
Contract	.: LW-11193		REFEREN	ксе J4 <del>5</del> 577228	origin Sœacttlæ			
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	BNSF231150			•		· · ·		
	Seattle 20	- Ad Ft						÷
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(506) 384-5641	a la shqiptari	DATE IN	ejurtemt	er 2011	TIME IN 2:06	- [2:01)
060136 - 0001		DATE OUT	ptente	er 2011	TIME OUT 2#27	pm
Lutheran Retirement Home Lutheran Retirement Home		VEHICLE 7330			ROLL OFF TCMI.J	466584
Contract: LW-11193		REFERENCE TOLUM		origin Seattle		—
1 Gross Weight 116,120.00 Tere Weight 44,560.00 Net Weight 71,560.00						
Tame Weight 44,560.00 Net Weight 71,560.00	) L.B ) L.B (35, 78 TN description	rtami ratt		EXTENSICH	TAX	TOTAL
Tare Weight 44,560.00 Net Weight 71,560.00 35.78 TN 67 E453 09/14/13 Inbound BNSF2311	) LB ) LB 35,78 TN  Contained in Cor RAIL_TICKET				TAX	TOTAL
Tare Weight 44,560.00 Net Weight 71,560.00 077 UNIT 35.78 TN 67 E450 09714711 Inbound BNSF2311 Seattle 212807	) LB ) LB 35,78 TN <u>pesception</u> Contained in Cor RAIL TICKET .64				TAX	TOTAL
Tare Weight 44,560.00 Net Weight 71,560.00 077 UNIT 35.78 TN 67 E451 09714711 Inbound ENSF2311 Seattle 212807	) LB ) LB 35,78 TN <u>pescreption</u> Contained in Cor - RAIL TICKET .64 20 - 48 Ft				TAX	

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RABANCO REGIONAL **DISCON** P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0001 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-11193

1 Gross Weight 114,440.00 LB Tare Weight 47,720.00 LB Net Weight 66,720.00 LB 33.36 TN

QTY.	ÚNÍT		DESCRIPTION		RATE	EXTENSION	TAX	TOTAL
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	00 14	x 24 A						
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		515908						NET AMOUNT
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16 September 2011

16 September 2011



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Roosevelt, WA (506) 334-564			GHOOO36 GATL, H date in	TIME IN
,			21 September 2011 DATE OUT	
060136 - 0003			21 September 2011	TIME OUT 8:09 a.m
	rement Home of Great rement Home of Great		VEHICLE	ROLL OFF TOLLU4-572860
			REFERENCE	
Contract: LU-	·		TOLU457860 Seattle	
1 Gross Weight Jare Weight Net Weight	37,620.00 LB	) TN		
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Roosevelt, WA 99356		X0025 JA	NECE F		·
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	J. C. DATE C	> June 2	X#4.65 A.	1253 (247) TIME OUT	· · · · · · · · · · · · · · · · · · ·
060136 - 0003	1	June 20	12 1:	4-6 ENT	
Lutheran Retirement Home of Greater Sea	VEHICL			ROLL OFF	
Lutheran Retirement Home of Greater Sea	681			TCSU4	64073
	REFERI		ORIGIN		
Contract: LW-12249		3U464073	Seattle		
1 Gross Weight 104,480.00 LB			•		
Tarre Weight 45,480,00 LB			in . The second se		•
Net Weight 59,000.00 LB 29.50 TN					
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Froosevelt _a W		JF00025 JANICI	
(506) 384-56	<b>641</b>	DATE IN	
1 		- 16 June 2012	
15 1 15 1 15 1 1 1 1 1 1 1 1 1 1 1 1 1	en e	DATE OUT 3.6 June 2012	TIME OUT 1. 2 553 port
060136 - 000	irement Home of Greater Sea	VEHICLE	ROLL OFF
	irement Home of Greater Sea	3450	GCEL426815
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Contract: Lk	H-12249	GCEU426815 Se	att1@
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	Seattle 20 - 48 Ft		
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Roosevelt, WA 99356		JF00025 JANICE F	
(506) 384-5641		DATE IN 1.6 June 2012 2	TIME IN 1922 (Def)
060136 0003		DATE OUT 1.6 June 2012 2:	TIME OUT 23 parts
Lutheran Retirement Home c Lutheran Retirement Home c		VEHICLE 2251	ROLL OFF OCEU435218
Contract: LW-12249		CCEU4-35218 Swarttle	
1 Gross Weight 106,220.00 L Tare Weight 44,040.00 L Net Weight 62,180.00 L			
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			JFC	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	WEIGHMASTER	<b>I</b> 
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Contract: LW-13	<u>2249</u>					
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		second and the second set of a	Contant	nated Soil		
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		പറ്റവുംബം പറ				
38.10 TN 6	/12	RAIL TICKET				
	utheran Retire Lutheran Retire Contract: LW-12 Gross Weight 1 Tare Weight Net Weight	Lutheran Retirement Home o Lutheran Retirement Home o Contract: LW-12249 Gross Weight 122,160.00 L Tare Weight 45,960.00 L Net Weight 76,200.00 L	utheran Retirement Home of Greater S utheran Retirement Home of Greater S Contract: LW-12249 Gross Weight 122,160.00 LB Tare Weight 45,960.00 LB Net Weight 76,200.00 LB 38.10 TN	DATE OF DATE OF DATE OF DATE OF Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Contract: LW-12249 Contract: LW-12249 Gross Weight 122,160.00 LB Tare Weight 45,960.00 LB Net Weight 76,200.00 LB 38.10 TN	D60136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Contract: LW-12249 Gross Weight 122,160.00 LB Tare Weight 45,960.00 LB Net Weight 76,200.00 LB 38.10 TN	060136 - 0003       Interim for the set of Greater Sea         16 June 2012       2:55         16 June 2012       2:55         Vehicle       6181         16 June 2012       2:55         Vehicle       6181         Contract:       LW-12249         Gross Weight 122,160.00 LB       GCEU426622         Tare Weight 45,960.00 LB       38.10 TN         Net Weight 76,200.00 LB 38.10 TN

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t⊈ Gr T	oss Weight ane Weight Net Weight	99,080.00   44,980.00   54,100.00	LB 27.05 T		GCE	14-35253			
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	oss Weight ane Weight Net Weight 2.05 TN 6	99,080.00   54,980.00   54,100.00   72 E453   12	LB LB 22.05 T DESCRIPTION Contacined RAIL TICK 7	in Cont	GCE		EXTENSION		

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	keti renert Hone keti renert Hone					ROLL OFF	45390
Contract:	LW-12249		REFEREN YOLL		origin Seatt1.e		
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1 Gross Weight 112,560.00 LB Tare Weight 47,320.00 LB Net Weight 65,240.00 LB 32.62 TN

Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

RABANCO REGIONAL DISPOSAL

Roosevelt, WA 99356

Contract: LW-12249

P.O. BOX 338

(506) 384-5641

060136 - 0003

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Lutheran Retirement Lutheran Retirement			) .		ROLL OFF GCEU4-30296
Contract: LW-12249		REFEREN		origin Swattle	· · · · · · · · · · · · · · · · · · ·

1 Gross Weight 119,10 Tare Weight 44,980.00 LB Net Weight 74,120.00 LB 37.06 TN

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Roosevelt, WA 99356		GHOOO36 GAI	KL. 14	
(506) 384-5641	5	DATE IN	TIME IN	
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

#### 060136 ~ 0003

Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

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Contract: LW-12249

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1 Gross Weight 97,160.00 LB Tare Weight 45,760.00 LB Net Weight 51,400.00 LB 25.70 TN

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RABANCO REGIONAL DISPOSAL P.O. BOX 338		.5 .0.0.0.0.0.0.0	WEIGHMASTER
Roosevelt, WA 99356		GHOOO36 GAIL	
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Contract: LW-12249		REI ERENOL	gn Gearttle
1 Gross Weight 110,800.00 Tare Weight 44,740.00 Net Weight 66,060.00			TAX
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RABANCO REGIONAL DI	ann sa	SITE TICKET	
P.O. BOX 338 Roosevelt, WA 99356		JECCO25 JANIC	WEIGHMASTER
(506) 384-5641		DATE IN 22 June 2012	TIME IN 2115 (340)
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Lutheran Retirement			ROLL OFF TOLU4-665
Contract: LW-12249		REFERENCE ORIGIN	attle
1 Gross Weight 115,6			
Tare Weight 46,9 Net Weight 68,6	50.00 LB 34.32 TN		
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34.32	TN	67 6453 Contained in Contami	natwd	Soil	
	× 0672	5/12 Inbound - RAIL TICKET BNSF231014 Seattle 20 - 48 Ft			
		217073			 NET AMOUNT

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	P.O. BOX 338 Roosevelt, WA	i i		Jt. o	00025 JAND	WEIGHMAST	TER
	(506) 384-564			DATE II	n 7 June 201	2 2::2	ie in 23 pm
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	1 Gross Weight Tare Weight Net Weight	, 46,940,00 LJ	8				www.esco
Children (	QTY, UNIT	DES	SCRIPTION		RATE	TENSION	TAX TOTAL
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VEHICLE 7232		ROLL OFF TELLI4-24-1.05
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

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Contract: LW-12249

1 Gross Weight 115,880.00 LB Tare Weight 47,280.00 LB Net Weight 68,600.00 LB 34.30 TN

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P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641 060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea Contract: LW-12249 1 Gross Weight 112,500.00 LB Tare Weight 47,760.00 LB Net Weight 64,740.00 LB 32.37 TN EXTENSION DESCRIPTION RATE UNIT QTY. Contained in Contaminated Soil 67 [453] 32.37 TN 06/25/12 Insound - RAIL TICKET BASE231085 Seattle 20 - 48 Ft

RABANCO REGIONAL DISPOSAL

TOTAL

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RABANCO REGIONAL DISPOSAL	SITE TICKET GRID 3 5667292 OOCOOO WEIGHMASTER
P.O. BOX 338 Roosevelt, WA 99356	JF00025 JANICE F
(506) 384-5641	DATE IN TIME IN 2012 2146 DM
060136 - 0003	DATE OUT 27 June 2012 3: 07 pm
Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea	VEHICLE ROLL OFF 6181 TOLU422012
Contract: LW-12249	TOLU422012 Seattle
1 Gross Weight 109,720.00 LB Tare Weight 46,520.00 LB Net Weight 63,200.00 LB 31.60 TN	
QTY, UNIT DESCRIPTION	RATE EXTENSION TAX TOTAL
31.60 TH 67 E453 Contained in Cor	ntaminated Soil
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Seattle	20 - 48 Ft

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	SITE TICKET GRID
RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356	JFOOO2S JANICE F
(506) 384-5641 A	
060136 - 0003	DATE OUT 27 June 2012 3: 21 pm
Lutheran Retirement Home of Greater S Lutheran Retirement Home of Greater S	3698) 7327 CALEMON
Contract: LW-12249	GCEU426451 GRIGIN GCEU426451 Seattle
1 Gross Weight 130,640.00 LB Tare Weight 42,260.00 LB Net Weight 88,380.00 LB 44.19 TN	
QTY. UNIT DESCRIPTION	RATE EXTENSION TAX TOTAL
44.19 TN 67 0453 Contained it	n Contaminated Soil

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA \$29356 (506) 384-5641

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TIME IN DATE IN 22 June 2012 Sailt pm DATE OUT 27 June 2012 TIME OUT 3:31. pm ROLL OFF VEHICLE GCEU445126 7328 REFERENCE ORIGIN GCEU445126 Seattle

TICKET

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GRID

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060136 - 0003 Lutheran Retirement Home of Greater Sea

Lutheran Retirement Home of Greater Sea

Contract: LW-12249

(1 Gross Weight 120,100.00 LB Tare Weight 45,520.00 LB Wet Weight 74,580.00 LB 37.29 TN

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	Intound - RAIL TICKET			
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	Seattle 20 - 48 Ft			
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GRID SITE TICKET 569493 000000 RAGANCO REGIONAL DISPOSAL P.O. BOX 338 WEIGHMASTER GHOOOSS GAIL H Roosevelt, WA 99356 (506) 384-5641 TIME IN DATE IN 1.a 558 - pan 10 July 2012 TIME OUT DATE OUT 10 July 2012 2:24 pm 060136 ~ 0003 Lutheran Retirement Home of Greater Sea VEHICLE ROLL OFF CL0U282253 Lutheran Retirement Home of Greater Sea ORIGIN REFERENCE CLOU282256 Seattle Contract: LW-12249 98,680.00 LB 1 Gross Weight Tare Weicht 47,140.00 LB 51,540.00 LB 25.77 TN Net Weight TOTAL TAX EXTENSION DESCRIPTION RATE UNIT QTY. Contained in Contaminated Soil WT 67 1.453 07/06/12 Inbound - RAIL TICKET 880062748/4g Seattle 20 - 48 Ft NET AMOUNT 2177928.00 PP

REV 11/09

SIGNATURE ____

RS-F04-

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CHECK NO.

RABANCO REGIONAL DISPOSAL P.G. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 Gross Weight 102,820.00 LB Tare Weight 44,660.00 LB Net Weight 58,160.00 LB 29.08 TN

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GHO	0036 GA	WEIGHN	ASTER
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DATE OU	л July 20	12 9a	<b>time out</b> 212 aun
VEHICLE 681			ROLL OFF TOLU476396
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			RATE	EXTENSION	TAX	TOTAL
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REV 11/09

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GRID TICKET SITE RABANCO REGIONAL DISPOSAL -WEIGHMASTER P.O. BOX 338 GHOOO36 GAIL H Roosevelt, WA 99356 TIME IN DATE IN (506) 384-564t 11 July 2012 TIME OUT DATE OUT 11 July 2012 060136 ~ 0003 Lutheran Retirement Home of Greater Sea ROLL OFF VEHICLE 0080431745 Lutheran Retirement Home of Greater Sea ORIGIN REFERENCE 60EU431745 Seattle Contract: LW-12249 1 Gross Weight 101,720.00 LB 47,140.00 LB Tare Weight 54,580.00 LB 27.29 TN Net Weight TAX TOTAL EXTENSION RATE DESCRIPTION UNIT QTY. Contained in Contaminated Soil 67 0451 07/06/12 'Enbound - RAIL TICKET DTTX430122 Seattle 20 - 48 Ft NET AMOUNT 216961 28.00 FP TENDERED CHANGE CHECK NO.



SIGNATURE

REV 11/09

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt. WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1	Gross	Weight	104,480,00	L.B		
	Tarre	Weight	45,480,00	1		
	Net	Weight	59,000.00	LE	29,50	Υ'N

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ατγ.	UNIT		DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
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		BNSF230 Seattle	055 - 20 - 48 Ft		20 20		
		217024			Ē.		NET AMO

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1.	Gross	Weight	103,820.00	1.13		
	Tare	Weilight	46,800.00	LE		
	Nert	Weight	57,020.00	L. <u>B</u>	28.51	TN

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		SCURT - RAIL TICKET SF230011				
	Giese	attle 20 - 48 Ft 2023				NETAM

RABANCO REGIONAL DISPOSAL P.O. ROX 338 Roosevelt, WA 99356 (506) 384-5641

1 Gross Weight 106,220.00 LB

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

QTY.	UNIT		DESCRIPTION	RATE	EXTENSION	TAX	TOTA
3109	TN	67 0453	Contained in Con	tami, nactesd	\$0.i. J.		
	06.71	Inbound DTTX422	- RAIL TICKET 532 - 20`- 48 Ft				

SITE TICKET

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VEHICLE 9925			BOLL OFF GCEU435218
GCE	NCE UK-35216	Seatt1	<b>5</b> 3

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheman Retirement Home of Greater Sea Lutheman Retirement Home of Greater Sea

1.	Grosss	Weight	122,160.00	1.13		
	Tarrea	Westight	45,960,00	1.8		
	Net	Westght	76,200,00	L.E	38.10	Viv

SITE 3	тіскет 564289	2	GRID
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38,10	TN	67 (45)	Contained in Com	ami nacked	Soil		
	. 06/14	Inbound BNSF231	— RAIL TICKET 117 20 — 48 Ft				
		217004					NET AMOL



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GRID

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2:17 cm

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ROLL OFF

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WEIGHMASTER

RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

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SITE

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TICKET

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ORIGIN

GCEU435253 Seattle

16 June 2012

16 June 2012

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contracts LW-12249

1 Gross Weight 98,620.00 LB Tare Weight 41,540.00 LB Net Weight 57,080.00 LB 28.54 TN

SITE	<b>тіскет</b> 564436	3	GRID
(3)-4(3)	0036 GA:	WEIGHN	IASTER
DATE IN	June 20	>1.2 9	TIME IN CO3. aun
DATE OI	June 20:	.2. 9a	TIME OUT
VEHICLE 7233			ROLL OFF TOLLU453937
REFERE		Seattle	L

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
28.54	TN	67 E453 Contained in Cor	nt-iond, nactesof	Soi l		
	Ġ6/1	-/12 Inbound - RAIL TICKET DTTX427532				
		Seattle 20 - 48 Ft				NET AMO

signa state proper.

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 Gross Weight 123,800.00 LB Tare Weight 45,800.00 LB Net Weight 78,000.00 LB 39.00 TN

	S64908	GRID
VROOK	20 VICKY	WEIGHMASTER
DATE IN 1.9 J	une 2012	SISS DWD
<b>DATE OUT</b> ユターJu	me 2012	4-2 SP DOD
<b>VEHICLE</b> 61.81.		ROLL OFF TELU466654
REFERENCE	-66654 Sea	t.t.1 m

39.00	TN 67 E4	53 Contained in C	ontaminated (	Scill	
		cound - RAIL TICKET			
		¥230064 attle 20 - 68 ft			

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LU-12249

1 Gross Weight 114,400.00 LB Tare Weight 44,160.00 LB Net Weight 70,240.00 LB 35.12 TN

SITE	<b>тіскет</b> 567898	)	
GI-IO	2036 GA1	WEIGHN	IASTER
DATE IN		.2 2r3	TIME IN O parti
DATE O		3:04	TIME OUT
VEHICLI 22933			ROLL OFF TPHU252009
REFERE		origin Seatttle	~~

35.12 1						
Section 2.13 set a beau 4	TN 52 (1453	Contained in Co	ntaminated S	çod. J.		
<	26729712 Inboun	d – RAIL TICKET				
	ENSF23 Seatt1	11,82 e 20 - 48 Ft			a	

RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 Gross Weight 108,220.00 LB Tare Weight 41,680.00 LB Net Weight 66,540.00 LB 33.27 TN

SITE	TICKET 567908	}	GRID OOOOOO
GHOG	)036 GA)	WEIGHN	IASTER
DATE IN	fuly 201		TIME IN
DATE OL G TL	And the second second second	2 3 : 22	TIME OUT
VEHICLE 6182			ROLL OFF GCEU4-31.060
REFEREI GCIEL		origin Souttle	

33.27 TN 67 E453 Contained in Contaminated Soil 06/29/12 Inbound - RAIL TICKET BNSF230088 Seattle 20 - 48 Ft	QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
Inbound - RAIL TICKET ENSF230038	33.27	TN	67 [45] Contained in Conta	minated S	oil		
		06729					

RABANCO REGIONAL DISPOSAL F.O. BOX 3339 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003

Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1. Grov	ss Weight	1.04,240,00	1.33		
Ta.	re Weight	46,520,00	1.13		
N	et Weight	57,720.00	L.E	28.86	TN

SITE	тіскет 567913	3	GRID 000000
GHOO	0036 GA)		MASTER
DATE IN	July 201	.22 Zuk	TIME IN
DATE OL	n 1.9 2012	3:44	TIME OUT
VEHICLE 9953			ROLL OFF GCEL/431/245
BEFÉREI GCEL		origin Seattle	·

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTA
29. 96	TN 672 D	451 Contained in Cor	nteminated (	Sod I		
	DY	bound — RAIL TICKET TX27127 attle 20 — 48 Ft				

 $A_{i,n}$ 

A12, A23, 24, 26, 26, 241, 241, 241,

### 17/021/

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 01088	Weight	112,640,00	1.5	
	Weight			
Net	Weight			TN

SITE	<b>тіскет</b> 5691.68	1.00	GRID 000000
G#400	)036 GA1	WEIGH	MASTER
DATE IN	huly 201	2 1.s	TIME IN 3 (Sm
DATE OU	n dy 2012	2 2:00	TIME OUT
VEHICLE 61.82			ROLL OFF TOL.U424266
TOLL		ORIGIN Seattle	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
35. 33	5 TN 57 E43	50 Contained in C	ontani.nated (	Soi I		
	REMER	ound — RAIL TICKET 7231131				
	Sea: 217	stle 20 - 48 Ft				NET AMOU

·6.

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea

SITE	TICKET		GRID
3	568219	P	000000
		WEIGHN	
JROO	020 410	KY R	
DATE IN			TIME IN
SJ	uly 201	2 3:4	2 pm
DATE O	JT		TIME OUT
5 Ju	19 2012	3:42	E340
VEHICLE			ROLL OFF
733	1.		GCEL431305
REFERE	NCE	ORIGIN	
SCEU	431.305	Seattle	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
			and the second			
22, 25	TN 67 1453	Contained in Co	ontaminated S	So:1		
	07/02/12					
	Tinbour	NJ - RAIL TICKET				
	ENSE 223	31075				
		le 20 - 48 Ft				

P.O. BOX Roosevelt (506) 384 060136 - Lutheran	338 :, WA 94 :-5641 : : : : : : : : : : : : : : : : : : :	_ DISPOSAL		SITE TICKET 56685 JTF000255 J DATE IN 6 JULY 20 VEHICLE 9951 REFERENCE	MRICE F 3012 2:	TIME IN DS (DR) TIME OUT D(R) ROLL OFF	-45020
Tare W	eight 1 eight	249 16,840.00 LB 45,960.00 LB 70,880.00 LB 35	5. dade TN	GCEL/44502	20 Seattle	i K	
QTY.	UNIT	DESCRIPTIO	ON	RATE	EXTENSION	TAX	TOTA
<b>35,</b> 44	-	7 (453 - Conta	dned in Cor	rtaninatæd (	Soil		
	07/03/	12 Inbound - RAIL BNSF230102 Seattle 20 - 4					
		21.7769					NET AM

RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5644

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contracts 1.W-12249

1 Gross Weight 115,420.00 LB Tare Weight 45,820.00 LB Net Weight 69,600.00 LB 34.80 TN

SITE	TICKET 568552	r);z	GRID 000000		
JIP O	0025 JA	NICE	WEIGHN	IASTER	
	July 20	12	20- Z - Z -	TIME IN DES (DAD)	
CATE OU	n My 201:	32	2:42:	TIME OUT	
VEHICLE 733				BOLL OFF GCEUK-25371	
GCE	<b>ICE</b> 1435371	origin Seaat	tle		

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
34.80	TN 67 E43	51 Contained in C	ontaninated	Sod I.		
	ERVEL	ound — RAIL TICKET F230070 ttle 20 — 48 Ft				
	217					NET AM

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1	Grosss	Weight	115,960.00	6.19		
		Westght				
	内田七	Weight.	23,100.00	L.B	36,855	TN

SITE	TICKET 56853	3		GRID OOOOOO
JFO	0025 JA	NTCE F	VEIGHM	ASTER
DATE IN ර	JUJ.Y 20	12		time in 365 (Data
DATE OL	n 11. 201	2. i	2 n 44	гіме out jom
VEHICLE 8664				TOLU466654
REFEREN	<b>ice</b> J4-6-6854	ORIGIN Seventri	.J.(:)	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
36. 55	TN 6	97 5451 Contained in Cont	iami.nated	Soá. J.		
	07/03/	12 Inbound - RAIL TICKET				
		BNSF231169 Seattle 20 - 48 Ft				
		217150		11		NET AMOL

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5644

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 Gross Weight 112,220.00 LB Tare Weight 41,900.00 LB Net Weight 90,320.00 LB 35.16 TN

SITE				GRID
JFO	0025 JA	VI.CE.	WEIGHN	IASTER
DATE IN	July 20	12	22.12	TIME IN 277 Jun
DATE OL	uly 201:	ani, ani, ani,	2:5	TIME OUT 3 parti
KEHICLE 61.63				ROLL OFF OCEU420235
GCE	NCE 14-20265	ORIGIN Severi	stie	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
35.16	TN 67 E43	53 Contained in Cont	tami natæd	Soi 1		
	07/03/12 Teta	und - RAIL TICKET				
	ENER	-230120 511e 20 - 48 Ft				
	23.6	251				NET AMOL

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LU-12249

1 Gross Weight 105,920.00 LB Tare Weight 45,400.00 LB Net Weight 60,520.00 LB 30.26 TM

SITE	TICKET SASSAA	GRID 000000	
JTFO	0025 JANICE	WEIGHN	IASTER
DATE IN	July 2015	2.u.	TIME IN B22   E4th
DATE OL	n uly 2012	2:3	TIME OUT
VEHICLE 1.556			ROLL OFF TULU4-594-62
TOL	NCE ORIGIN U4594-62 See	ttle	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
30., 26	TN 67 64	-53 Contained in Cont	aninated	Soil ·		
	o7203/12	ound - RAIL TICKET				
		#230040 dtle 20 - 48 ft				
	22.1.7	·	1			NET AMO

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1	Gross	Weilght	106,560.00	L.E		
	Tarres	Westght	45,300.00	1.33		
	Nert	Wesight	61,260,00	LE	30.63	TN

SITE	TICKET 56821.:	and the second se	GRID
GHO	0036 GA:	WEIGHN	AASTER
DATE IN		12 2nt	TIME IN Present
DATE O		2 3:24	TIME OUT · [241]
VEHICLE 72322	Statistics and second		ROLL OFF TOLLU4-76396
REFERE		origin Seattle	•

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
1420 205	10/15 1 1 10/19 1 10	a pressing and a start of a start				
30. 63	TN 87 0	453 Contained in C	orrtaninated (	Ecsi I.		
	*					
	07702712 In	bound - RAIL TICKET				
	FCL	TX430122 attle 20 - 48 Ft	.95			
-		7126				

RABANCO RÉGIONAL DISPOSAL P.O, BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Gross	Weight	101,800.00	LB		
A 10 Y 10	Wedght				
Nert	West, gente	535 ₈ 200 , 00	L.B	22.60	NT

SITE 3			GRID 000000
GI-IOC	036 GAI	WEIGHN	ASTER
DATE IN	fuly 20t	2 2.ac	TIME IN 4. (Def)
DATE OU		2:29	TIME OUT
VEHICLE ZOOC			ROLL OFF TOLL 144-02270
REFERE	All and the second states	origin Seattle	1

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
22.60	TN 57 C4	51 Contained in Co	ontaminated S	5coi.l		
****		ound — RAIL TICKET F231079				
	Sea	dtle 20 - 48 Ft				NET AMOL

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

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1

.1.	Gross	Weight	99,880,00	1. Et		
	Tet rey	Wed.ght	47,160.00	1.33		
	Net	Weight	52,720,00	L.E	26.36	TN

SITE 3	TICKET S68000	io.		GRID OOOOOOO
JFO	0025 JA	NECE	WEIGHN	IASTER
	July 20	12	ding sta And sta	TIME IN 522 (540)
DATE OL	uly 201	en.	3:0	TIME OUT ັ⊅ [⊒ະເຄ
VEHICLE SPOS			4	ROLL OFF GCEU4-20227
REFEREI		origin Steact	tle	GCEU42022

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
26.36	TN 67 E4	50 Contained in Co	ntaninated	Seri, I.		
1.1.1	07/04/12		-			
	Ender	ound - RAIL TICKET F23008:L ttle 20 - 48 Ft				
	631.7	281.				NET AMO

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosmvelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Ц.	Grosss	Weight	118,580,00	1		
	J"∉n"e⊱	Weelight	45,280,00	1)?		
	Net	destgint	72,800,00	L_E	36.40	MT

SITE	тіскет 5681.9:	Ι.	GRID
			MASTER
(JHO)	0036 GA:	1. H	
DATE IN			TIME IN
107 - g	July 20:	12 2::	19 pm
DATE OL			TIME OUT
5 J.	ay 2012	2 2 8 4 9	Esth
VEHICLE			ROLL OFF
7325	2		TOL14-59656
REFERE	NCE	ORIGIN	
TCH.I.	1459656	Seattle	
		the state of the state state	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
3640	TN 5	7 E453 Contained in Co	nteminated (	Sect. 1		
	077027	Inbound - RAIL TICKET				
		BNSF231047 Seattle 20 - 48 Ft 217131				

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, NA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1 Gross	Westght	125,400.00	1.33		
Tarmer	Weight	44 , 400 a 00	LE		
Net	Weelight	81,000,00	$E_{\rm e} \chi_{\rm s}^2$	40.50	TN

SITE	тіскет 568190	3	GRID 000000
GHO	0036 (GA)	WEIGHN	ASTER
DATE IN	futy 203	.2 2×2	TIME IN 22 (Cat)
DATE OL 5 Ju		2:53	TIME OUT
VEHICLE 61.80			BOLL OFF GCELI431594
REFERENCES.		origin Seattle	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
40, 50	174	57 C453 Contained in Conta	mi entered o	Sai 1		
		-	TTER FROM SPACE A	e to Patrala		
	07/02	712 Inbound - RAIL TICKET BNSF231047				
		Seattle 20 - 48 Ft				

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 334-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

	32.28 TN	108,760.00 L 44,200.00 L 64,560.00 L		Tarre
RA	CRIPTION	1	UNIT	QTY.
to a facility or most	what is far			14 311

3 568196 web	000000
WEIG	
	GHMASTER
3HOOO36 GAIL H	
DATE IN	TIME IN
5 July 2012 21	#42 pm
DATE OUT	TIME OUT
5 July 2012 2:5	5% pm
VEHICLE	ROLL OFF
7931	TOLU4533479
REFERENCE ORIGIN	
TOLU453479 Seattle	Neg Legi

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
				,		
32.28	TN .	57 E453 Contained in Cont	aminated 9	Spi l		
	5	24 25				
	07702	Inbound - RAIL TICKET				
		BNSF231047 Seattle 20 - 48 Ft				
		21.77253				NET AMO

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

r.!

Contract: LW-12249

1 (	Bross.	Weight	97,200,00	1.33		
	Tante	Weight	41,040.00	1.13		
	Net	Weight	56,160,00	L.E	28*08	TN

SITE	TICKET 568198		GRID OOOOOO
(3HQ)(	X036 (GA)		MASTER
DATE IN	fuly 201	.2 2. a	TIME IN (1.3. (DP)
DATE OL		2 3aO	тіме оut ряп
Vehicle 61.82			ROLL OFF TELL/900755
REFEREN	and the second second	origin Seattle	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
28.08	TN S	57 E453 Contained in (	Conteminadaed s	Sod I		
	07/02/	Inbound - RAIL TICKET				
		BNSF231047 Seattle 20 - 48 Ft				

217130

NET AMOUNT

RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1.	Gross	Weight,	116,920.00	1.13		
	Tä∖r@	Weight	47,160.00	1.13		
	Next	Weelght	69,760,00	LE	34.88	TN

			1142340
( site ()	<b>тіскет</b> 56820	83. 	GRID 000000
(imoc	036 64	WEIGHI	MASTER
DATE IN 5 J	uly 20	12 2:4	TIME IN
DATE OU S JU		2 3113	
VEHICLE 1404			BOLL OFF TOLU4-6881.9
REFEREN	<b>CE</b> 4-6881.9	origin Seattle	

1		DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
						-
34., 88	TN 57 C43	53 Contained in Cor	diami naticet 5	541		
		is a first the second	Constrained a part sector of the	and she phy		
	*					
	07/02/12					
		aund - RAIL TICKET				
		231047				
	Seat	:tle 20 - 48 Ft				
	231.127					

NET AMOUNT

RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

. Î.,	UTD88	Weatght.	111,000.00	LB		
	1.91.4.65	Weight	48,180.00	i.R		
	Next	Westght	62,820.00	1.13	31.41	158
			P	Serie and	111 111 11 11 1 1121	

SITE	TICKET		GRID		
3	56821	ο.	000000		
61-107	0036 GA	WEIGHI	MASTER		
DATE IN	fully 20:	12 3aC	TIME IN CONTR		
DATE OL	n dy 2013	2 9:22	TIME OUT		
VEHICLE 2030			ROLL OFF TOLU424194		
referen i (di_i,	<b>VCE</b>  4 ₀ :2461,946	origin Seattle			

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
31.41	TN	67 C453 Contained in Conta	minated {	Besti I.		
	07/02	/12	•			
		Inbound - RAIL TICKET DTTX430122 Seattle 20 - 48 Ft				

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt. WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1	Gross	Weight	104,480,00	L.E		
	Tarre	Weight	45,480,00	1		
	Net	Weight	59,000.00	LE	29,50	Υ'N

SITE	TICKET	GRID
3	564269	000000
	WEI	GHMASTER
JFO	OORS JANECE F	
DATE IN		TIME IN
1.6	June 2012	1.:28 pm
DATE OI	UT dia	TIME OUT
1.6	June 2012 1	a i-de pom
VEHICLE	1.1.1	ROLL OFF
681	1.	IC\$U4-64-073
REFERE	NCE ORIGIN	
	1 1 / / 2 20105200 200	A=4
TOS	U4-64-073 Seattl	Dec + 1

ατγ.	UNIT		DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
29. 50	TN	67 E451	Contained in Con	tsmi neckerd	Scoi I		
	067.13	Intexand	- RAIL TICKET				
		BNSF230 Seattle	055 - 20 - 48 Ft		20 20		
		217024			Ē.		NET AMO

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1.	Gross	Weight	103,820.00	1.13		
	Tare	Weilight	46,800.00	LE		
	Nert	Weight	57,020.00	L. <u>B</u>	28.51	TN

32	443-		
.,	564273	·	000000
		WEIGHM	ASTER
JP OC	EVAL 2504	DE F	
ATE IN		ľ	TIME IN
1.6	June 201	2 1.	(3(3) porn
ATE OUT			TIME OUT
16 3	une 2012	1. : : :	CB pan
EHIÇLE			ROLL OFF
94,50	ţ		GCEUK-26815
EFEREN	CE ORI	GIN	

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	ΤΟΤΑ
28.51	TN - 67 E4	853 Contained in (	Contaminated	Soi I		
		SCURT - RAIL TICKET SF230011				
	Giese	attle 20 - 48 Ft 2023				NETAM

RABANCO REGIONAL DISPOSAL P.O. ROX 338 Roosevelt, WA 99356 (506) 384-5641

1 Gross Weight 106,220.00 LB

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

QTY.	UNIT		DESCRIPTION	RATE	EXTENSION	TAX	TOTA
3109	TN	67 0453	Contained in Con	tami, nactesd	\$0.i. J.		
	06.71	Inbound DTTX422	- RAIL TICKET 532 - 20`- 48 Ft				

SITE TICKET

3	56428	1). 2)	000000
JF'O	0025 JA		HMASTER
DATE IN	June 2	012 /	TIME IN 2:02 patr
DATE OL	n June 20	12 2	TIME OUT s 23 cm
VEHICLE 9925			BOLL OFF GCEU435218
GCE	NCE UK-35216	ORIGIN Seattl	<b>5</b> 3

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheman Retirement Home of Greater Sea Lutheman Retirement Home of Greater Sea

1.	Grosss	Weight	122,160.00	1.13		
	Tarrea	Weatinghits	45,960,00	1.3		
	Net	Westght	76,200,00	L.E	38.10	Viv

SITE 3	тіскет 564289	2	GRID
JFO	00/25 JA		MASTER
DATE IN	June 2	915 STC	TIME IN 11フロテロ
LG .	n June 20	12 21	TIME OUT 35 joyn
6:1.8:			ROLL OFF GCEU4-26622
GCEI	<ul> <li>Contraction and the second seco</li></ul>	origin Searttle	

QTY.	UNIT		DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
38,10	TN	67 (45)	Contained in Com	ami nacked	Soil		
	. 06/14	Inbound BNSF231	— RAIL TICKET 117 20 — 48 Ft				
		217004					NET AMOL



GOEU4-35/253

000000

GRID

TIME IN

2:17 cm

TIME OUT

ROLL OFF

2:43 pm

WEIGHMASTER

RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

人物も	Jeight.	54 _s 100.0	0 LB 27.05 TN			10	
QTY.	UNIT		DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
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GCEU435253 Seattle

16 June 2012

16 June 2012

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contracts LW-12249

1 Gross Weight 98,620.00 LB Tare Weight 41,540.00 LB Net Weight 57,080.00 LB 28.54 TN

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 Gross Weight 123,800.00 LB Tare Weight 45,800.00 LB Net Weight 78,000.00 LB 39.00 TN

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		cound - RAIL TICKET			
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LU-12249

1 Gross Weight 114,400.00 LB Tare Weight 44,160.00 LB Net Weight 70,240.00 LB 35.12 TN

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RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 Gross Weight 108,220.00 LB Tare Weight 41,680.00 LB Net Weight 66,540.00 LB 33.27 TN

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RABANCO REGIONAL DISPOSAL F.O. BOX 3339 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003

Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1. Grov	ss Weight	104,240,00	1.33		
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N	et Weight	57,720.00	L.E	28.86	TN

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 01088	Weight	112,640,00	1.5	
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea

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P.O. BOX Roosevelt (506) 384 060136 - Lutheran	338 :, WA 94 :-5641 : : : : : : : : : : : : : : : : : : :	_ DISPOSAL		SITE TICKET 56685 JTF000255 J DATE IN 6 JULY 20 VEHICLE 9951 REFERENCE	MRICE F 3012 2:	TIME IN DS (DR) TIME OUT D(R) ROLL OFF	-45020
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RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5644

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contracts 1.W-12249

1 Gross Weight 115,420.00 LB Tare Weight 45,820.00 LB Net Weight 69,600.00 LB 34.80 TN

SITE	TICKET 568552	r);z		GRID 000000	
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1	Grosss	Weight	115,960.00	6.19		
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		BNSF231169 Seattle 20 - 48 Ft				
		217150		11		NET AMOL

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5644

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1 Gross Weight 112,220.00 LB Tare Weight 41,900.00 LB Net Weight 90,320.00 LB 35.16 TN

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LU-12249

1 Gross Weight 105,920.00 LB Tare Weight 45,400.00 LB Net Weight 60,520.00 LB 30.26 TM

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l	24. J	·	1			NET AMO

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1	Gross	Weilght	106,560.00	L.E		
	Tarres	Westght	45,300.00	1.33		
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RABANCO RÉGIONAL DISPOSAL P.O, BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Gross	Weight	101,800.00	LB		
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

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.1.	Gross	Weight	99,880,00	1. E		
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26.36	TN 67 E4	50 Contained in Co	ntaninated	Seri, I.		
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	631.7	281.				NET AMO

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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosmvelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Ц.	Grosss	Weight	118,580,00	1		
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		BNSF231047 Seattle 20 - 48 Ft 217131				

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, NA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

1 Gross	Westght	125,400.00	1.33		
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	07/02	712 Inbound - RAIL TICKET BNSF231047				
		Seattle 20 - 48 Ft				

RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 334-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

	32.28 TN	108,760.00 L 44,200.00 L 64,560,00 L		Tarre
RA	CRIPTION		UNIT	QTY.
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QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
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RABANCO REGIONAL DISPOSAL P.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

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Contract: LW-12249

1 (	Bross.	Weight	97,200,00	1.33		
	Tante	Weight	41,040.00	1.33		
	Net	Weight	56,160,00	L.E	28*08	TN

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NET AMOUNT

RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

Contract: LW-12249

1.	Gross	Weight,	116,920.00	1.13		
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NET AMOUNT

RABANCO REGIONAL DISPOSAL F.O. BOX 338 Roosevelt, WA 99356 (506) 384-5641

060136 - 0003 Lutheran Retirement Home of Greater Sea Lutheran Retirement Home of Greater Sea

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REFERENCE ORIGIN TOLU424194 Seattle					

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31,41	TN	\$7 [45] Contained in Conta	minated {	Besti I.		
	07/02	/1.2				
		Inbound - RAIL TICKET DTTX430122 Seattle 20 - 48 Ft				

#### APPENDIX B GEOENGINEERS, INC. LETTER



Plaza 600 Building 600 Stewart Street, Suite 1700 Seattle, Washington 98101 206.728.2674

August 12, 2011

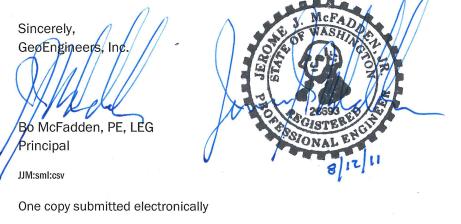
The Hearthstone c/o Ramras Specialty Company 9032 42nd Avenue NE Seattle, Washington 98115-3810

Attention: Dan Ramras

Subject: Excavation Shoring for Phase 1 - Village Cove Project 6850 Woodlawn Avenue NE, Seattle, Washington City of Seattle DPD Permit Nos. 6181172 and 62892375; and SDOT Permit No. 74764 File No. 10367-004-03

This letter presents our opinion regarding the risk associated with further excavation to remove soil below the design subgrade elevation for the Phase 1 shoring installed at the site. The excavation shoring system that has been installed was designed for the current excavation depth of about 15 to 16 feet below street elevation, plus adjacent foundation excavations. This system must not be subjected to additional loads by excavating beyond the design depth. In our opinion, considerable modification to the shoring system would be necessary to extend the depth of excavation beyond the original design depth.

If you have any questions regarding our conclusions and recommendations, please contact me at 206.728.2674.



cc: Bruce Barton/LRS (one copy via email)

Disclaimer: Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.



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#### **APPENDIX C**

#### WASHINGTON STATE DEPARTMENT OF ECOLOGY LETTER



#### STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Ave SE • Bellevue, WA 98008-5452 • 425-649-7000 711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

June 23, 2014

Ms. Mary Lou Stuenzi The Hearthstone Retirement Living 6720 East Green Lake Way North Seattle, WA 98103

#### Re: Phase II Interim Action at The Hearthstone Property

Dear Ms. Stuenzi:

Under the Agreed Order of 2009, The Hearthstone is required to perform interim actions at the Hearthstone property. The Hearthstone completed Phase I interim action, shoring and excavation within the property in 2012, as noted in a letter by the Department of Ecology (Ecology) dated November 12, 2012.

The Hearthstone is currently performing elements of the Phase II interim action listed in the Final Interim Remedial Action Plan dated April 6, 2011, including installation of a permanent dewatering system, vapor barrier, and passive ventilation system as part of the building structure. Also, as part of the Phase II interim action, The Hearthstone is required to excavate PCE contaminated soil in a limited portion of the Woodlawn Right of Way (ROW) adjacent to Hearthstone property as shown in the figure enclosed. The Hearthstone now requests not to excavate the low levels of PCE contaminated soil at the ROW

Ecology agrees to modify the Phase II Interim Action to allow low concentrations of solvent contaminated soil remain in place adjacent to The Hearthstone's property. The remaining solvent contaminated soil will be addressed as part of the final cleanup action for the entire site that includes Plastic Sales property. As part of the final cleanup action, deed restrictions will be placed at The Hearthstone property and Woodlawn ROW, and groundwater monitoring will be required. Potential groundwater treatment for shallow groundwater may also be required as part of the final cleanup actions.

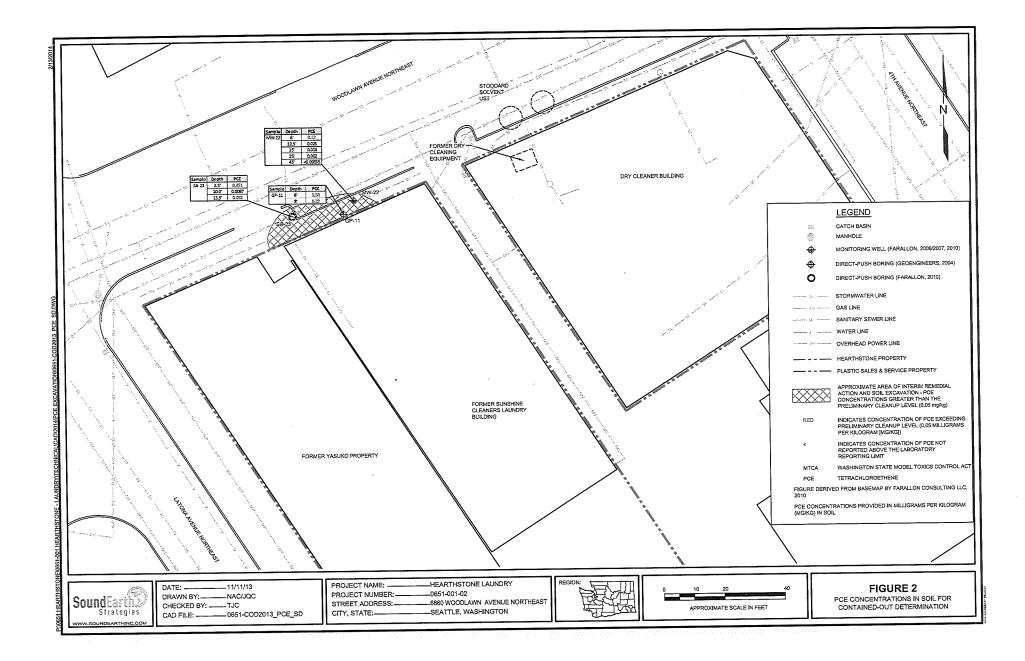
If you have any questions, please contact me at (425) 649-7187 or by email at sunny.becker@ecology.wa.gov.

Sincerely n berke Sunny Becker, P.E.

Toxics Cleanup Program

Enclosure

cc: Ivy Anderson, AAG, Ecology Division



#### APPENDIX D LABORATORY ANALYTICAL REPORTS

Friedman & Bruya, Inc. #803321 Friedman & Bruya, Inc. #803276 Friedman & Bruya, Inc. #805269 Friedman & Bruya, Inc. #903201 Friedman & Bruya, Inc. #903212 Friedman & Bruya, Inc. #903220 Friedman & Bruya, Inc. #903232 Friedman & Bruya, Inc. #909251 Friedman & Bruya, Inc. #909267 Friedman & Bruya, Inc. #903032 Friedman & Bruya, Inc. #909250 Friedman & Bruya, Inc. #909265 Friedman & Bruya, Inc. #109070 Friedman & Bruya, Inc. #111308 ESN Lab Groundwater Friedman & Bruya, Inc. #103245 ESN Lab Soil Friedman & Bruya, Inc. #206321 Friedman & Bruya, Inc. #207045 Friedman & Bruya, Inc. #207045

ESN Lab Stockpile Friedman & Bruya, Inc. #105367 Friedman & Bruya, Inc. #106001 Friedman & Bruya, Inc. #106015 Friedman & Bruya, Inc. #106292 ESN Lab Wastewater Friedman & Bruya, Inc. #106157 Friedman & Bruya, Inc. #107302 Friedman & Bruya, Inc. #109078 Friedman & Bruya, Inc. #105193

#### FRIEDMAN & BRUYA, INC.

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

April 3, 2008

Brett Carp, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Carp:

Included are the results from the testing of material submitted on March 31, 2008 from the SOU_0651-001-02_20080331, F&BI 803321 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SOU0403R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on March 31, 2008 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20080331, F&BI 803321 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Sound Environmental Strategies
803321-01	MW05-20080328
803321-02	MW17-20080328
803321-03	MW18-20080328

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW05-2008 03/31/08 03/31/08 04/01/08 Water ug/L (ppb)	0328	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080331 803321-01 033128.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 96 93 105 122	Lower Limit: 69 67 73 81	Upper Limit: 124 131 132 146
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	2.8 <1 <1 <5 <1 <1 40 <1 <1 110 19		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW17-2008 03/31/08 03/31/08 04/01/08 Water ug/L (ppb)	0328	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080331 803321-02 033129.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 102 97 112 128	Lower Limit: 69 67 73 81	Upper Limit: 124 131 132 146
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW18-2008 03/31/08 03/31/08 04/01/08 Water ug/L (ppb)	0328	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080331 803321-03 033130.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 95 91 106 120	Lower Limit: 69 67 73 81	Upper Limit: 124 131 132 146
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 5.1 520 ve		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW18-2008 03/31/08 03/31/08 04/01/08 Water ug/L (ppb)	0328	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080331 803321-03 1/10 033139.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 95 91 106 120	Lower Limit: 69 67 73 81	Upper Limit: 124 131 132 146
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	<2 <10 <10 <50 <10 <10 <10 <10 <10 <10 <10 650		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applicab 03/31/08 03/31/08 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080331 080489 mb 033117.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 95 92 106 122	Lower Limit: 69 67 73 81	Upper Limit: 124 131 132 146
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 04/03/08 Date Received: 03/31/08 Project: SOU_0651-001-02_20080331, F&BI 803321

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 803327-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	ug/L (ppb)	< 0.2	< 0.2	nm
Chloroethane	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethene	ug/L (ppb)	<1	<1	nm
Methylene chloride	ug/L (ppb)	<5	<5	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethane	ug/L (ppb)	<1	<1	nm
cis-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,2-Dichloroethane (EDC)	ug/L (ppb)	<1	<1	nm
1,1,1-Trichloroethane	ug/L (ppb)	<1	<1	nm
Trichloroethene	ug/L (ppb)	<1	<1	nm
Tetrachloroethene	ug/L (ppb)	<1	<1	nm

Laboratory Code: Laboratory Control Sample

Laboratory Code. Laboratory Cont	i of Dampie		<b>D</b>	<b>D</b> .		
			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	103	102	48-142	1
Chloroethane	ug/L (ppb)	50	100	105	28-161	5
1,1-Dichloroethene	ug/L (ppb)	50	103	102	61-127	1
Methylene chloride	ug/L (ppb)	50	96	95	56-136	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	105	103	78-118	2
1,1-Dichloroethane	ug/L (ppb)	50	100	100	78-117	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	102	101	81-118	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	100	74-128	1
1,1,1-Trichloroethane	ug/L (ppb)	50	105	106	70-135	1
Trichloroethene	ug/L (ppb)	50	100	102	80-114	2
Tetrachloroethene	ug/L (ppb)	50	100	101	83-115	1

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 31, 2008

Brett Carp, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Carp:

Included are the results from the testing of material submitted on March 26, 2008 from the SOU_0651-001-02_20080326, F&BI 803276 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SOU0331R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on March 26, 2008 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20080326 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Sound Environmental Strategies
803276-01	MW17-07
803276-02	MW17-19
803276-03	MW18-13
803276-04	MW18-18

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW17-07 03/26/08 03/27/08 03/28/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080326 803276-01 032715.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze Compounds: Vinyl chloride Chloroethane	ane d4	% Recovery: 100 102 97 102 Concentration mg/kg (ppm) <0.05 <0.5	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.03 < 0.025		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW17-19 03/26/08 03/27/08 03/28/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080326 803276-02 032716.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 113 116 107 113	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.025 $		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW18-13 03/26/08 03/27/08 03/28/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080326 803276-03 032717.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 95 98 93 97	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.12 $		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW18-18 03/26/08 03/27/08 03/28/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080326 803276-04 032718.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 95 100 91 98 Concentration	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.03 0.026		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicabl 03/27/08 03/27/08 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080326 080446 mb 032704.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 84 84 78 84 84	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.025 $		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/31/08 Date Received: 03/26/08 Project: SOU_0651-001-02_20080326

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 803202-38 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	< 0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	< 0.03	< 0.03	nm
Tetrachloroethene	mg/kg (ppm)	< 0.025	< 0.025	nm

Laboratory Code: 803276-01 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	78	44-144
Chloroethane	mg/kg (ppm)	2.5	< 0.5	143	36-161
1,1-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	118	22-144
Methylene chloride	mg/kg (ppm)	2.5	< 0.5	106	39-146
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	90	56-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	< 0.05	94	64-126
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	95	61-138
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	94	68-128
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	96	61-135
Trichloroethene	mg/kg (ppm)	2.5	< 0.03	92	62-132
Tetrachloroethene	mg/kg (ppm)	2.5	< 0.025	94	63-131

#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/31/08 Date Received: 03/26/08 Project: SOU_0651-001-02_20080326

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: Laboratory Control Sample

Laboratory code. Laboratory con	<b>-</b>		Percent	
	Reporting	Spike	Recovery	Acceptance
Analyte	Units	Level	LCS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	76	57-125
Chloroethane	mg/kg (ppm)	2.5	76	43-152
1,1-Dichloroethene	mg/kg (ppm)	2.5	88	60-123
Methylene chloride	mg/kg (ppm)	2.5	91	57-130
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	87	78-118
1,1-Dichloroethane	mg/kg (ppm)	2.5	91	81-116
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	82-118
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	92	82-120
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	92	79-120
Trichloroethene	mg/kg (ppm)	2.5	90	79-115
Tetrachloroethene	mg/kg (ppm)	2.5	94	79-119

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

July 29, 2008

John Funderburk, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Funderburk:

Included are the additional results from the testing of material submitted on May 23, 2008 from the SOU_0651-001-02_20080523, F&BI 805269 project. There are 10 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

alu

Michael Erdahl Project Manager

Enclosures c: Brett Carp, Pete Kingston SOU0729R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on May 23, 2008 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20080523, F&BI 805269 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Sound Environmental Strategies
805269-01	P01-02
805269-02	P01-06
805269-03	P01-08
805269-04	P01-10
805269-05	P01-12
805269-06	P01-13
805269-07	P01-15
805269-08	P02-02
805269-09	P02-05
805269-10	P02-07
805269-11	P02-08
805269-12	P02-10
805269-13	P02-11
805269-14	P03-01
805269-15	P03-03
805269-16	P03-06
805269-17	P03-08
805269-18	P03-12
805269-19	P03-14
805269-20	P04-02
805269-21	P04-04
805269-22	P04-06
805269-23	P04-08
805269-24	P04-10
805269-25	P04-12
805269-26	P05-02
805269-27	P05-04
805269-28	P05-07
805269-29	P05-10
805269-30	P06-02
805269-31	P06-04
805269-32	P06-06
805269-33	P06-08
805269-34	P06-10
805269-35	P06-12
805269-36	P06-14
805269-37	P07-02
805269-38	P07-05

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE (continued)

Laboratory ID	Sound Environmental Strategies
805269-39	P07-07
805269-40	P07-08
805269-41	P07-10
805269-42	P07-12
805269-43	P09-02
805269-44	P09-04
805269-45	P09-06
805269-46	P09-08
805269-47	P09-10
805269-48	P09-12
805269-49	P09-13
805269-50	P10-02
805269-51	P10-04
805269-52	P10-06
805269-53	P10-08
805269-54	P10-10
805269-55	P10-12
805269-56	P10-13

The sample analysis was requested outside of the holding time. The samples were preserved at < -7  $^{\circ}$ C upon receipt until time of extraction.

All other quality control requirements were acceptable.

### ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P01-02 05/23/08 07/24/08 07/24/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-01 072412.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 127 131 136 142	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.05 \end{cases}$		

### ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P02-02 05/23/08 07/24/08 07/24/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-08 072413.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 84 88 86 110	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.05 \end{cases}$		

### ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P03-01 05/23/08 07/24/08 07/24/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-14 072414.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 113 117 121 122	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.03 < 0.05		

### ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P04-02 05/23/08 07/24/08 07/24/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-20 072415.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	·d4	% Recovery: 73 76 70 88	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethan Trichloroethene Tetrachloroethene	ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.03 < 0.05		

### ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260B

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P05-02 05/23/08 07/24/08 07/24/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-26 072416.D GCMS5 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 64 77 60 65	Lower Limit: 42 42 36 50	Upper Limit: 142 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.061 $		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bland Not Applicab 07/24/08 07/24/08 Soil mg/kg (ppm)	le	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 081157 mb 072406.D GCMS5 MB
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
Dibromofluorometh	200	⁷⁰ Recovery. 89	42	142
1,2-Dichloroethane-		93	42	152
Toluene-d8	u4	93 91	42 36	132
4-Bromofluorobenze	200	84	50	149
4-Dromonuorobenze	ene	04	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		<0.5		
trans-1,2-Dichloroe	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/08 Date Received: 05/23/08 Project: SOU_0651-001-02_20080523, F&BI 805269

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 807171-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	< 0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	< 0.03	< 0.03	nm
Tetrachloroethene	mg/kg (ppm)	< 0.025	< 0.025	nm

Laboratory Code: Laboratory Control Sample

iti of Sample					
		Percent	Percent		
Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Units	Level	LCS	LCSD	Criteria	(Limit 20)
mg/kg (ppm)	2.5	92	91	57-125	1
mg/kg (ppm)	2.5	153 vo	151	43-152	1
mg/kg (ppm)	2.5	111	93	60-123	18
mg/kg (ppm)	2.5	88	86	57-130	2
mg/kg (ppm)	2.5	93	90	78-118	3
mg/kg (ppm)	2.5	92	90	81-116	2
mg/kg (ppm)	2.5	97	94	82-118	3
mg/kg (ppm)	2.5	103	102	82-120	1
mg/kg (ppm)	2.5	90	89	79-120	1
mg/kg (ppm)	2.5	95	93	79-115	2
mg/kg (ppm)	2.5	99	98	79-119	1
	Reporting Units mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm) mg/kg (ppm)	Reporting Units         Spike Level           mg/kg (ppm)         2.5           mg/kg (ppm)         2.5	Reporting Units         Spike Level         Percent Recovery LCS           mg/kg (ppm)         2.5         92           mg/kg (ppm)         2.5         153 vo           mg/kg (ppm)         2.5         111           mg/kg (ppm)         2.5         93           mg/kg (ppm)         2.5         93           mg/kg (ppm)         2.5         92           mg/kg (ppm)         2.5         93           mg/kg (ppm)         2.5         92           mg/kg (ppm)         2.5         92           mg/kg (ppm)         2.5         92           mg/kg (ppm)         2.5         92           mg/kg (ppm)         2.5         97           mg/kg (ppm)         2.5         90           mg/kg (ppm)         2.5         90           mg/kg (ppm)         2.5         95	Percent         Percent         Percent           Reporting         Spike         Recovery         Recovery           Units         Level         LCS         LCSD           mg/kg (ppm)         2.5         92         91           mg/kg (ppm)         2.5         153 vo         151           mg/kg (ppm)         2.5         111         93           mg/kg (ppm)         2.5         88         86           mg/kg (ppm)         2.5         93         90           mg/kg (ppm)         2.5         92         90           mg/kg (ppm)         2.5         92         90           mg/kg (ppm)         2.5         97         94           mg/kg (ppm)         2.5         103         102           mg/kg (ppm)         2.5         90         89           mg/kg (ppm)         2.5         95         93	Reporting Units         Spike Level         Recovery LCS         Recovery LCSD         Acceptance Criteria           mg/kg (ppm)         2.5         92         91         57-125           mg/kg (ppm)         2.5         153 vo         151         43-152           mg/kg (ppm)         2.5         111         93         60-123           mg/kg (ppm)         2.5         88         86         57-130           mg/kg (ppm)         2.5         93         90         78-118           mg/kg (ppm)         2.5         97         94         82-118           mg/kg (ppm)         2.5         90         81-116           mg/kg (ppm)         2.5         97         94         82-120           mg/kg (ppm)         2.5         90         89         79-120           mg/kg (ppm)         2.5         95         93         79-115

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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PD1-08		8	AD	요즘 공연 영화 가지	1043											<b></b>	6/3/	08
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PD1-13		B	06 AT		1052		<u></u>							·				·
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P02-02	P02	2	08AD		115			┝╌┠╌┙	·			$\mathbf{\mathbf{Y}}$						
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P03-01	P03	1	14 A4		6937	Soil	4				$\checkmark$				· ·		
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P03-12	· · · ·	12	18 AD		0955						_				<u> </u>	ļ	
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P04-02	P04	2	20 AT	2	0915						$\triangleleft$				ļ	<u> </u>	
P04-04	į	4	21 A'	<u></u>	6920		•	·		(	$\mathbf{S}$						
P04-06		6	2240		0423									•			
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P05-07		7	88A1	)	1224	Į į					X				<b></b>				
05-10	-		29A-1		1237						$\times$				<b> </b>	<b> </b>			
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P06-10			34 ^{AT}		1315.	<u></u>		·								<b></b>			
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P06-14	<b>1</b>	14	3647	<u></u>	1321						$\mathbf{X}$				ļ				
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P07-07	₩	1	39 AT		1203	♥	₩.				X	<u> </u>			<u> </u>	<u>I</u>	•		
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 9, 2008

John Funderburk, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on May 23, 2008 from the SOU_0651-001-02_20080523, F&BI 805269 project. There are 32 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c Pete Kingston, Brett Carp SOU0609R.Doc

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on May 23, 2008 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20080523, F&BI 805269 project. Samples were logged in under the laboratory ID's listed below.

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<u>Laboratory ID</u>	Sound Environmental Strategies
805269-01	P01-02
805269-02	P01-06
805269-03	P01-08
805269-04	P01-10
805269-05	P01-12
805269-06	P01-13
805269-07	P01-15
805269-08	P02-02
805269-09	P02-05
805269-10	P02-07
805269-11	P02-08
805269-12	P02-10
805269-13	P02-11
805269-14	P03-01
805269-15	P03-03
805269-16	P03-06
805269-17	P03-08
805269-18	P03-12
805269-19	P03-14
805269-20	P04-02
805269-21	P04-04
805269-22	P04-06
805269-23	P04-08
805269-24	P04-10
805269-25	P04-12
805269-26	P05-02
805269-27	P05-04
805269-28	P05-07
805269-29	P05-10
805269-30	P06-02
805269-31	P06-04
805269-32	P06-06
805269-33	P06-08
805269-34	P06-10
805269-35	P06-12
805269-36	P06-14
805269-37	P07-02
805269-38	P07-05

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE (continued)

$\begin{array}{r} \underline{\text{Laboratory ID}} \\ 805269-39 \\ 805269-40 \\ 805269-41 \\ 805269-42 \\ 805269-42 \\ 805269-43 \\ 805269-45 \\ 805269-45 \\ 805269-46 \\ 805269-47 \\ 805269-47 \\ 805269-49 \\ 805269-50 \\ 805269-50 \\ 805269-51 \\ 805269-52 \\ 805269-53 \\ 805269-54 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 805269-55 \\ 8$	Sound Environmental Strategies P07-07 P07-08 P07-10 P07-12 P09-02 P09-04 P09-06 P09-08 P09-10 P09-12 P09-13 P10-02 P10-04 P10-06 P10-08 P10-10 P10-12
805269-56	P10-12 P10-13

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P01-06 05/23/08 05/30/08 05/30/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-02 053007.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 57 64 59 94	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.22 $		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P01-15 05/23/08 05/30/08 05/30/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-07 053008.D GCMS4 MB
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
Dibromofluorometh	ane	69	43	128
1,2-Dichloroethane-		76	44	125
Toluene-d8	ui	72	42	130
4-Bromofluorobenze	ene	110	27	154
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		<0.5		
trans-1,2-Dichloroe	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P02-05 05/23/08 05/30/08 05/30/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-09 053009.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 70 75 73 107	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.13 $		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P02-07 05/23/08 06/04/08 06/05/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-10 060423.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 78 74 82 122	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.26 $		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P02-11 05/23/08 05/30/08 05/30/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-13 053010.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 61 68 63 98	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.03 < 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P03-06 05/23/08 06/04/08 06/05/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-16 060424.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 80 77 85 130	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.18 $		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P03-08 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-17 053011.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 66 74 68 112	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.060 $		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P03-14 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-19 053012.D GCMS4 MB
Surrogatas		0/ Decovernu	Lower Limit:	Upper Limit:
Surrogates: Dibromofluorometh	0.200	% Recovery: 77	43	128
1,2-Dichloroethane-		85	43 44	128
	u4		44 42	
Toluene-d8		83		130
4-Bromofluorobenze	ene	115	27	154
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P04-04 05/23/08 06/04/08 06/05/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-21 060425.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 93 89 100 152	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.03 < 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P04-08 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-23 053013.D GCMS4 MB
Cumagatagi		0/ Decovernu	Lower	Upper Limite
Surrogates:		% Recovery:	Limit:	Limit:
Dibromofluorometh		63	43	128
1,2-Dichloroethane-	d4	72	44	125
Toluene-d8		66	42	130
4-Bromofluorobenze	ene	111	27	154
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		<0.5		
trans-1,2-Dichloroe	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P04-12 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-25 053014.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 74 81 79 112	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethan Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.066 $		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P05-04 05/23/08 06/04/08 06/05/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-27 060426.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 96 92 103 162 vo	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.065 $		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P05-07 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-28 053015.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 77 84 80 115	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.094 $		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P05-10 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-29 053016.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 64 73 65 104	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.21 $		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P06-04 05/23/08 06/04/08 06/05/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-31 060427.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 86 82 93 139	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ 0.18 $		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P06-08 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-33 053017.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 77 81 82 118	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.05 \end{aligned}$		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P06-14 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-36 053028.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 72 77 75 110	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.05 \end{aligned}$		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P07-05 05/23/08 06/04/08 06/05/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-38 060428.D GCMS4 MB
Surrogatage		0/ Decovernu	Lower Limit:	Upper Limit:
Surrogates:		% Recovery:		
Dibromofluorometh		78 78	43	128
1,2-Dichloroethane-	04	78	44	125
Toluene-d8		83	42	130
4-Bromofluorobenze	ene	129	27	154
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroet	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P07-07 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-39 053018.D GCMS4 MB
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
Dibromofluorometh		73	43	128
1,2-Dichloroethane-	d4	81	44	125
Toluene-d8		77	42	130
4-Bromofluorobenze	ene	112	27	154
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P07-10 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-41 053019.D GCMS4 MB
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
Dibromofluorometh	ane	73	43	128
1,2-Dichloroethane-	d4	78	44	125
Toluene-d8		76	42	130
4-Bromofluorobenze	ene	112	27	154
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroet	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P09-08 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-46 053020.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 74 80 79 118	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.05 \end{aligned}$		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P09-13 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-49 053021.D GCMS4 MB
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
Dibromofluorometh	200	73	43	128
1,2-Dichloroethane-		81	44	125
Toluene-d8	u-i	78	42	130
4-Bromofluorobenze	ne	116	27	154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P10-08 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-53 053025.D GCMS4 MB
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
Dibromofluorometh		76	43	128
1,2-Dichloroethane-	d4	79	44	125
Toluene-d8		77	42	130
4-Bromofluorobenze	ene	117	27	154
Commente		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P10-10 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm)	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-54 053026.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 77 82 80 122	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.03 < 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P10-13 05/23/08 05/30/08 05/31/08 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 805269-56 053027.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	d4	% Recovery: 76 81 80 118	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.05 \end{aligned}$		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blan Not Applicab 06/04/08 06/04/08 Soil mg/kg (ppm)	le	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 080855 mb 060406.D GCMS4 MB
<b>G</b>		04 D	Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
Dibromofluorometh		66	43	128
1,2-Dichloroethane-	d4	67	44	125
Toluene-d8		66	42	130
4-Bromofluorobenze	ene	73	27	154
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe	thene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroethe	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha		< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.05		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 05/30/08 05/30/08 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20080523 080802 mb 053006.D GCMS4 MB
Surrogates: Dibromofluorometh 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze	ane d4	% Recovery: 68 72 70 104	Lower Limit: 43 44 42 27	Upper Limit: 128 125 130 154
Compounds:	(	Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene		<0.05 <0.5 <0.05		
Methylene chloride trans-1,2-Dichloroe	thene	<0.05 <0.5 <0.05		
1,1-Dichloroethane cis-1,2-Dichloroethe		<0.05 <0.05		
1,2-Dichloroethane 1,1,1-Trichloroethau		<0.05 <0.05		
Trichloroethene Tetrachloroethene		<0.03 <0.05		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/09/08 Date Received: 05/23/08 Project: SOU_0651-001-02_20080523, F&BI 805269

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 806015-06 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	< 0.03	< 0.03	nm
Tetrachloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	113	103	22-139	9
Chloroethane	mg/kg (ppm)	2.5	132	171 vo	38-142	26 vo
1,1-Dichloroethene	mg/kg (ppm)	2.5	99	89	46-132	11
Methylene chloride	mg/kg (ppm)	2.5	92	87	46-131	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	109	102	67-120	7
1,1-Dichloroethane	mg/kg (ppm)	2.5	109	104	77-117	5
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	108	102	75-122	6
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	109	106	74-122	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	112	105	74-125	6
Trichloroethene	mg/kg (ppm)	2.5	106	101	76-119	5
Tetrachloroethene	mg/kg (ppm)	2.5	109	104	79-127	5

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/09/08 Date Received: 05/23/08 Project: SOU_0651-001-02_20080523, F&BI 805269

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260B

Laboratory Code: 805320-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	< 0.03	< 0.03	nm
Tetrachloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	76	73	22-139	4
Chloroethane	mg/kg (ppm)	2.5	63	61	38-142	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	60	60	46-132	0
Methylene chloride	mg/kg (ppm)	2.5	74	73	46-131	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	88	84	67-120	5
1,1-Dichloroethane	mg/kg (ppm)	2.5	87	85	77-117	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	94	75-122	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	82	80	74-122	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	94	91	74-125	3
Trichloroethene	mg/kg (ppm)	2.5	93	91	76-119	2
Tetrachloroethene	mg/kg (ppm)	2.5	112	108	79-127	4

#### ENVIRONMENTAL CHEMISTS

#### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probablility.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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P06-12		12	35A1	2	1318												ļ	
P06-14	1	14	36A1	>	1321	·				<u> </u>		$\times$				ļ	<u> </u>	
P07-02	Pot	2	37A7	/	1156	_												
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P10-04		4	51AT		0913											
P10-06		6	5241	1	0915	<u> </u>	V									l
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Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			]	Notes
P10-08	PID.	8	5-347	5-B-08	0920	50.1	4				×			-			
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 27, 2009

Corey League, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Ms. League:

Included are the results from the testing of material submitted on March 20, 2009 from the SOU_0651-001-02_20090320, F&BI 903201 project. There are 8 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Andrea Liljegren SOU0327R.doc

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on March 20, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090320, F&BI 903201 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Sound Environmental Strategies
903201-01	Drain1-Start@2'-20090320
903201-02	Drain1-Midpoint@2'-20090320
903201-03	Drain1-Endpoint@2'-20090320
903201-04	Drain2-Midpoint@2'-20090320

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

< 0.05

Tetrachloroethene

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Drain1-Start@ 03/20/09 03/23/09 03/23/09 Soil mg/kg (ppm)	92 ['] -20090320	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090320, F&BI 903201 903201-01 032313.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	6 Recovery: 113 113 108	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		oncentration ng/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Drain1-Midp 03/20/09 03/23/09 03/23/09 Soil mg/kg (ppm)	oint@2'-20090320	) Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090320, F&BI 903201 903201-02 032314.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	% Recovery: 141 139 138	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroeth 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.05		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Drain1-Endpo 03/20/09 03/23/09 03/23/09 Soil mg/kg (ppm)	int@2'-2009032(	) Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090320, F&BI 903201 903201-03 032315.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	6 Recovery: 138 134 127	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		oncentration ng/kg (ppm)		
Vinyl chloride Chloroethane		<0.05 <0.5		
1,1-Dichloroethene		<0.05		
Methylene chloride		<0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		<0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene Tetrachloroethene		<0.03 <0.05		
renaciioroeniene		-0.00		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Drain2-Midp 03/20/09 03/23/09 03/23/09 Soil mg/kg (ppm)	oint@2'-20090320	) Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090320, F&BI 903201 903201-04 032316.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	% Recovery: 180 vo 176 vo 173 vo	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e thene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.05		

## ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

< 0.05

Tetrachloroethene

×

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blar Not Applicab 03/23/09 03/23/09 Soil mg/kg (ppm)	ble	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090320, F&BI 903201 090371 mb 032306.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 88 92 105	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/27/09 Date Received: 03/20/09 Project: SOU_0651-001-02_20090320, F&BI 903201

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 903171-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	< 0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	0.12	0.12	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	15	15	0
Tetrachloroethene	mg/kg (ppm)	< 0.025	< 0.025	nm

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	96	90	57-125	6
Chloroethane	mg/kg (ppm)	2.5	135	128	43 - 152	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	81	80	60-123	1
Methylene chloride	mg/kg (ppm)	2.5	79	75	57-130	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	82	78-118	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	83	81	81-116	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	83	82-118	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	88	86	82-120	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	89	86	79-120	3
Trichloroethene	mg/kg (ppm)	2.5	81	80	79-115	1
Tetrachloroethene	mg/kg (ppm)	2.5	91	89	79-119	2

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr - The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 26, 2009

Corey League, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. League:

Included are the results from the testing of material submitted on March 23, 2009 from the SOU_0651-001-02_20090323, F&BI 903212 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Andrea Liljegren SOU0326R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on March 23, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090323, F&BI 903212 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Sound Environmental Strategies
903212-01	Sump1@5'-20090323
903212-02	Sump2@5'-20090323

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Sump1@5'-2 03/23/09 03/24/09 03/24/09 Soil mg/kg (ppn		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090323 903212-01 032405.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 105 105 99	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.05		

### ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

Tetrachloroethene

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Sump2@5'-: 03/23/09 03/24/09 03/24/09 Soil mg/kg (ppn		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090323 903212-02 032406.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 88 87 82	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane	e thene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03		

< 0.05

## ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

Tetrachloroethene

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 03/24/09 03/24/09 Soil mg/kg (ppm	ble	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090323 090371 mb2 032404.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 86 92 105	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroeth 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03		

< 0.05

#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/26/09 Date Received: 03/23/09 Project: SOU_0651-001-02_20090323, F&BI 903212

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 903171-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	<0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	<0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	0.12	0.12	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	15	15	0
Tetrachloroethene	mg/kg (ppm)	< 0.025	< 0.025	nm

Laboratory Code: Laboratory Control Sample

	Ĩ		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	$\operatorname{RPD}$
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	96	90	57-125	6
Chloroethane	mg/kg (ppm)	2.5	135	128	43 - 152	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	81	80	60-123	1
Methylene chloride	mg/kg (ppm)	2.5	79	75	57-130	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	82	78-118	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	83	81	81-116	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	83	82-118	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	88	86	82-120	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	89	86	79-120	3
Trichloroethene	mg/kg (ppm)	2.5	81	80	79-115	1
Tetrachloroethene	mg/kg (ppm)	2.5	91	89	79-119	2

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

 $\rm pr-The\ sample\ was\ received\ with\ incorrect\ preservation.$  The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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Sample ID	Lab ID	Date	Time	Sample Type	# of containers	TPH-Dicsel	TPH-Gasoline	BTEX by 8021B	HVOCs by 8260	SVOCs by 8270	HFS						Notes
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 27, 2009

Corey League, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. League:

Included are the results from the testing of material submitted on March 24, 2009 from the SOU_0651-001-02_20090324, F&BI 903220 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Andrea Liljegren SOU0327R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on March 24, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090324, F&BI 903220 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Sound Environmental Strategies
903220-01	Sump3@6'-20090324
903220-02	Slab2@5'-20090324

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Sump3@6'-2 03/24/09 03/24/09 03/24/09 Soil mg/kg (ppm		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090324 903220-01 032409.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 97 96 94	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroeth 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.05		

### ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Slab2@5'-20 03/24/09 03/24/09 03/24/09 Soil mg/kg (ppn		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090324 903220-02 032410.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 107 105 100	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroeth 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene e (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.05		

# ENVIRONMENTAL CHEMISTS

## Analysis For Volatile Compounds By EPA Method 8260C

Tetrachloroethene

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 03/23/09 03/24/09 Soil mg/kg (ppm	ble	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090324 090371 mb 032404.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 86 92 105	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03	2	

< 0.05

#### ENVIRONMENTAL CHEMISTS

#### Date of Report: 03/27/09 Date Received: 03/24/09 Project: SOU_0651-001-02_20090324, F&BI 903220

## QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 903171-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	< 0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	0.12	0.12	0
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	15	15	0
Tetrachloroethene	mg/kg (ppm)	< 0.025	< 0.025	nm

Laboratory Code: Laboratory Control Sample

and a final state of the second s	Reporting	Spike	Percent Recovery	Percent Recovery	Accontance	RPD
Ameliate	Units			0	Acceptance	
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	96	90	57 - 125	6
Chloroethane	mg/kg (ppm)	2.5	135	128	43 - 152	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	81	80	60-123	1
Methylene chloride	mg/kg (ppm)	2.5	79	75	57-130	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	82	78-118	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	83	81	81-116	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	83	82-118	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	88	86	82-120	2
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	89	86	79-120	3
Trichloroethene	mg/kg (ppm)	2.5	81	80	79-115	1
Tetrachloroethene	mg/kg (ppm)		91	89	79-119	2

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

 $\rm nm$  - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr-The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sample	a	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	1	1	T.	QUE	STEI		Note
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 30, 2009

Corey League, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. League:

Included are the results from the testing of material submitted on March 25, 2009 from the SOU_0651-001-02_20090325, F&BI 903232 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Andrea Liljegren SOU0330R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on March 25, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090325, F&BI 903232 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Sound Environmental Strategies
903232-01	Alleyway drain@3.5'-20090325

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Alleyway dra 03/25/09 03/26/09 03/26/09 Soil mg/kg (ppm)	n@3.5'-20090325	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090325, F&BI 903232 903232-01 032607.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	% Recovery: 103 106 101	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		oncentration ng/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.025		

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 03/26/09 03/26/09 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090325, F&BI 903232 090411 mb 032606.D GCMS5 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	Recovery: 89 97 113	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		centration /kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		
1,1,1-Trichloroetha Trichloroethene Tetrachloroethene	ne	<0.05 <0.03 <0.025		

#### ENVIRONMENTAL CHEMISTS

#### Date of Report: 03/30/09 Date Received: 03/25/09 Project: SOU_0651-001-02_20090325, F&BI 903232

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 903222-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	< 0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	< 0.03	< 0.03	nm
Tetrachloroethene	mg/kg (ppm)	< 0.025	< 0.025	nm

Laboratory Code: Laboratory Control Sample

Laboratory couct Laboratory	r		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	74	73	57-125	1
Chloroethane	mg/kg (ppm)	2.5	99	115	43-152	15
1,1-Dichloroethene	mg/kg (ppm)	2.5	84	79	60-123	6
Methylene chloride	mg/kg (ppm)	2.5	80	75	57-130	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	89	88	78-118	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	85	84	81-116	1
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	88	87	82-118	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	85	85	82-120	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	92	91	79-120	1
Trichloroethene	mg/kg (ppm)	2.5	85	84	79-115	1
Tetrachloroethene	mg/kg (ppm)	2.5	95	94	79-119	1

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j - The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

 $\rm pr-The\ sample\ was\ received\ with\ incorrect\ preservation.$  The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 30, 2009

John Funderburk, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on September 24, 2009 from the SOU_0651-001-02_20090924, F&BI 909251 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Tom Cammarata SOU0930R.DOC

#### CASE NARRATIVE

This case narrative encompasses samples received on September 24, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909251 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u> 909251-01	Sound Environmental Strategies P11-05
909251-02	P11-07.5
909251-03	P11-09
909251-04	P11-12
909251-05	P11-15
909251-06	P11-17
909251-07	P11-20
909251-08	P12-05
909251-09	P12-06
909251-10	P12-09
909251-11	P12-12
909251-12	P12-14
909251-13	P12-17
909251-14	P12-14.5
909251-15	P12-20

The 8260C vinyl chloride laboratory control sample failed the acceptance criteria for the laboratory control sample. The data were flagged accordingly. All other quality control requirements were acceptable.

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P11-07.5 09/24/09 09/25/09 09/27/09 Soil mg/kg (pp)	m)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909251 909251-02 092633.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	110	42	152
Toluene-d8		108	36	149
4-Bromofluorobenz	ene	118	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		<0.05 jl		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride	e e e e e e e e e e e e e e e e e e e	< 0.5		
trans-1,2-Dichloroe	ethene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth	ene	0.34		
1,2-Dichloroethane	(EDC)	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		0.99		
Tetrachloroethene		0.77		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P11-09 09/24/09 09/25/09 09/27/09 Soil mg/kg (pp)	m)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909251 909251-03 092634.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	109	42	152
Toluene-d8		109	36	149
4-Bromofluorobenz	ene	116	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		<0.05 jl		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		0.94		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P11-12 09/24/09 09/25/09 09/27/09 Soil mg/kg (ppn	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909251 909251-04 092635.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluoroben:		% Recovery: 107 111 118	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chlorid trans-1,2-Dichloro 1,1-Dichloroethane cis-1,2-Dichloroeth	e ethene e	<0.05 jl <0.5 <0.05 <0.5 <0.05 <0.05 <0.05 0.44		
1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e (EDC) ane	<0.44 <0.05 <0.05 0.072 0.48		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P12-09 09/24/09 09/25/09 09/27/09 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909251 909251-10 092636.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	e-d4	% Recovery: 108 109 107	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroeth 1,2-Dichloroethane 1,1,1-Trichloroetha Trichloroethene	e ethene e ene e (EDC)	<0.05 jl <0.5 <0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P12-12 09/24/09 09/25/09 09/27/09 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909251 909251-11 092637.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 100 100 108	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.05 jl <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.025		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P12-14 09/24/09 09/25/09 09/27/09 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909251 909251-12 092638.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	e-d4	% Recovery: 109 109 116	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		oncentration ng/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene e ene e (EDC)	<0.05 jl <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.025		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 09/25/09 09/26/09 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909251 091374 mb 092613.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	Recovery: 100 101 101	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene a (EDC)	<0.05 jl <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.025		

Date of Report: 09/30/09 Date Received: 09/24/09 Project: SOU_0651-001-02_20090924, F&BI 909251

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 909162-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	< 0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	< 0.03	< 0.03	nm
Tetrachloroethene	mg/kg (ppm)	< 0.025	< 0.025	nm

Laboratory Code: Laboratory Control Sample

Laboratory coue. Laboratory c	ond of Bumpie		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	62	31 vo	39-130	67 vo
Chloroethane	mg/kg (ppm)	2.5	87	62	10-281	34 vo
1,1-Dichloroethene	mg/kg (ppm)	2.5	68	64	60-130	6
Methylene chloride	mg/kg (ppm)	2.5	75	80	48-139	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	85	84	74-124	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	88	88	75-121	0
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	88	90	75-123	2
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	90	93	74-122	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	92	93	73-134	1
Trichloroethene	mg/kg (ppm)	2.5	92	94	75-120	2
Tetrachloroethene	mg/kg (ppm)		89	91	80-120	2

## **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$  - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

October 6, 2009

John Funderburk, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Funderburk:

Included are the additional results from the testing of material submitted on September 25, 2009 from the SOU_0651-001-02_20090925, F&BI 909267 project. There are 5 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Tom Cammarata SOU1006R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on September 25, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Sound Environmental Strategies
909267-01	P13-03
909267-02	P13-05.5
909267-03	P13-07.5
909267-04	P13-11
909267-05	P13-16
909267-06	P13-19.5
909267-07	P14-05
909267-08	P14-07
909267-09	P14-10
909267-10	P14-14
909267-11	P14-17
909267-12	P14-20
909267-13	P15-06
909267-14	P15-09
909267-15	P15-13
909267-16	P15-16
909267-17	P15-20.5
909267-18	P16-05
909267-19	P16-08
909267-20	P16-12.5
909267-21	P16-18
909267-22	P16-20.5
909267-23	P17-04
909267-24	P17-09
909267-25	P17-13
909267-26	P17-17.5

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P17-17.5 09/25/09 10/02/09 10/02/09 Soil mg/kg (ppn	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925 909267-26 100218.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 91 98 116	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		<0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ine	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 10/02/09 10/02/09 Soil mg/kg (ppm	ble	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925 091383 mb 100204.D GCMS4 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	d4	99	62	142
Toluene-d8	-44	113	55	145
4-Bromofluorobenz	zene	131	65	139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene	•	< 0.05		
Methylene chloride	e	< 0.5		
trans-1,2-Dichloroe	ethene	< 0.05		
1,1-Dichloroethane	•	< 0.05		
cis-1,2-Dichloroeth	ene	< 0.05		
1,2-Dichloroethane	e (EDC)	< 0.05		
1,1,1-Trichloroetha	nne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/09 Date Received: 09/25/09 Project: SOU_0651-001-02_20090925, F&BI 909267

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 910011-06 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	< 0.05	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	< 0.03	< 0.03	nm
Tetrachloroethene	mg/kg (ppm)	< 0.025	< 0.025	nm

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	67	73	22-139	9
Chloroethane	mg/kg (ppm)	2.5	68	65	38-142	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	77	78	75-132	1
Methylene chloride	mg/kg (ppm)	2.5	87	86	74-131	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	84	85	67-127	1
1,1-Dichloroethane	mg/kg (ppm)	2.5	90	92	71-124	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	95	77-125	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	93	93	74-122	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	92	94	74-125	2
Trichloroethene	mg/kg (ppm)	2.5	92	93	73-122	1
Tetrachloroethene	mg/kg (ppm)	2.5	98	99	79-127	1

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$  - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	NWTPH-Dx	NWTPH-Gx	BTEX by 8021B	VOC's by 8260	SVOC's by 8270	RCRA-8 Metals			. ]	Notes
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 30, 2009

John Funderburk, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on September 25, 2009 from the SOU_0651-001-02_20090925, F&BI 909267 project. There are 19 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Tom Cammarata SOU0930R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on September 25, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Sound Environmental Strategies
909267-01	P13-03
909267-02	P13-05.5
909267-03	P13-07.5
909267-04	P13-11
909267-05	P13-16
909267-06	P13-19.5
909267-07	P14-05
909267-08	P14-07
909267-09	P14-10
909267-10	P14-14
909267-11	P14-17
909267-12	P14-20
909267-13	P15-06
909267-14	P15-09
909267-15	P15-13
909267-16	P15-16
909267-17	P15-20.5
909267-18	P16-05
909267-19	P16-08
909267-20	P16-12.5
909267-21	P16-18
909267-22	P16-20.5
909267-23	P17-04
909267-24	P17-09
909267-25	P17-13
909267-26	P17-17.5

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P13-07.5 09/25/09 09/28/09 09/28/09 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-03 092818.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8		% Recovery: 96 96	Lower Limit: 42 36	Upper Limit: 152 149
4-Bromofluorobenz	zene	101 Concentration	50	150
Compounds: Vinyl chloride Chloroethane		mg/kg (ppm) <0.05 <0.5		
1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe	e	<0.05 <0.5 <0.05		
1,1-Dichloroethane cis-1,2-Dichloroeth	ene	<0.05 <0.05		
1,2-Dichloroethane 1,1,1-Trichloroetha Trichloroethene Tetrachloroethene		<0.05 <0.05 <0.03 0.039		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P13-11 09/25/09 09/28/09 09/28/09 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-04 092819.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	103	42	152
Toluene-d8		104	36	149
4-Bromofluorobenz	zene	107	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		<0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P13-16 09/25/09 09/28/09 09/28/09 Soil mg/kg (pp)	m)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-05 092820.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	97	42	152
Toluene-d8		98	36	149
4-Bromofluorobenz	zene	101	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		0.028		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P14-05 09/25/09 09/28/09 09/28/09 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-07 092821.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	102	42	152
Toluene-d8		102	36	149
4-Bromofluorobenz	ene	107	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride	e e e e e e e e e e e e e e e e e e e	< 0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P14-10 09/25/09 09/28/09 09/28/09 Soil mg/kg (pp)	m)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-09 092822.D GCMS5 VM
Surrogates: 1,2-Dichloroethane	44	% Recovery: 99	Lower Limit: 42	Upper Limit: 152
Toluene-d8	-04	103	42 36	149
4-Bromofluorobenz	zene	104	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ine	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		0.35		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P14-14 09/25/09 09/28/09 09/28/09 Soil mg/kg (pp)	m)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-10 092823.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	93	42	152
Toluene-d8		95	36	149
4-Bromofluorobenz	ene	96	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride	9	< 0.5		
trans-1,2-Dichloroe	ethene	< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		0.087		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P15-06 09/25/09 09/28/09 09/28/09 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-13 092824.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 89 90 92	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene e ene e (EDC) ane	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.025 $		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P15-09 09/25/09 09/28/09 09/28/09 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-14 092825.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 98 101 102	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene e ene e (EDC) ane	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.025 $		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P15-13 09/25/09 09/28/09 09/28/09 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-15 092826.D GCMS5 VM
Surrogates:	1.4	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane Toluene-d8	-d4	101 107	42 36	152 149
4-Bromofluorobenz	ene	107	50 50	149
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane	. ,	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P16-08 09/25/09 09/28/09 09/28/09 Soil mg/kg (pp)	m)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-19 092827.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	97	42	152
Toluene-d8		99	36	149
4-Bromofluorobenz	ene	100	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P16-12.5 09/25/09 09/28/09 09/28/09 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-20 092828.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 93 96 99	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene e ene e (EDC) ane	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.03 \\ < 0.025 $		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P16-18 09/25/09 09/28/09 09/29/09 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-21 092829.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	98	42	152
Toluene-d8		99	36	149
4-Bromofluorobenz	ene	102	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride		< 0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane	. ,	< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P17-04 09/25/09 09/28/09 09/29/09 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-23 092830.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8	-d4	% Recovery: 89 91	Lower Limit: 42 36	Upper Limit: 152 149
4-Bromofluorobenz	ene	90	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride trans-1,2-Dichloroe		<0.5 <0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene Tetrachloroethene		< 0.03		
retracmoroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P17-09 09/25/09 09/28/09 09/29/09 Soil mg/kg (pp:	m)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-24 092831.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	109	42	152
Toluene-d8	, ui	110	36	149
4-Bromofluorobenz	zene	110	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		< 0.5		
1,1-Dichloroethene	•	< 0.05		
Methylene chloride	e	< 0.5		
trans-1,2-Dichloro	ethene	< 0.05		
1,1-Dichloroethane	<u>.</u>	< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ine	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		0.048		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P17-13 09/25/09 09/28/09 09/29/09 Soil mg/kg (pp)	m)	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 909267-25 092832.D GCMS5 VM
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	94	42	152
Toluene-d8		97	36	149
4-Bromofluorobenz	ene	100	50	150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
Chloroethane		<0.5		
1,1-Dichloroethene		< 0.05		
Methylene chloride	e	< 0.5		
trans-1,2-Dichloroe		< 0.05		
1,1-Dichloroethane		< 0.05		
cis-1,2-Dichloroeth		< 0.05		
1,2-Dichloroethane		< 0.05		
1,1,1-Trichloroetha	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		0.11		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 09/28/09 09/28/09 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909267 091376 mb 092817.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	e-d4	90 90 90 91	Lower Limit: 42 36 50	Upper Limit: 152 149 150
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene e ene e (EDC) ane	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.03 <0.025		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/09 Date Received: 09/25/09 Project: SOU_0651-001-02_20090925, F&BI 909267

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 909267-25 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	mg/kg (ppm)	< 0.05	< 0.05	nm
Chloroethane	mg/kg (ppm)	< 0.5	< 0.5	nm
1,1-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
Methylene chloride	mg/kg (ppm)	< 0.5	< 0.5	nm
trans-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1-Dichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
cis-1,2-Dichloroethene	mg/kg (ppm)	< 0.05	< 0.05	nm
1,2-Dichloroethane (EDC)	mg/kg (ppm)	< 0.05	< 0.05	nm
1,1,1-Trichloroethane	mg/kg (ppm)	< 0.05	< 0.05	nm
Trichloroethene	mg/kg (ppm)	< 0.03	< 0.03	nm
Tetrachloroethene	mg/kg (ppm)	0.11	0.11	0

Laboratory Code: Laboratory Control Sample

Laboratory coue: Laboratory e	oneror sumpre		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	72	70	39-130	3
Chloroethane	mg/kg (ppm)	2.5	96	91	10-281	5
1,1-Dichloroethene	mg/kg (ppm)	2.5	80	78	60-130	3
Methylene chloride	mg/kg (ppm)	2.5	87	86	48-139	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	96	93	74-124	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	101	97	75-121	4
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	97	96	75-123	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	101	98	74-122	3
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	105	100	73-134	5
Trichloroethene	mg/kg (ppm)		103	101	75-120	2
Tetrachloroethene	mg/kg (ppm)		99	97	80-120	2

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$  - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 11, 2009

Tom Cammarata, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on March 4, 2009 from the SOU_0651-001-02_20090304, F&BI 903032 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: David Buser, Pete Kingston SOU0311R.DOC

### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on March 4, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090304, F&BI 903032 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Sound Environmental Strategies
903032-01	MW19-20090304
903032-02	MW24-20090304

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW19-200 03/04/09 03/04/09 03/04/09 Water ug/L (ppb)	90304	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090304, F&BI 903032 903032-01 030406.D GCMS4 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 103 106 124	Lower Limit: 58 59 45	Upper Limit: 118 117 141
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW24-200 03/04/09 03/04/09 03/04/09 Water ug/L (ppb)	90304	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090304, F&BI 903032 903032-02 030408.D GCMS4 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 101 106 126	Lower Limit: 58 59 45	Upper Limit: 118 117 141
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 2.3 320 ve		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW24-2009 03/04/09 03/06/09 03/06/09 Water ug/L (ppb)	90304	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090304, F&BI 903032 903032-02 1/10 030620.D GCMS4 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 99 100 104	Lower Limit: 58 59 45	Upper Limit: 118 117 141
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride		<2		
Chloroethane		<10		
1,1-Dichloroethene		<10		
Methylene chloride	•	<50		
trans-1,2-Dichloroe	ethene	<10		
1,1-Dichloroethane		<10		
cis-1,2-Dichloroeth	ene	<10		
1,2-Dichloroethane	(EDC)	<10		
1,1,1-Trichloroetha	ne	<10		
Trichloroethene		<10		
Tetrachloroethene		290		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 03/04/09 03/04/09 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090304, F&BI 903032 090272 mb 030405.D GCMS4 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 100 108 125	Lower Limit: 58 59 45	Upper Limit: 118 117 141
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 03/06/09 03/06/09 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090304, F&BI 903032 090314 mb 030619.D GCMS4 MB
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 92 96 98	Lower Limit: 58 59 45	Upper Limit: 118 117 141
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride		<0.2		
Chloroethane		<1		
1,1-Dichloroethene		<1		
Methylene chloride		<5		
trans-1,2-Dichloroe		<1		
1,1-Dichloroethane		<1		
cis-1,2-Dichloroeth		<1		
1,2-Dichloroethane		<1		
1,1,1-Trichloroetha	ne	<1		
Trichloroethene		<1		
Tetrachloroethene		<1		

#### ENVIRONMENTAL CHEMISTS

#### Date of Report: 03/11/09 Date Received: 03/04/09 Project: SOU_0651-001-02_20090304, F&BI 903032

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 903032-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	ug/L (ppb)	< 0.2	< 0.2	nm
Chloroethane	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethene	ug/L (ppb)	<1	<1	nm
Methylene chloride	ug/L (ppb)	<5	<5	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethane	ug/L (ppb)	<1	<1	nm
cis-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,2-Dichloroethane (EDC)	ug/L (ppb)	<1	<1	nm
1,1,1-Trichloroethane	ug/L (ppb)	<1	<1	nm
Trichloroethene	ug/L (ppb)	<1	<1	nm
Tetrachloroethene	ug/L (ppb)	<1	<1	nm

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	127	121	33-158	5
Chloroethane	ug/L (ppb)	50	143	135	35-157	6
1,1-Dichloroethene	ug/L (ppb)	50	105	102	55-139	3
Methylene chloride	ug/L (ppb)	50	99	97	52-129	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	96	73-120	2
1,1-Dichloroethane	ug/L (ppb)	50	102	100	75-118	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	96	78-119	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	109	107	74-129	2
1,1,1-Trichloroethane	ug/L (ppb)	50	116	112	68-130	4
Trichloroethene	ug/L (ppb)	50	101	99	76-118	2
Tetrachloroethene	ug/L (ppb)	50	100	97	79-119	3

#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/11/09 Date Received: 03/04/09 Project: SOU_0651-001-02_20090304, F&BI 903032

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 903007-10 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	ug/L (ppb)	< 0.2	< 0.2	nm
Chloroethane	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethene	ug/L (ppb)	<1	<1	nm
Methylene chloride	ug/L (ppb)	<5	<5	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethane	ug/L (ppb)	<1	<1	nm
cis-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,2-Dichloroethane (EDC)	ug/L (ppb)	<1	<1	nm
1,1,1-Trichloroethane	ug/L (ppb)	<1	<1	nm
Trichloroethene	ug/L (ppb)	<1	<1	nm
Tetrachloroethene	ug/L (ppb)	<1	<1	nm

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	92	100	33-158	8
Chloroethane	ug/L (ppb)	50	94	100	35-157	6
1,1-Dichloroethene	ug/L (ppb)	50	91	98	55-139	7
Methylene chloride	ug/L (ppb)	50	91	98	52-129	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	93	99	73-120	6
1,1-Dichloroethane	ug/L (ppb)	50	95	101	75-118	6
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	108	78-119	7
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	93	98	74-129	5
1,1,1-Trichloroethane	ug/L (ppb)	50	99	106	68-130	7
Trichloroethene	ug/L (ppb)	50	97	105	76-118	8
Tetrachloroethene	ug/L (ppb)	50	97	108	79-119	11

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

 ${\bf b}$  - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc - The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$  - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

<u>903032</u> Send Report To <u>T.</u> <u>Camp</u> Company <u>SES</u> Address <u>2400 A.rp</u> City, Sinte, ZIP <u>Sec He</u>	ort way	<u>`                                    </u>	t-290	REMARKS	AEANO. Hone P	kj rof	22 مح ا	4		065	<b>PO#</b>	¥-02		□ Stan 25RUS Rush c	TURI Idard ( SH barges SAb	VAROUN 2 Wocks) authorize PLE DIS 191.E DIS	d by: POSAL
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 30, 2009

John Funderburk, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on September 24, 2009 from the SOU_0651-001-02_20090924, F&BI 909250 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Tom Cammarata

#### CASE NARRATIVE

This case narrative encompasses samples received on September 24, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909250 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	Sound Environmental Strategies
909250-01	P11-20090924
909250-02	P12-20090924

All quality control requirements were acceptable.

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P11-200909 09/24/09 09/25/09 09/25/09 Water ug/L (ppb)	24	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909250 909250-01 092512.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 112 104 84	Lower Limit: 65 69 77	Upper Limit: 127 127 156
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	1.3 <1 <5 <1 <1 36 <1 <1 16 87		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P12-200909 09/24/09 09/25/09 09/25/09 Water ug/L (ppb)	24	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909250 909250-02 092513.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 112 106 85	Lower Limit: 65 69 77	Upper Limit: 127 127 156
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 5.0		

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 09/25/09 09/25/09 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090924, F&BI 909250 091373 mb 092506.D GCMS5 VM
Surrogates: 1,2-Dichloroethane Toluene-d8		% Recovery: 110 106	Lower Limit: 65 69	Upper Limit: 127 127
4-Bromofluorobenz Compounds:	ene	87 Concentration ug/L (ppb)	77	156
Vinyl chloride Chloroethane		<0.2 <1		
1,1-Dichloroethene Methylene chloride	<u>e</u>	<1 <5		
trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroeth		<1 <1 <1		
1,2-Dichloroethane 1,1,1-Trichloroetha Trichloroethene		<1 <1 <1		
Tetrachloroethene		<1		

Date of Report: 09/30/09 Date Received: 09/24/09 Project: SOU_0651-001-02_20090924, F&BI 909250

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 909242-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	ug/L (ppb)	< 0.2	< 0.2	nm
Chloroethane	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethene	ug/L (ppb)	<1	<1	nm
Methylene chloride	ug/L (ppb)	<5	<5	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,1-Dichloroethane	ug/L (ppb)	<1	<1	nm
cis-1,2-Dichloroethene	ug/L (ppb)	<1	<1	nm
1,2-Dichloroethane (EDC)	ug/L (ppb)	<1	<1	nm
1,1,1-Trichloroethane	ug/L (ppb)	<1	<1	nm
Trichloroethene	ug/L (ppb)	<1	<1	nm
Tetrachloroethene	ug/L (ppb)	<1	<1	nm

Laboratory Code: Laboratory Control Sample

Laboratory coue. Laboratory co	iner er e unipre		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	111	112	53-131	1
Chloroethane	ug/L (ppb)	50	128 vo	128 vo	52-127	0
1,1-Dichloroethene	ug/L (ppb)	50	119	119	68-131	0
Methylene chloride	ug/L (ppb)	50	90	90	56-136	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	101	71-128	1
1,1-Dichloroethane	ug/L (ppb)	50	100	100	74-118	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	100	100	74-126	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	104	106	77-118	2
1,1,1-Trichloroethane	ug/L (ppb)	50	113	114	77-123	1
Trichloroethene	ug/L (ppb)	50	101	100	74-119	1
Tetrachloroethene	ug/L (ppb)	50	111	112	86-121	1

## **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$  - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 30, 2009

John Funderburk, Project Manager Sound Environmental Strategies Corporation 2400 Airport Way S., Suite 200 Seattle, WA 98134-2020

Dear Mr. Funderburk:

Included are the results from the testing of material submitted on September 25, 2009 from the SOU_0651-001-02_20090925, F&BI 909265 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Tom Cammarata SOU0930R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on September 25, 2009 by Friedman & Bruya, Inc. from the Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909265 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	Sound Environmental Strategies
909265-01	P13-2009025
909265-02	P14-2009025
909265-03	P15-2009025
909265-04	P16-2009025
909265-05	P17-2009025

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P13-2009023 09/25/09 09/28/09 09/29/09 Water ug/L (ppb)	5	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909265 909265-01 092844.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 101 99 97	Lower Limit: 63 60 51	Upper Limit: 127 129 145
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 20		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P14-200902 09/25/09 09/28/09 09/29/09 Water ug/L (ppb)	5	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909265 909265-02 092845.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 107 99 95	Lower Limit: 63 60 51	Upper Limit: 127 129 145
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 14 <1 <1 <1 8.0 460 ve		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P14-200902 09/25/09 09/28/09 09/29/09 Water ug/L (ppb)	5	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909265 909265-02 1/10 092851.D GCMS4 VM
			Lower	Upper
Surrogates:	• •	% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	106	63	127
Toluene-d8		103	60	129
4-Bromofluorobenz	ene	95	51	145
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride		<2		
Chloroethane		<10		
1,1-Dichloroethene		<10		
Methylene chloride	<u>è</u>	<50		
trans-1,2-Dichloroe	ethene	<10		
1,1-Dichloroethane		<10		
cis-1,2-Dichloroeth	ene	12		
1,2-Dichloroethane	(EDC)	<10		
1,1,1-Trichloroetha	ne	<10		
Trichloroethene		<10		
Tetrachloroethene		300		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P15-200902 09/25/09 09/28/09 09/29/09 Water ug/L (ppb)	5	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909265 909265-03 092834.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 103 101 102	Lower Limit: 63 60 51	Upper Limit: 127 129 145
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene e (EDC) ine	< 0.2 < 1 < 1 < 5 < 1 < 3		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P16-200902 09/25/09 09/28/09 09/29/09 Water ug/L (ppb)	5	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909265 909265-04 092835.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 103 99 105	Lower Limit: 63 60 51	Upper Limit: 127 129 145
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	P17-2009023 09/25/09 09/28/09 09/29/09 Water ug/L (ppb)	5	Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909265 909265-05 092836.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 101 103 105	Lower Limit: 63 60 51	Upper Limit: 127 129 145
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 39		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 09/28/09 09/29/09 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	Sound Environmental Strategies SOU_0651-001-02_20090925, F&BI 909265 091377 mb 092833.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 102 101 99	Lower Limit: 63 60 51	Upper Limit: 127 129 145
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.2 <1 <1 <5 <1 <1 <1 <1 <1 <1 <1 <1 <1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 09/30/09 Date Received: 09/25/09 Project: SOU_0651-001-02_20090925, F&BI 909265

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 909265-02 1/10 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Vinyl chloride	ug/L (ppb)	<2	<2	nm
Chloroethane	ug/L (ppb)	<10	<10	nm
1,1-Dichloroethene	ug/L (ppb)	<10	<10	nm
Methylene chloride	ug/L (ppb)	<50	<50	nm
trans-1,2-Dichloroethene	ug/L (ppb)	<10	<10	nm
1,1-Dichloroethane	ug/L (ppb)	<10	<10	nm
cis-1,2-Dichloroethene	ug/L (ppb)	12	12	0
1,2-Dichloroethane (EDC)	ug/L (ppb)	<10	<10	nm
1,1,1-Trichloroethane	ug/L (ppb)	<10	<10	nm
Trichloroethene	ug/L (ppb)	<10	<10	nm
Tetrachloroethene	ug/L (ppb)	300	300	0

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	107	113	64-134	5
Chloroethane	ug/L (ppb)	50	121	127	58-146	5
1,1-Dichloroethene	ug/L (ppb)	50	130	138 vo	70-132	6
Methylene chloride	ug/L (ppb)	50	101	110	70-124	9
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	109	81-122	11
1,1-Dichloroethane	ug/L (ppb)	50	104	113	85-118	8
cis-1,2-Dichloroethene	ug/L (ppb)	50	107	113	82-122	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	109	111	82-127	2
1,1,1-Trichloroethane	ug/L (ppb)	50	125	128	85-130	2
Trichloroethene	ug/L (ppb)	50	110	112	84-119	2
Tetrachloroethene	ug/L (ppb)	50	114	116	83-119	2

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - The analyte indicated was found in the method blank. The result should be considered an estimate.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - The sample was extracted outside of holding time. Results should be considered estimates.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The pattern of peaks present is not indicative of diesel.

y - The pattern of peaks present is not indicative of motor oil.

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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 15, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on September 7, 2011 from the SOU_0651_20110907, F&BI 109070 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SOU0915R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on September 7, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651_20110907, F&BI 109070 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
109070-01	DW01-20110907

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	DW01-2011 09/07/11 09/09/11 09/09/11 Water ug/L (ppb)	0907	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651_20110907, F&BI 109070 109070-01 090919.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 105 100 106	Lower Limit: 57 63 60	Upper Limit: 121 127 133
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride trans-1,2-Dichlorod cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene	ene	<0.2 <1 <1 <1 <1 12		

## ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 09/09/11 09/09/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651_20110907, F&BI 109070 01-1537 mb 090907.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 102 100 108	Lower Limit: 57 63 60	Upper Limit: 121 127 133
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride trans-1,2-Dichlorod cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene		<0.2 <1 <1 <1 <1 <1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/11 Date Received: 09/07/11 Project: SOU_0651_20110907, F&BI 109070

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 109073-20 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	50	< 0.2	123	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	113	72-129
cis-1,2-Dichloroethene	ug/L (ppb)	50	1.4	110	71-127
Trichloroethene	ug/L (ppb)	50	<1	106	66-135
Tetrachloroethene	ug/L (ppb)	50	1.8	119	73-129

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	115	122	50-154	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	105	108	68-128	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	108	106	80-123	2
Trichloroethene	ug/L (ppb)	50	102	106	80-120	4
Tetrachloroethene	ug/L (ppb)	50	115	111	76-121	4

#### ENVIRONMENTAL CHEMISTS

#### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Ph. (206) 285-8282	Relinquished by.				
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Samples received at _15 °C

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 e-mail: fbi@isomedia.com

December 1, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on November 23, 2011 from the SOU_0651_20111123, F&BI 111308 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SOU1201R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on November 23, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651_20111123, F&BI 111308 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
111308-01	DW01-20111123

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

DW01-2011 11/23/11 11/29/11 11/29/11 Water ug/L (ppb)	1123	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651_20111123, F&BI 111308 111308-01 112917.D GCMS4 JS
-d4 ene	% Recovery: 99 100 101	Lower Limit: 57 63 60	Upper Limit: 121 127 133
ene	Concentration ug/L (ppb) <0.2 <1 <1		
	11/23/11 11/29/11 Water ug/L (ppb) -d4 ene	11/23/11 11/29/11 11/29/11 Water ug/L (ppb) -d4 99 100 ene 101 Concentration ug/L (ppb) <0.2 ene <1	$ \begin{array}{cccc} 11/23/11 & & Project: \\ 11/29/11 & & Lab ID: \\ 11/29/11 & & Data File: \\ Water & & Instrument: \\ ug/L (ppb) & & Operator: \\ \\ & & & & \\ & & & \\ & & & \\ & & & \\ -d4 & 99 & & 57 \\ & & & 100 & & 63 \\ ene & & 101 & & 60 \\ \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ ene & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ ene & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ ene & & & & \\ & & & & \\ & & & & \\ & & & & $

## ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 11/29/11 11/29/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651_20111123, F&BI 111308 01-2039 mb 112907.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	98	57	121
Toluene-d8		99	63	127
4-Bromofluorobenz	zene	102	60	133
		Concentration		
Compounds:		ug/L (ppb)		
Vinyl chloride		<0.2		
cis-1,2-Dichloroeth	ene	<1		
Trichloroethene		<1		
Tetrachloroethene		<1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 12/01/11 Date Received: 11/23/11 Project: SOU_0651_20111123, F&BI 111308

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 111301-04 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	50	< 0.2	107	36-166
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	71-127
Trichloroethene	ug/L (ppb)	50	<1	91	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	100	73-129

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	115	112	50-154	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	105	105	80-123	0
Trichloroethene	ug/L (ppb)	50	90	92	80-120	2
Tetrachloroethene	ug/L (ppb)	50	103	104	76-121	1

#### ENVIRONMENTAL CHEMISTS

#### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

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d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

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fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

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js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

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L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

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vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies Hearthstone PROJECT Client Project ##0651 Seattle, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analytical Results

Analysis of Chlorinated Volatile Organic Compounds in Water by Method 8260

8260B Chlorinated, µg/L	M	CH BLK #1 M	TH BLK #2	LCS	WPH20110729
Matrix	Reporting	Water	Water	Water	Water
Date analyzed	Limits	07/29/11	07/29/11	07/29/11	07/29/11
Vinyl chloride	1.0	nđ	nd	131%	nd
trans-1,2-Dichloroethene	1.0	nd	nd	125%	nd
cis-1,2-Dichloroethene	1.0	nd	nđ	129%	2.1
Trichloroethene (TCE)	1.0	nd	nd	119%	1.6
Tetrachloroethene (PCE)	1.0	nd	nd	120%	77
Surrogate recoveries					
Dibromofluoromethane		100%	97%	93%	98%
Toluene-d8		101%	92%	93%	100%
4-Bromofluorobenzene		95%	98%	95%	91%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies HEARTHSTONE PROJECT Client Project # 0651 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analytical Results	_			0	•
8260B Chlorinated, µg/L	M	TH BLK #1	LCS	LCSD	MW24-20110801
Matrix	Reporting	Water	Water	Water	Water
Date analyzed	Limits	08/03/11	08/03/11	08/03/11	08/03/11
Vinyl chloride	1.0	nđ	67%	65%	nd
trans-1,2-Dichloroethene	1.0	nd	91%	97%	nd
cis-1,2-Dichloroethene	1.0	nd	90%	103%	nd
Trichloroethene (TCE)	1.0	nd	91%	99%	nd
Tetrachloroethene (PCE)	1.0	nd	90%	96%	nd
Surrogate recoveries					
Dibromofluoromethane		100%	100%	95%	99%
Toluene-d8		108%	98%	96%	107%
4-Bromofluorobenzene		106%	92%	94%	105%

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

#### Analysis of Chlorinated Volatile Organic Compounds in Water by Method 8260





# CHAIN-OF-CUSTODY RECORD

CLIENT Sound Barth Strategi		DATE <u>97/14/11</u> PAGE	10F
ADDRESS 2011 Pairyjew Ave I		PROJECT NAME: Hearthstone	
	FAX: 206-306-1907	LOCATION:	
	PROJECT MANAGER	COLLECTOR:	COLLECTION 9/14/1
	Let S S S S S S S S S S S S S S S S S S S	S S S S S S S S S S S S S S S S S S S	Man Bartan Man Bartan Man Bartan Man Bartan Man Bartan
Sample Number Depth Time	Sample Type Container Type At A A A A A A A A A A A A A A A A A A	NOTE	
2-56-42-121-544 1026 3.6643+18-244 1026			3
<u>3. GCH3 + 10 = 5000   1051</u> <u>4. GCH4 - 10 - 5000   1041</u> <u>5. GCH5 - 18 - 5000   1052  </u>			
6. GC41/-5-SWM 5 112 7. GC42 5 SWM 1 1126			
8 CC 43 C SWN 1044 9 C-C44 S SWN 1151			
10 GCUS-5-5741 V 1158			
12 13			
14			
16. 17			
18. RELINQUISHED BY (Signature) DATE	TIME RECEIVED BY (Signature) DATE/TIME	SAMPLE RECEIPT	
1 1	230 Julo analy 9/4/11/45 TOT	AL NUMBER OF CONTAINERS	
		LS INTACT? Y/N/NA	
	© \$2.00 eech D. Return D. Pickup NOT		me: 24 HR 48 HR 5 DAY,

#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies, Inc HEARTHSTONE PROJECT Client Project #0651-001-02 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Gasoline Range Organics, BTEX in Water by Method NWTPH-Gx/8260

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline Range Organics	Surrogate
Number	Analyzed	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Recovery (%)
Method Blank	8/5/2011	nd	nd	nd	nd	nd	107
LCS	8/5/2011	89%	98%	95%	103%	104%	95
LCSD	8/5/2011	82%	85%	93%	92%		95
Trip Blank	8/5/2011	nd	nd	nd	nd	nd	107
Reporting Limits		1.0	1.0	1.0	3.0	100	

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromoflurorbenzene) & LCS: 65% TO 135%



## CHAIN-OF-CUSTODY RECORD

CLIENT: Sound Earth.Strategies		DATE: 9/14/11	PAGE I OF
ADDRESS 2811 Fairview Ave E. See	ATTLE WA	PROJECT NAME: Hearth	
PHONE: 206-306+1900	FXX: 206-006-1907		
	PROJECT MANAGER		COLLECTION 2/14/11
	manufacture and the second	1/8/2/2///////	
Sample		\$*/\$\$ [*] /\$*/./\$*/\$*/\$*/\$*/\$*/\$*/\$	
Sample Number Depth Time : Type	Container Type At A A A A A A A A A A A A A A A A A A		NOTES
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3.6CH3+10 - WW 1055			
4. GUY41-10 - SAN 1041 5. GUYS-10-SAN 2 1052			
6. GC41-5-5 1114			
7. GCH2 SUN 1976			
8. CC 43. C - SUN 1044			
10. Cac 48-5-544 1158			
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18. RELINQUISHED BY (Signature) DATE/TIME	RECEIVED BY (Signature) DATE/TIME		
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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies HEARTHSTONE PROJECT Client Project #651 Seattle, Washington

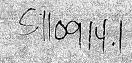
ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analytical Results			•		•	
8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	LCSdup	TRIP BLANK
Matrix		Soil	Soil	Soil	Soil	Water
Date extracted	Reporting	09/15/11	09/15/11	09/15/11	09/15/11	09/14/11
Date analyzed	Limits	09/15/11	09/15/11	09/15/11	09/15/11	09/15/11
Vinyl chloride	0.025	nd	nd	83%	75%	nd
cis-1,2-Dichloroethene	0.025	nđ	nd	88%	88%	nd
Trichloroethene (TCE)	0.025	nd	nd	76%	76%	nd
Tetrachloroethene (PCE)	0.025	nd	nd	75%	75%	nd
Surrogate recoveries:						
Dibromofluoromethane		97%	94%	106%	118%	90%
Toluene-d8		101%	97%	103%	107%	95%
4-Bromofluorobenzene		104%	99%	95%	112%	90%

Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

ESN NORTHWEST, INC Environmental Services Network



# **CHAIN-OF-CUSTODY RECORD**

CLIENT: Sound Ea										DAT	E:_9/	/14/1	1		<u>.</u>	PAGE_	<u> </u>	OF	1	
ADDRESS: 2811 Fa	airvie	ew Ave	E, Sea	attle WA		1000				PRC	JECI	FNAN	ΛE:	Hear	thst	tone				
PHONE: _206-306-		12.877			<b>(</b> : <u>206</u> -	306-1	907			A ROAD HILL HA	and the second			6	210000000000000000000000000000000000000	Ave NE	1			
CLIENT PROJECT	#: <u>065</u>	1		PROJEC	CT MAN	IAGEF	<b>₹:</b> ^{Tom (}	Cammara	:a 	COL	LECT		LN	15			200	DATE OF	DN <u>9/1</u>	4/1
Sample Number	Depth	Time	Sample Type	Container Troc	ANALY CO	3/ /0 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	OU / E /	Silve at at a silve at	2 41 0 / 5 2 4 1 / 5 2 4 1 / 5	2000 00 00 00 00 00 00 00 00 00 00 00 00	AND	AND CO	PUN SUIN C SUIN SRO	SUIL SUIL			OTES		Total Number of Containers	Laboratory Note Number
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2. GC 42-10-SWW	status investments	1026													l í l	ne series Per series				
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5. GCHS-10-SWW		1252																		
6. GC41-5-SWW	5	1104		2014 200						20 A										
7. GC42 -5 . SWW	í.	1126																		
8. GC43-5-SWIN		1144						Parts Internal		and the second										
9. G-C44-5-5WW		[15]											Server 1							
10.GC45-5-5W	V_	1158	<u>Y</u>	<u>v</u>									輸用が	<u> </u> ¥	Y				$- \Psi $	
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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies HEARTHSTONE PROJECT Client Project #651 Seattle, Washington ESN Northwest

1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analytical Results 8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	I COl	TOID DLANIZ
·				LCS		TRIP BLANK
Matrix		Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	09/16/11	09/16/11	09/16/11	09/16/11	09/15/11
Date analyzed	Limits	09/16/11	09/16/11	09/16/11	09/16/11	09/15/11
Vinyl chloride	0.025	nd	nd	108%	86%	nd
cis-1,2-Dichloroethene	0.025	nd	nd	117%	99%	nd
Trichloroethene (TCE)	0.025	nd	nd	109%	100%	nd
Tetrachloroethene (PCE)	0.025	nd	nd	118%	96%	nd
Surrogate recoveries:						
Dibromofluoromethane		120%	117%	116%	121%	99%
Toluene-d8		92%	97%	101%	100%	95%
4-Bromofluorobenzene		106%	101%	110%	96%	107%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

March 30, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on March 18, 2011 from the SOU_0651-001-02_20110318, F&BI 103245 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Ryan Thompson, Ryan Bixby SOU0330R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on March 18, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-001-02_20110318, F&BI 103245 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
103245-01	MW24-20110318

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	MW24-201 03/18/11 03/25/11 03/26/11 Water ug/L (ppb)	10318	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110318, F&BI 103245 103245-01 032526.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 97 99 105	Lower Limit: 57 63 60	Upper Limit: 121 127 133
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	< 0.2 < 1 < 1 < 5 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 1 < 2 < 1 < 1 < 2 < 2		

## ENVIRONMENTAL CHEMISTS

# Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 03/25/11 03/25/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110318, F&BI 103245 01-416 mb 032506.D GCMS4 JS
Surrogates:		% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane	-d4	97	57	121
Toluene-d8		97	63	127
4-Bromofluorobenz	zene	106	60	133
		Concentration		
Compounds:		ug/L (ppb)		
Vinyl chloride		<0.2		
Chloroethane		<1		
1,1-Dichloroethene		<1		
Methylene chloride		<5		
trans-1,2-Dichloroe		<1		
1,1-Dichloroethane		<1		
cis-1,2-Dichloroeth		<1		
1,2-Dichloroethane		<1		
1,1,1-Trichloroetha	ine	<1		
Trichloroethene		<1		
Tetrachloroethene		<1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 03/30/11 Date Received: 03/18/11 Project: SOU_0651-001-02_20110318, F&BI 103245

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 103291-01 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	50	< 0.2	113	36-166
Chloroethane	ug/L (ppb)	50	<1	114	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	111	60-136
Methylene chloride	ug/L (ppb)	50	<5	115	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	105	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	104	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	105	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	108	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	102	60-146
Trichloroethene	ug/L (ppb)	50	<1	102	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	100	73-129

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	107	99	50-154	8
Chloroethane	ug/L (ppb)	50	90	92	58-146	2
1,1-Dichloroethene	ug/L (ppb)	50	104	106	67-136	2
Methylene chloride	ug/L (ppb)	50	100	104	39-148	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	107	106	68-128	1
1,1-Dichloroethane	ug/L (ppb)	50	104	104	79-121	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	106	105	80-123	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	100	101	73-132	1
1,1,1-Trichloroethane	ug/L (ppb)	50	98	105	83-130	7
Trichloroethene	ug/L (ppb)	50	100	100	80-120	0
Tetrachloroethene	ug/L (ppb)	50	101	102	76-121	1

#### ENVIRONMENTAL CHEMISTS

#### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Sound Earth Strategies HEARTHSTONE PROJECT Client Project #0651 Seattle, Washington

Analytical Results

#### ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

8260B Chlorinated, mg/kg		MB	MB #2	LCS	GC02-15-B	GC03-15-B	GC04.15 P	CC05 15 P	GC06-10.5-B	0001 15 5	0.04		
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil					GC09-15-B
Date extracted	Reporting	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11			Soil	Soil	Soil	Soil	Soil
Date analyzed	Limits	08/01/11	08/01/11		08/01/11	08/01/11	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11
	and the second second		00/01/11	00/01/11	00/01/11	06/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11
Vinyl chloride cis-1,2-Dichloroethene Trichloroethene (TCE) trans-1,2-Dichloroethene Tetrachloroethene (PCE)	0.025 0.025 0.025 0.025 0.025	nd nd nd nd	nd nd nd nd	122% 114% 100% 114% 104%	nd nd nd 0.098	nd nd nd nd	nd nd nd nd	nd nd nd nd	nd nd nd <b>0.059</b>	nd nd nd 0.027	nd nd nd nd	nd nd nd nd nd	nd nd nd 0.057
Surrogate recoveries:													
Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene		87% 101% 112%	89% 96% 99%	92% 101% 97%	84% 98% 104%	74% 96% 100%	83% 98% 102%	92% 104% 128%	81% 92% 105%	90% 93% 110%	76% 92% 99%	80% 96% 106%	87% 100% 108%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

Sound Earth Strategies HEARTHSTONE PROJECT Client Project #0651 Seattle, Washington

Analytical Results

ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

8260B Chlorinated, mg/kg		GC10-15-B G	C11-13-SWS	GC12.10 5.B	CC14 15 P	COLE IE D	0014.15.0	A 64 5 4 5 5			
Matrix		Soil	Soil		GC14-15-D			GC17-15-B	GC21-15-B	GC22-15-B	GC23-15-B
Date extracted	Reporting	07/29/11		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
		Statement of the statem	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11	07/29/11
Date analyzed	Limits	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/01/11	08/02/11	08/02/11	08/02/11	08/02/11
Vinyl chloride cis-1,2-Dichloroethene Trichloroethene (TCE) trans-1,2-Dichloroethene Tetrachloroethene (PCE)	0.025 0.025 0.025 0.025 0.025	nd nd nd <b>0.025</b>	nd nd nd 0.029	nd nd nd 0.028	nd nd nd nd	nd nd nd 0.069	nd nd nd nd	nd nd nd nd	nd nd nd <b>0.24</b>	nd 0.025 0.027 nd 1.0	nd 0.027 nd nd 0.99
Surrogate recoveries:											
Dibromofluoromethane		82%	81%	82%	86%	80%	87%	87%	81%	82%	88%
Toluene-d8		97%	98%	96%	97%	91%	100%	103%	94%	98%	
4-Bromofluorobenzene		117%	109%	97%	100%	93%	119%	103%	108%	98%	100% 103%

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

Sound Earth Strategies HEARTHSTONE PROJECT Client Project #0651 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analytical Results 8260B Chlorinated, mg/kg GC28-15-B GC29-15-B GC06-13-SWS MS MSD Matrix Soil Soil Soil Soil Soil Date extracted Reporting 07/29/11 07/29/11 07/29/11 07/29/11 07/29/11 Date analyzed 08/02/11 Limits 08/02/11 08/01/11 08/01/11 08/01/11 Vinyl chloride 0.025 nd nd nd 131% 85% cis-1,2-Dichloroethene 0.025 nđ nd nd 89% 117% Trichloroethene (TCE) 0.025 nd nd nd 124% 106% trans-1,2-Dichloroethene 0.025 nd nd nd 123% 105% Tetrachloroethene (PCE) 0.025 0.19 1.1 nd 131% 97% Surrogate recoveries: Dibromofluoromethane 86% 85% 79% 84% 94% Toluene-d8 .93% 91% 90% 96% 104% 4-Bromofluorobenzene 110% 105% 105% 93% 107%

#### Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

#### Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

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Sound Earth Strategies HEARTHSTONE PROJECT Client Project Number 0651 Seattle, Washington

Analytical Results

ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

	MTH BLK #1	MTH BLK #2	LCS	GC37-14-R	GC43-11-SWW	CC20 11 CWC	COR 14 CUAN	001/ 10 01101	0.000		
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0.025 0.025 0.025 0.025 0.025 0.025	nd nd nd nd	nd nd nd nd	90% 119% 120% 118% 110%	nd nd nd 0.029	nd nd nd 0.94	nd nd nd 0.72	nd nd nd 0.19	nd nd nd 0.55	nd nd nd 0.11	nd nd nd <b>0.21</b>	nở nở nở 0.94
	87% 100% 112%	87% 89% 112%	105% 95% 84%	78% 96% 96%	78% 96% 103%	79% 92%	80% 96%	88% 98%	84% 97%	80% 100%	78% 96% 103%
	0.025 0.025 0.025	Soil         Soil           Reporting         08/02/11           Limits         08/03/11           0.025         nd	Soil         Soil           Reporting         08/02/11         08/02/11           Limits         08/03/11         08/03/11           0.025         nd         nd           0.025         nd         starting           0.025         starting         starting           0.0025         starting         starting           0.003         starting         starting	Soil         Soil         Soil         Soil           Reporting         08/02/11         08/02/11         08/02/11         08/02/11           Limits         08/03/11         08/03/11         08/03/11         08/03/11           0.025         nd         nd         10%           0.025         nd         nd         120%           0.025         nd         nd         120%           0.025         nd         nd         118%           0.025         nd         nd         110%           87%         87%         105%           100%         89%         95%	Soil         Soil <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""></th<></td></th<></td></th<></td></th<></td></th<></td></th<></td></th<>	Soil         Soil <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""></th<></td></th<></td></th<></td></th<></td></th<></td></th<>	Soil         Soil <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""></th<></td></th<></td></th<></td></th<></td></th<>	Soil         Soil <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""></th<></td></th<></td></th<></td></th<>	Soil         Soil <th< td=""><td>Soil         Soil         <th< td=""><td>Soil         Soil         <th< td=""></th<></td></th<></td></th<>	Soil         Soil <th< td=""><td>Soil         Soil         <th< td=""></th<></td></th<>	Soil         Soil <th< td=""></th<>

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Sound Earth Strategies HEARTHSTONE PROJECT Client Project Number 0651 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analysis of Chlorinated Volatile Organic Compounds in Soil	by Method 8260
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Analytical Results	ranarysis or cine	mateu volatile	Organic Compou	nus in Soll f	y Method 8260					
8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	GC30-12-SWSW	GC24-12-SWS	GC17-12-SWS	GC30-11.5-B	CC24 11 P	CC10 11 D
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	the second s		
Date extracted	Reporting	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11	Soil	Soil	Soil
Date analyzed	Limits	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11 08/02/11	08/02/11 08/02/11	08/02/11 08/02/11
Vinyl chloride cis-1,2-Dichloroethene Trichloroethene (TCE) trans-1,2-Dichloroethene Tetrachloroethene (PCE)	0.025 0.025 0.025 0.025 0.025 0.025	nd nd nd nd	nd nd nd nd	108% 69% 74% 74% 69%	nd nd nd 1.8	nd nd nd 0.47	nd nd nd nd	nd nd nd 0.72	nd nd nd 0.54	nd nd nd 0.034
Surrogate recoveries: Dibromofluoromethane		86%	85%	113%	000/					
Toluene-d8		99%	98%		88%	76%	81%	85%	92%	79%
4-Bromofluorobenzene		99%	101%	98% 117%	100% 103%	94% 105%	99% 101%	91% 113%	96% 99%	95% 112%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

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Sound Earth Strategies Hearthstone PROJECT Client Project ##0651 Seattle, WA

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Analytical Results			Analys	sis of Chlorin	nated Volatile Org	anic Compounds i	n Soil by Method	1 8260				
8260B Halogenated, mg/kg Matrix Date extracted Date analyzed	Reporting Limits	MTH BLK #1 Soil 08/02/11 08/03/11	MTH BLK #2 Soil 08/02/11 08/03/11		GC18-12-SWSW Soil 08/02/11	GC41-04-SWW Soit 08/02/11	GC44-04-SWW Soil 08/02/11		GC40-05-SWW Soil 08/02/11	GC19-04-SWSW Soil 08/02/11	Soil	MSD Soil
Vinyl chloride cis-1,2-Dichloroethene Trichloroethene (TCE) trans-1,2-Dichloroethene Tetrachloroethene (PCE)	0.025 0.025 0.025 0.025 0.025	nd nd nd nd	nd nd nd nd nd	90% 119% 120% 118% 110%	08/03/11 nd nd nd 0.038	08/03/11 nd nd nd	08/03/11 nd nd nd	08/03/11 nd nd nd nd		08/03/11 08/03/11 nd nd nd nd	08/02/11 08/03/11 79% 132% 132% 133%	08/02/11 08/03/11 72% 129% 125%
Surrogate recoveries: Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene	-	87% 100% 112%	87% 89% 112%	105% 95% 84%	82% 95% 109%	nd 76%. 90%	nd 82% 92%	89% 93%	nd 81% 87%	87% 96%	95% 93%	119% 133% 84%
Data Qualifiers and Analytical Co	mments				10978	110%	99%	98%	91%	108%	91%	101% 96%

nd - not detected at lated reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

Sound Earth Strategies Hearthstone PROJECT Client Project ##0651 Seattle, WA

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Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260 Analytical Results

8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	CC42 04 SWW	0012 04 01111	No. of Concession, Name		201				
Matrix Date extracted Date analyzed	Reporting Limits	Soil 08/04/11 08/04/11	Soil 08/04/11 08/04/11	Soil 08/04/11 08/04/11	08/02/11	GC43-04-SWW Soil 08/02/11 08/04/11	GC44-05-B Soil 08/02/11 08/04/11	GC38-05-B Soil 08/02/11 -08/04/11	GC45-03-SWW Soil 08/02/11 08/04/11	GC39-05-B Soil 08/02/11 08/04/11	GC31-09-SWS Soil 08/02/11 08/04/11	Soil 08/02/11	Soil 08/02/11
Vinyl chloride cis-1,2-Dichloroethene Trichloroethene (TCE) trans-1,2-Dichloroethene Tetrachloroethene (PCE) Surrogate recoveries:	0.025 0.025 0.025 0.025 0.025	ಗಿದೆ ಗದ ಗದ ಕದ	nd nd nd nd	82% 108% 111% 106% 105%	nd nd	nd nd nd nd	nd nd nd nd	nd nd nd nd	nd nd nd nd	nd nd nd 0.066	nd nd nd 0.18	08/04/11 nd nd nd 0.14	08/04/11 nd nd nd 0.14
Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene Data Qualifiers and Analytical Co		89% 94% 89%	91% 93% 97%	101% 101% 89%	88% 84% 95%	82% 85% 104%	81% 96% 103%	84% 92% 93%	82% 95% 101%	88% 91% 123%	85% 99% 98%	90% 103% 101%	81% 93% 106%

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

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Sound Earth Strategies Hearthstone PROJECT Client Project ##0651 Seattle, WA

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Analytical Results 8260B Halogenete

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Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

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91% 91% 106%	90% 97%	87% 101% 126%
		91% 97%

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

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Sound Earth Strategies Hearthstone PROJECT Client Project ##0651 Seattle, WA

ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	1 CEdan	CC20 16 D									
Matrix		Soil	Soil	Soil	Soil	6639-15-8	GC38-15-B	GC37-15-B	GC36-15-B.	GC35-15-B	GC33-15-BNE	GC29-17-BF	GC30-15-B	GC31-15-B	GC32-15-
Date extracted	Reporting	09/19/11	09/19/11	. 09/19/11	09/19/11	301	. 2011	Soil	Soil.	Soil	Soil	Soil	Soil	Soil	and the second se
Date analyzed	Limits	09/19/11	09/19/11	09/19/11	09/19/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	So 09/16/1
				UN LUTI	09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	09/19/1
Vinyl chloride cis-1,2-Dichlorocthene Trichloroethene (TCE) Tetrachloroethene (PCE) Surrogate recoveries:	0.025 0.025 0.025 0.025	nd nd nd	nd nd nd	82% 105% 90% 95%	103% 132% 121% 116%	nd nd 0.050	nd nd nd 0.10	nd nd nd 0,097	nd nd nd 0.035	nd nd 0.048	nd nd 0.43	nd nd 0.30	nd nd nd 1.2	nđ nd nd 0:24	0.02 J.
Dibromofluoromethane Foluene-d8 -Bromofluorobenzene Data Qualifiers and Analytical Co		97% 102% 96%	103% 99% 98%	110% 102% 101%	119% 99% 100%	95% 93% 99%	100% 90% 95%	96% 98% 103%	98% 99% 104%	98% 97% 96%	93% 94% 100%	94% .96% 96%	102% 103% 98%	86% 97% 99%	92 107 98

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit; 35%

Sound Earth Strategies Hearthstone PROJECT Client Project ##0651 Seattle, WA

ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501. (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	LCCL	000448.5	0.000					10/4777-0-			
Matrix		Soil	Soil	Soil	Soil	GC24-15-B	GC25-15-B	GC26-15-BNE	GC18-15-BSW	GC19-15-B	GC12-15-B	GC06-15-B	GC16-17-BF	GC11-17-BE	GC02/03-17-
Date extracted	Reporting	09/19/11	09/19/11	09/19/11	09/19/11	0011	0011	3011	Soil	Soil	Soil	Soil	Soil	Soil	So
Date analyzed	Limits	09/19/11	09/19/11	09/19/11	09/19/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/1
			CATALC.	09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	. 09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	09/19/11	09/10/1
Vinyl chloride cis-1,2-Dichloroethene Frichloroethene (TCE) Fetrachloroethene (PCE)	0.025 0.025 0.025 0.025	nd nd nd	nđ nđ nđ	80% 98% 92% 84%	75% 128% 121% 111%	nd nd 0.14	nd nd 0.33	nd nd nd	nd nd nd	nd nd nd	nd nd nd	nd nd nd	nd nd 0.048	nđ nd nd nd	0.05 0.1
urrogate recoveries:	i.														
Dibromofluoromethane Foluene-d8 I-Bromofluorobenzene	and a	102% 107% 118%	103% 99% 98%	101% 99% 111%	101% .97% 110%	103% 107% 124%	99% 109% 121%	98% 107% 122%	100% 106% 122%	96% 108% 116%	98% 105% 118%	99% 102% 120%	103% 106%	92% 106%	98 106

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Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

#### Environmental CHAIN-OF-CUSTODY RECORD Savagas INactoria CLIENT Sound Barth Strategies DATE: 9/14/11 ADDRESS 2011 Patrulew Ave. B. Seattlei HA PROJECT NAME: CHARGE STATE 2555 A 12 11 1 PRONE 206-8066 1900 2950 Woodlawn Ave. NE LOCATION COLLECTOR Sample Sample Number Depth Time Type Container Tup NOTES GE33 - 6 SWY-10 ANDO. Tozla GC HZE IG LISAL 1048+18 2 gala GCHH-16 LANN 10-11 6-045-10_store 1120 126 CA 43 CESVIN INALA CC445-5-5 OIGELLE-B-STAN V 115% SP TRAP 14 5 5 2 2 3 4 4 4 SAMPLE RECE LABORATORY NOTES TOTAL NUMBER OF CONTAINERSE With Mer REENOUISHED BY (Signature) OATERTIME RECEIVED BY (Signature) OATERTIME CHAIN OFICUSTODY SEALS YMMA SEALSINTACT? YAVNA SAMPLE/DISPOSAL INSTRUCTIONS RECEIVED COOD COND /COUD

NOTES

DESN DISPOSAL @ \$2.00 sech D Return D Picture

Turn Around Time: 224 HR 349 HR 5 DAY

Sound Earth Strategies HEARTHSTONE PROJECT Client Project #651 Seattle, Washington

Analytical Results

ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	LCSdup	GC35-10-SWW	GC41-5-SWW	0015 - 017991		
Matrix	i	Soil	Soil	Soil	Soil	and the second se		GC42-5-SWW	GC42-10-SWW	GC43-5-SWW
Date extracted	Reporting	09/15/11	09/15/11	09/15/11	09/15/11	Soil	Soil	Soil	Soil	Soil
Date analyzed	Limits	09/15/11	09/15/11	09/15/11	09/15/11	09/14/11	09/14/11	09/14/11	09/14/11	09/14/11
		US/ IO/ II	07/13/11	09/15/11	09/15/11	09/15/11	09/15/11	09/15/11	09/15/11	09/15/11
Vinyl chloride cis-1,2-Dichloroethene Trichloroethene (TCE) Tetrachloroethene (PCE)	0.025 0.025 0.025 0.025	nd nd nd	nd nd nd	83% 88% 76% 75%	75% 88% 76% 75%	nd nd nd 0.040	nđ nđ nd	nd nd nd nd	nd nd 0.031	nđ nđ nđ nđ
Surrogate recoveries:										
Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene		97% 101% 104%	94% 97% 99%	106% 103% 95%	118% 107% 112%	94% 98% 105%	89% 92% 103%	90% 100% 98%	87% 96% 99%	88% 91% 105%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

Sound Earth Strategies HEARTHSTONE PROJECT Client Project #651 Seattle, Washington

Analytical Results

ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

8260B Halogenated, mg/kg		GC44-5-SWW	GC45-5-SWW	GC43-10-SWW	GC44-10-SWW	GC45-10-SWW
Matrix		Soil	Soil	Soil	Soil	
Date extracted	Reporting	09/14/11	09/14/11	09/14/11		Soil
Date analyzed	Limits	09/15/11	09/15/11	09/14/11	09/14/11 09/15/11	09/14/11 09/15/11
Vinyl chloride cis-1,2-Dichloroethene Trichloroethene (TCE) Tetrachloroethene (PCE)	0.025 0.025 0.025 0.025	nd nd nd	nd nd nd nd	nd nđ nđ	nd nd nd	nd nd nd nd
Surrogate recoveries: Dibromofluoromethane		90%	81%	93%	101%	94%
Toluene-d8 4-Bromofluorobenzene		104% 97%	95% 108%	93% 104%	98% 101%	98% 105%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

ESN NORTHVIELE INC Environmental Services Network	S110914.2	CHAIN-0	F-CUSTODY RECORD				
CLIENT: Sound Earth Strategies		DATE: 9/14/11	PAGEOF				
ADDRESS: 2811 Pairview Ave E, Se	attle WA						
And the second							
PHONE: 206-306-1900	FAX: 206-306-1907		Lawn Ave NE				
CLIENT PROJECT #:0651	PROJECT MANAGER: Tom Cammar	COLLECTOR: LMS	OATE OF 9/14/1				
and a set of a set of the set	3/6///	TTTTTT	77797				
Sample		5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	a line of the second se				
Sample Number Depth Time Type	Container Type 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<u>/\$/\$/\$/\$/\$/\$/\$/\$/\$/\$</u>	NOTES				
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8. GC26-10-545 10 1458							
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10GC12-12-12-12 1518			The second se				
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RELINGUISHED BX (Signature) DATE/TIME	RECEIVED BY (Signature) DATE/TIME	SAMPLE RECEIPT					
1 AUP 9/4/115	30 delygnicupy 9/14/11/61	TOTAL NUMBER OF CONTAINERS	LABORATORY NOTES:				
RELINCIDISHED BY (Signature) DATE/TIME	RECEIVED BY (Signaure) DATE/TIME	CHAIN OF CUSTODY SEALS YMMA					
	UU VU	SEALS INTACT? Y/N/NA					
SAMPLE DISPOS	ALINSTRUCTIONS	RECEIVED GOOD COND/COLD					
DESNDISPOSAL @ \$2.0	0 each 🖸 Return 🖸 Pickup	NOTES	Turn Around Time: 24 HR 48 HR 5 DAY				

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Sound Earth Strategies HEARTHSTONE PROJECT Client Project #651 Seattle, Washington

Analytical Results

ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	LCSdup	GC46-5-SWS	CC4( 10 0000	0010 - 0110			
Matrix	1	Soil	Soil	Soil	Soil				GC40-10-SWS	GC33-5-SWS	GC33-10-SWS
Date extracted	Reporting	09/16/11	09/16/11	09/16/11		Soil	Soil	Soil	Soil	Soil	Soil
Date analyzed	Limits	09/16/11	09/16/11		09/16/11	09/15/11	09/15/11	09/15/11	09/15/11	09/15/11	09/15/11
	Linno	09/10/11	09/10/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11	09/16/11
Vinyl chloride cis-1,2-Dichloroethene Trichloroethene (TCE) Tetrachloroethene (PCE)	0.025 0.025 0.025 0.025	nđ nđ nđ	nd nd nd	108% 117% 109% 118%	86% 99% 100% 96%	nd nd nd	nd nd nd	nd nd nd <b>0.099</b>	nd nd 0.040	nd nd nd 0.122	nd nd nd <b>0.037</b>
Surrogate recoveries: Dibromofluoromethane Toluene-d8 4-Bromofluorobenzene		120% 92% 106%	117% 97% 101%	116% 101% 110%	121% 100% 96%	108% 93% 99%	91% 92% 112%	93% 103% 97%	90% 90% 100%	96% 97% 102%	96% 93% 106%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

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Sound Earth Strategies HEARTHSTONE PROJECT Client Project #651 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

8260B Halogenated, mg/kg		GC26-5-SWS	GC26-10-SWS	GC19-12-SWS	GC12-12-SWS	GC06-12-SWS	
Matrix		Soil	Soil	Soil	Soil	the state of the second s	
Date extracted	Reporting	09/15/11	09/15/11	09/15/11	the second s	Soil	
Date analyzed	Limits	09/16/11	09/16/11	09/16/11	09/15/11	09/15/11	
			00110111	07/10/11	09/10/11	09/16/11	
Vinyl chloride	0.025	nd	nd	nd			
cis-1,2-Dichloroethene	0.025	nd	nd	nd	nd	nd	
Trichloroethene (TCE)	0.025	nd	nd		nd	nd	
Tetrachloroethene (PCE)	0.025	0.026	0.337	nd	nd	nd	
(202)	0.045	0.020	0.007	nd	nd	0.032	
Surrogate recoveries:							
Dibromofluoromethane		92%	93%	97%	94%	103%	
Toluene-d8		94%	100%	100%	88%	105%	
4-Bromofluorobenzene		99%	98%	92%	93%	104%	

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 e-mail: fbi@isomedia.com

June 25, 2012

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on June 22, 2012 from the SOU_0651-001-02_20120622, F&BI 206321 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

ale

Michael Erdahl Project Manager

Enclosures SOU0625R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on June 22, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
206321-01	GC41-12-SWW
206321-02	GC42-12-SWW
206321-03	GC41-15-B
206321-04	GC42-15-B
206321-05	GC53-12-SWS
206321-06	GC53-12-SWW
206321-07	GC53-15-B

Vinyl chloride failed below the acceptance criteria in the matrix spike sample. The laboratory control samples met the acceptance criteria, therefore the data is likely due to sample matrix effect.

All other quality control requirements were acceptable.

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC41-12-SWV 06/22/12 06/22/12 06/23/12 Soil mg/kg (ppm)	N	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 206321-01 062309.D GCMS9 VM
Surrogates: 1,2-Dichloroethane-o Toluene-d8 4-Bromofluorobenze		% Recovery: 98 99 99	Lower Limit: 50 50 50	Upper Limit: 150 150 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichloroet cis-1,2-Dichloroethe Trichloroethene Tetrachloroethene		<0.05 <0.05 <0.05 <0.03 <0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC42-12-SW 06/22/12 06/22/12 06/23/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 206321-02 062310.D GCMS9 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	98	50	150
Toluene-d8		100	50	150
4-Bromofluorobenze	ne	98	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC41-15-B 06/22/12 06/22/12 06/23/12 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 206321-03 062311.D GCMS9 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	98	50	150
Toluene-d8		100	50	150
4-Bromofluorobenze	ne	99	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC42-15-B 06/22/12 06/22/12 06/23/12 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 206321-04 062312.D GCMS9 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	98	50	150
Toluene-d8		100	50	150
4-Bromofluorobenze	ne	99	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC53-12-SW 06/22/12 06/22/12 06/23/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 206321-05 062313.D GCMS9 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4		99	50	150
Toluene-d8		99	50	150
4-Bromofluorobenze	ne	98	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC53-12-SW 06/22/12 06/22/12 06/23/12 Soil mg/kg (ppm)	W	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 206321-06 062314.D GCMS9 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4		97	50	150
Toluene-d8		99	50	150
4-Bromofluorobenze	ne	98	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC53-15-B 06/22/12 06/22/12 06/23/12 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 206321-07 062315.D GCMS9 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4		99	50	150
Toluene-d8		100	50	150
4-Bromofluorobenze	ne	98	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroethene		< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicabl 06/23/12 06/23/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120622, F&BI 206321 02-1066 mb 062307.D GCMS9 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	97	50	150
Toluene-d8		99	50	150
4-Bromofluorobenze	ne	98	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		<0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/25/12 Date Received: 06/22/12 Project: SOU_0651-001-02_20120622, F&BI 206321

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 206321-02 (Matrix Spike)

<b>3</b>	1			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	47 vo	50-150
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	68	50-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	66	50-150
Trichloroethene	mg/kg (ppm)	2.5	< 0.03	63	50-150
Tetrachloroethene	mg/kg (ppm)	2.5	< 0.025	68	50-150

Laboratory Code: Laboratory Control Sample

	ľ		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	90	92	36-100	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	102	104	47-121	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	94	94	66-116	0
Trichloroethene	mg/kg (ppm)	2.5	90	92	64-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	94	94	59-120	0

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

 ${\bf b}$  - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

 $\mbox{ca}$  - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$  - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

 $\ensuremath{\text{pr}}$  – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

City, State, ZIP	206321				S/	MPLE				TODY	ζ	ME	0	6 /de	2/12	2	, VSZ
Company       SoundEarth Strategies, Inc.         Address       2811 Fairview Avenue E, Suite 2000         City, State, ZIP       Seattle, WA 98102         Phone #       206-306-1900         Fax #       206-306-1907         Bample ID       Sample         Sample ID       Sample         Location       Sample         Lab       Date         Sample ID       Sample         Lab       Date         Sample ID       Sample         Lab       Date         Sample ID       Sample         Location       Sample         Location       Sample         Lab       Sample         Sample       Lab         Sample       Sample         Sample       Sample         Sample       Sample         Sample       Sample         Sample       Sample         Sample       Sampl	Send Report toT	om Cammara	ata		- -	SAMP	LERS (s	ignatu	re)	G	és l	Sing	2		т Т	age # URNAI	of ROUND TIME
Address2811 Fairview Avenue E, Suite 2000Hearthstone Property / 0651-001-02Rush charges authorized by: $City, State, ZIP$	Company So ¹	undEarth Str	ategies.	Inc.		PROJ	ECT NA	ME/NO	).			I	PO#		Stan	dard (2	Weeks)
Sample IDSample LocationSample LocationLime SampledMatrix# of Jars $J_{ars}$ $V_{ars}$ $V_$		184 N.	-		e 2000									т Ŝ	Rush c	harges	authorized by:
Sample IDSample PetrovalPate NotesLime SampleWatrix $h \circ 0$ 		Sity, State, ZIP <u>Seattle, WA 98102</u> "hone # <u>206-306-1900</u> Fax # <u>206-306-1907</u> REMARKS HVOCs: Vinyl chloride frans-1,2 dichloroethene, Cis-1,2-dichloroethene Trichloroethene, Tetrachbroethene					hJ roethen <u>hene</u>	e,	Disp Retu	ose afte rn samj	r 30 days ples						
6C.41-12-SWW GC41 12 013 6-22-12 1320 Sol 4 ×								[	4	·		A	NALYSE	S REQU	JESTED		
	Sample ID						Matrix		HVOCs by 8260C	Methane, Ethane, Ethene by RSK175	Sulfate by 375.4/SM4500S04	Nitrate by 353.2/SM4500N03	Ferrous Iron and Manganese by 200.8	Total Organic Carbon by 415.1	Total Alkalinity by 310.1/SM2320B	pH by 9040C	Notes
	6C 41-12-SWW	GC 41	12	013-	6-22-12	1320	55.1	4	$\ge$		•						*
GC42-12-SWW GC42 12 02 1330 / 4 ×	GC42-12-SWW	GC42	12	02		1330		4	X								
GC41-15-B GC41 15 03 1335 4 X	GC41-15-B	6041	15	03		1335		4	$\mathbf{X}$								
GC42-15-B GC42 15 04 1345 4 ×	GC42-15-B	GC42	15	04		1345		4	X						i		
GC53-12-SWS GC53 12 05 1400 4	GC53-12-SWS	6053	12	05		1400		4	$\mathbf{X}$								
GC53-12541 GC53 12 06 1405 4 X	GC53-125WW	GC 53	12	06		)405		4	X							-	
	GC53-15-B	GC53		1	¥	1415	V	4	$\mathbf{X}$								

Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by:	Chris Cass	SoundBarty	6-22-12	1522
Seattle, WA 98119-2029	Received by:	DA IND	FKBE	U U	11
Ph. (206) 285-8282	Relinquished by:		FOOL		
Fax (206) 283-5044	Received by:	· · · · · · · · · · · · · · · · · · ·	Samples rece	ived at	<u>•c</u>
FORMS\COC\COC.DOC					

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 e-mail: fbi@isomedia.com

July 10, 2012

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on July 5, 2012 from the SOU_0651-001-02_20120705, F&BI 207045 project. There are 13 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

ale

Michael Erdahl Project Manager

Enclosures c: Rob Honsberger SOU0710R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on July 5, 2012 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
207045-01	GC64-5-SWS
207045-02	GC63-5-SWS
207045-03	GC62-5-SWS
207045-04	GC62-10-SWS
207045-05	GC63-10-SWS
207045-06	GC64-10-SWS
207045-07	GC58-15-B
207045-08	GC57-17-B
207045-09	GC56-17-B

Vinyl chloride failed below the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data were likely due to sample matrix effect.

All other quality control requirements were acceptable.

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC64-5-SWS 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-01 070525.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4		95	50	150
Toluene-d8		97	50	150
4-Bromofluorobenze	ne	102	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC63-5-SWS 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-02 070526.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	95	50	150
Toluene-d8		98	50	150
4-Bromofluorobenze	ne	103	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC62-5-SWS 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-03 070527.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	93	50	150
Toluene-d8		96	50	150
4-Bromofluorobenze	ne	98	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC62-10-SW 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-04 070528.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-o	14	95	50	150
Toluene-d8		96	50	150
4-Bromofluorobenze	ne	101	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC63-10-SW 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-05 070529.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	95 [°]	50	150
Toluene-d8		97	50	150
4-Bromofluorobenze	ne	101	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC64-10-SW 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-06 070530.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	96	50	150
Toluene-d8		96	50	150
4-Bromofluorobenze	ne	102	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC58-15-B 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-07 070531.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	95	50	150
Toluene-d8		96	50	150
4-Bromofluorobenze	ne	101	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC57-17-B 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-08 070532.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	96	50	150
Toluene-d8		97	50	150
4-Bromofluorobenze	ne	101	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	GC56-17-B 07/05/12 07/05/12 07/05/12 Soil mg/kg (ppm	)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 207045-09 070533.D GCMS9 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-	d4	97	50	150
Toluene-d8		98	50	150
4-Bromofluorobenze	ne	101	50	150
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroet	hene	< 0.05		
cis-1,2-Dichloroethe	ne	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicabl 07/05/12 07/05/12 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20120705, F&BI 207045 02-1147 mb 070508.D GCMS9 JS
Surrogates: 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze		% Recovery: 93 94 98	Lower Limit: 50 50 50	Upper Limit: 150 150 150
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichloroet cis-1,2-Dichloroethe Trichloroethene Tetrachloroethene		<0.05 <0.05 <0.05 <0.03 <0.025		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 07/10/12 Date Received: 07/05/12 Project: SOU_0651-001-02_20120705, F&BI 207045

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 207045-01 (Matrix Spike)

ý í	I ,			Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	39 vo	50-150
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	61	50-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	60	50-150
Trichloroethene	mg/kg (ppm)	2.5	< 0.03	58	50-150
Tetrachloroethene	mg/kg (ppm)	2.5	< 0.025	64	50-150

Laboratory Code: Laboratory Control Sample

	ľ		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	84	82	36-100	2
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	103	101	47-121	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	91	66-116	1
Trichloroethene	mg/kg (ppm)	2.5	86	86	64-114	0
Tetrachloroethene	mg/kg (ppm)	2.5	95	93	59-120	2

#### ENVIRONMENTAL CHEMISTS

## **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

 ${\bf b}$  - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

 $\mbox{ca}$  - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$  - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

 $\ensuremath{\text{pr}}$  – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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City, State, ZIP Phone # <u>206-306-1</u>	Seattle, W	A 98102		3-1907	REMA	REMARKS Only anoyze for: Tetrachloroethene, Trichlorothene, cis-1,2-Oich loroethene, Trans-1,2 dichloroethene, and Vinyl Chloride				SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions						
<i></i>			l · · ·					<b></b>	· · · · · · ·			NALYSE		JESTED		
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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies HEARTHSTONE PROJECT Client Project # 0651 Seattle, Washington

ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

Analytical Results					o. B							
8260B Chlorinated mg/kg		MTH BLK #1	MTH BLK #2	LCS	SP12-NW	SP-12-NE	SP-12-SW	SP-11R-S	SP-12-SE	SP-11R-W	SP-11R-N	SP-12-N
Matrix		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	08/05/11	08/05/11	08/05/11	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11	08/02/11
Date analyzed	Limits	08/05/11	08/05/11	08/05/11	08/05/11	08/05/11	08/05/11	08/05/11	08/05/11	08/05/11	08/05/11	08/05/11
Vinyl chloride	0.025	nđ	nd	104%	nd							
cis-1,2-Dichloroethene	0.025	nd	nd	76%	nd							
Trichloroethene (TCE)	0.025	nd	nd	81%	nd	nd	nd	nd	nd	nd	nđ	nd
trans-1,2-Dichloroethene	0.025	nd	nd	79%	nd							
Tetrachloroethene (PCE)	0.025	nd	nd	80%	0.043	0.51	0.51	0.23	0.071	0.15	0.072	0.092
Surrogate recoveries:												
Dibromofluoromethane		88%	86%	108%	85%	86%	77%	87%	89%	88%	78%	91%
Toluene-d8		94%	91%	96%	98%	98%	99%	98%	95%	100%	95%	96%
4-Bromofluorobenzene		97%	90%	86%	107%	100%	102%	104%	106%	93%	103%	124%

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies, Inc HEARTHSTONE PROJECT Client Project #0651-001-02 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Diesel Range Organics & Lube Oil Range Organics in Soil by Method NWTPH-Dx/Dx Extended

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (mg/kg)	Lube Oil Range Organics (mg/kg)
Method Blank	8/2/2011	8/2/2011	110%	nd	nd
LCS	8/2/2011	8/2/2011	120%	120%	ns
SP01	8/2/2011	8/2/2011	117%	nd	nd
SP01 Duplicate	8/2/2011	8/2/2011	117%	nd	nd
Reporting Limits				50	100

"nd" Indicates not detected at the listed detection limits. "int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%

#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies, Inc HEARTHSTONE PROJECT Client Project #0651-001-02 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Gasoline Range Organics & BTEX in Soil by Method NWTPH-Gx/8260

Sample Number	Date Prepared	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline Range Organics (mg/kg)	Surrogate Recovery (%)
Method Blank	8/2/2011	8/4/2011	nd	nd	nd	nđ	nd	109
LCS	8/2/2011	8/4/2011	93%	98%	101%	99%	138%	99
LĊSD	8/2/2011	8/4/2011	81%	88%	87%	90%		101
SP01	8/2/2011	8/4/2011	nd	nd	nd	nd	nd	106
SP01-Dup	8/2/2011	8/4/2011	nd	nd	nd	nd	nd	109
Reporting Limits			0.02	0.05	0.05	0.15	10	

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromoflurorbenzene) & LCS: 65% TO 135%

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 2, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on May 27, 2011 from the SOU_0651-001-02_20110527, F&BI 105367 project. There are 11 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Dan Ramras, Brian Dixon SOU0602R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on May 27, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies 0651-001-02 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
105367-01	SP7-W
105367-02	SP7-E
105367-03	SP8-W
105367-04	SP8-E
105367-05	SP8A-W
105367-06	SP8A-E

The 8260C cis-1,2-dichloroethene laboratory control sample failed the acceptance criteria for several samples. The data were flagged accordingly.

All other quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP7-W 05/27/11 05/27/11 05/27/11 Soil mg/kg (pp)	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110527, F&BI 105367 105367-01 052722.D GCMS4 JS
			Lower	Upper
Surrogates:	_	% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	104	62	142
Toluene-d8		100	55	145
4-Bromofluorobenz	ene	97	65	139
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroe	ethene	< 0.05		
cis-1,2-Dichloroeth	ene	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP7-E 05/27/11 05/27/11 05/27/11 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110527, F&BI 105367 105367-02 052723.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 104 100 97	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichlorod cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene		<0.05 <0.05 <0.05 <0.03 <0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP8-W 05/27/11 05/31/11 05/31/11 Soil mg/kg (pp)	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110527, F&BI 105367 105367-03 053107.D GCMS5 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	99	42	158
Toluene-d8		101	42	159
4-Bromofluorobenz	ene	102	36	160
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroe	ethene	< 0.05		
cis-1,2-Dichloroeth	ene	<0.05 jl		
Trichloroethene		<0.03		
Tetrachloroethene		0.073		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP8-E 05/27/11 05/31/11 05/31/11 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110527, F&BI 105367 105367-04 053110.D GCMS5 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 100 104 105	Lower Limit: 42 42 36	Upper Limit: 158 159 160
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichlorod cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene		<0.05 <0.05 <0.05 jl <0.03 0.095		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP8A-W 05/27/11 05/31/11 05/31/11 Soil mg/kg (pp)	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110527, F&BI 105367 105367-05 053108.D GCMS5 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	105	42	158
Toluene-d8		110	42	159
4-Bromofluorobenz	ene	111	36	160
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		<0.05		
trans-1,2-Dichloroe	ethene	< 0.05		
cis-1,2-Dichloroeth		<0.05 jl		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP8A-E 05/27/11 05/31/11 05/31/11 Soil mg/kg (ppr	n)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110527, F&BI 105367 105367-06 053109.D GCMS5 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 100 105 106	Lower Limit: 42 42 36	Upper Limit: 158 159 160
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichloroe cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene		<0.05 <0.05 <0.05 jl <0.03 <0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 05/31/11 05/31/11 Soil mg/kg (ppn	able	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110527, F&BI 105367 01-939 mb 053106.D GCMS5 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	97	42	158
Toluene-d8		107	42	159
4-Bromofluorobenz	zene	106	36	160
		Concentration		
Compounds:		mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroe	ethene	< 0.05		
cis-1,2-Dichloroeth	ene	<0.05 jl		
Trichloroethene		<0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/11 Date Received: 05/27/11 Project: SOU_0651-001-02_20110527, F&BI 105367

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 105344-01 (Matrix Spike)

5				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	62	10-138
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	93	14-137
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	89	25-135
Trichloroethene	mg/kg (ppm)	2.5	< 0.03	86	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	0.04	93	20-133

Laboratory Code: Laboratory Control Sample

3	J 1		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	88	81	22-139	8
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	101	103	67-127	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	90	89	72-113	1
Trichloroethene	mg/kg (ppm)	2.5	86	85	68-114	1
Tetrachloroethene	mg/kg (ppm)	2.5	88	87	72-114	1

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/11 Date Received: 05/27/11 Project: SOU_0651-001-02_20110527, F&BI 105367

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Laboratory Couc. Laboratory C	Solici of Scilliple		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	36	38	29-135	5
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	61	70	60-125	14
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	71 vo	80	72-118	12
Trichloroethene	mg/kg (ppm)	2.5	71	81	71-122	13
Tetrachloroethene	mg/kg (ppm)	2.5	76	84	69-125	10

#### ENVIRONMENTAL CHEMISTS

## **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

 ${\bf b}$  - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Send Report to	om Camma	rata, Bri	an Diz	on	SA	MPLER	S (sign	ature)	会と	A	7			Page TUR	# of NAROUND TIME
	SoundEarth 811 Fairvie					OJECT		/NO. /oodlawn/	0651-001·	.02	) PO #			tandar USH_	d (2 Weeks) ASA P ges authorized by:
City, State, ZIP	Seattle.	REMARKS.							R	ispose eturn s	IPLE DISPOSAL after 30 days samples with instructions				
			1					<u> </u>			ANALYS	ES REQ	UESTEI	D	
Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	PCE, TCE, cis-1,2- DCE, trans-1,2-DCE, Vinyl Chloride by EPA 8260B							Notes
SP7-W	SP7	6"	OI A-D	5-27-1	1250	5	4	X							
SP7-E	SP7		02 A D		1252										
5P8-W	SP3		03 A-D		1256			X							
SPB-E	588		04 A-D		1258			X							
SPBA-W	I SP8A		05 AD		1302			$\times$							
SP8A-E	SP8A	$\overline{\mathbf{D}}$	06 A.D	$\overline{\mathbf{A}}$	1304	$\overline{\mathbf{D}}$	\$	X							
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Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by:	Brian Dixon	ses	5-27-11	1345
Seattle, WA 98119-2029	Received by-	Fuc laws	Faß	5/11	1345
Ph. (206) 285-8282	Relinquished by:		•	7	
Fax (206) 283-5044	Received by:				
FORMS\COC\COC.DOC			Samples received al.	5 9	

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 2, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on June 1, 2011 from the SOU_0651-001-02_20110601, F&BI 106001 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Brian Dixon, Dan Ramras SOU0602R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on June 1, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies 0651-001-02 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
106001-01	CSP01-SE-20110601
106001-02	CSP01-NE-20110601
106001-03	CSP01-N-20110601
106001-04	CSP01-NW-20110601
106001-05	CSP01-SW-20110601

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	CSP01-SE- 06/01/11 06/01/11 06/01/11 Soil mg/kg (ppr		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110601, F&BI 106001 106001-01 060106.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 103 102 99	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichloroe cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene		<0.05 <0.05 <0.05 <0.03 <0.025		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	CSP01-NE 06/01/11 06/01/11 06/01/11 Soil mg/kg (pp)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110601, F&BI 106001 106001-02 060107.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	103	62	142
Toluene-d8		102	55	145
4-Bromofluorobenz	ene	96	65	139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroe	ethene	< 0.05		
cis-1,2-Dichloroeth	ene	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	CSP01-N-2 06/01/11 06/01/11 06/01/11 Soil mg/kg (ppr		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110601, F&BI 106001 106001-03 060108.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 104 103 99	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichloroe cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene	ene	<0.05 <0.05 <0.05 <0.03 <0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	CSP01-NW 06/01/11 06/01/11 06/01/11 Soil mg/kg (pp)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110601, F&BI 106001 106001-04 060109.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	103	62	142
Toluene-d8		102	55	145
4-Bromofluorobenz	ene	98	65	139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroe	ethene	< 0.05		
cis-1,2-Dichloroeth	ene	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		0.033		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	CSP01-SW 06/01/11 06/01/11 06/01/11 Soil mg/kg (ppr		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110601, F&BI 106001 106001-05 060110.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 104 101 99	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichloroe cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene	ene	<0.05 <0.05 <0.05 <0.03 <0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 06/01/11 06/01/11 Soil mg/kg (ppm	ble	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110601, F&BI 106001 01-942 mb 060105.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 103 102 97	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride trans-1,2-Dichloroe cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene	ene	<0.05 <0.05 <0.05 <0.03 <0.025		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/11 Date Received: 06/01/11 Project: SOU_0651-001-02_20110601, F&BI 106001

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 106001-03 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	54	10-138
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	90	14-137
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	80	25-135
Trichloroethene	mg/kg (ppm)	2.5	< 0.03	77	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	< 0.025	91	20-133

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	82	77	22-139	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	92	67-127	6
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	88	72-113	4
Trichloroethene	mg/kg (ppm)	2.5	88	86	68-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	90	87	72-114	3

#### ENVIRONMENTAL CHEMISTS

#### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

	9600.				SAM	<b>IP</b> L	LE CH		<b><b>OF CUS</b></b>	TOD	M	£	04	01	/11		
Send Report to	RAS F	SAN	APLER:	S (sign	ature	J.		T	) PO#			Pag TU Standa	ge # or JRNAROUND TIME ard (2 Weeks)				
Company	<u>SoundEarth</u> 811 Fairvie	Strategi	les, Ind						/oodlawn/	0651-00	01-02					RUSH	arges authorized by:
City, State, ZIP						REN	MARKS				I					Dispos	AMPLE DISPOSAL se after 30 days n samples
Phone # <u>206-30</u>	6-1900	_Fax #	206-	<u>306-1907</u>	[						<u> </u>					Will ca	all with instructions
Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Tim Sampl	-	Matrix	# of Jars	PCE, TCE, cis-1,2- DCE, trans-1,2-DCE, Vinyl Chloride by EPA 8260B				ALYSE	<u>'S KEC</u>	UEST	ED	Notes
CSPOI-SE-ZOILODON	CSP01 CSPU	6"	01 A-D	6-1-11	091	10	5	4	$\times$								SAME DAY
CSPOI-NE-ZONOBO (	6411 CSPOT		02 A-D 03		051			1	X								
CS POIN N-ZOIL 0601	641 (5P01		A-D 04		08				X								
CSP01 - NW-20110601	CSPP -		A.D		082												÷
(SPO1-5W-20110601	BACTA	5	05 A-D	Ð	082	22	<u> </u>	Φ									

Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by	Brian Dixon	ses	6-1-11	0855
Seattle, WA 98119-2029	Received by: May Gu	Nhan Phan	Febr	6-1-11	2255
Ph. (206) 285-8282	Relinquished by:				
Fax (206) 283-5044	Received by:				
FORMS\COC\COC.DOC			L	ł	

Samples received at. 6 °C

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 2, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on June 2, 2011 from the SOU_0651-001-02_20110602, F&BI 106015 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Brian Dixon, Dan Ramras SOU0602R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on June 2, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-001-02_20110602, F&BI 106015 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
106015-01 [°]	CSP01-NW2-20110602
106015-02	CSP01-NW3-20110602

All quality control requirements were acceptable.

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	CSP01-NV 06/02/11 06/02/11 06/02/11 Soil mg/kg (pp)	V2-20110602 m)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110602, F&BI 106015 106015-01 060205.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	e-d4	105	49	132
Toluene-d8		102	44	140
4-Bromofluorobenz	zene	99	38	156
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloro	ethene	< 0.05		
cis-1,2-Dichloroeth	ene	< 0.05		
1,2-Dichloroethane	e (EDC)	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	CSP01-NV 06/02/11 06/02/11 06/02/11 Soil mg/kg (pp)	W3-20110602 m)	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110602, F&BI 106015 106015-02 060206.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	102	49	132
Toluene-d8		103	44	140
4-Bromofluorobenz	zene	96	38	156
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloroe	ethene	< 0.05		
cis-1,2-Dichloroeth	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 06/02/11 06/02/11 Soil mg/kg (ppm	ble	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110602, F&BI 106015 01-942 mb2 060204.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	108	49	132
Toluene-d8		104	44	140
4-Bromofluorobenz	zene	98	38	156
Compounds:		Concentration mg/kg (ppm)		
Vinyl chloride		< 0.05		
trans-1,2-Dichloro	ethene	< 0.05		
cis-1,2-Dichloroeth	ene	< 0.05		
1,2-Dichloroethane	(EDC)	< 0.05		
Trichloroethene		< 0.03		
Tetrachloroethene		< 0.025		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/02/11 Date Received: 06/02/11 Project: SOU_0651-001-02_20110602, F&BI 106015

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 106001-03 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	54	10-138
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	90	14-137
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	80	25-135
Trichloroethene	mg/kg (ppm)	2.5	< 0.03	77	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	< 0.025	91	20-133

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	82	77	22-139	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	98	92	67-127	6
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	88	72-113	4
Trichloroethene	mg/kg (ppm)	2.5	88	86	68-114	2
Tetrachloroethene	mg/kg (ppm)	2.5	90	87	72-114	3

#### ENVIRONMENTAL CHEMISTS

#### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

 $\rm pc$  – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Send Report to1 Company Address2		Strateg	es, In	c	He		ne on W	//NO. /oodlawn/	0651-0	01-02	<b>P0</b> #		Stand RUSH ush ch	arges authori	y QL Zed by:
City, State, ZIP Phone #206-30	<u>Seattle</u> 96-1900	<u>, WA 981</u> _Fax #		·306-1907		MARKS	, ·		<u>.</u>				Dispos Return	AMPLE DISP se after 30 day n samples all with instru	ys
											ANALYSE	S REQUEST	ED	1	
Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	PCE, TCE, cis-1,2- DCE, trans-1,2-DCE, Vinyl Chloride by EPA 8260B						Not	tes
cspol-Nuz-Za	110602_	61	01 A-D	6(41	815	St.	Н	X							
<u> 2501-NWZ-20</u> 501-NWZ-20	lian	6	02 A:D	6/2/4	817	58-1	4	×							
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				11	'n					·	<b>Iİ</b> _	1	I	L	
Friedman & Bruya, 2012 16th Avenue V		quished by		ATURE//	/		) F	RINTNA	ME Gm	RAC	cc 9£	OMPANY		DATE 6(7/)	TIME 847
Seattle, WA <b>98119</b> -2	2029 Rece	ived by:	m	lana		- /	The	n Ph		-/ 1		BT		6/2/11	0847
Ph. (206) 285-8282	Relin	quished by		<u>rep a</u>	<u></u>	+	- 1191				<u> </u>				0077

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 24, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on June 21, 2011 from the SOU_0651-001-02_20110621, F&BI 106292 project. There are 10 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Brian Dixon SOU0624R.DOC

#### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on June 21, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-001-02_20110621, F&BI 106292 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
106292-01	SP9-N-20110621
106292-02	SP9-E-20110621
106292-03	SP9-S-20110621
106292-04	SP10-N-20110621
106292-05	SP10-E-20110621
106292-06	SP10-S-20110621

All quality control requirements were acceptable.

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP9-N-2011062 06/21/11 06/21/11 06/21/11 Soil mg/kg (ppm)	21	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110621, F&BI 106292 106292-01 062104.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	Recovery: 100 101 105	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.025		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP9-E-2011062 06/21/11 06/21/11 06/21/11 Soil mg/kg (ppm)	21	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110621, F&BI 106292 106292-02 062105.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	Recovery: 100 100 103	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.025		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP9-S-2011062 06/21/11 06/21/11 06/21/11 Soil mg/kg (ppm)	21	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110621, F&BI 106292 106292-03 062106.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	Recovery: 101 101 103	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.025		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP10-N-201106 06/21/11 06/21/11 06/21/11 Soil mg/kg (ppm)	521	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110621, F&BI 106292 106292-04 062107.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	Recovery: 100 100 104	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroet 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.025 0.033		

#### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP10-E-201106 06/21/11 06/21/11 06/21/11 Soil mg/kg (ppm)	321	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110621, F&BI 106292 106292-05 062108.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	99 99 100 103	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	< 0.05 < 0.5 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.05 < 0.025 < 0.025		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	SP10-S-201106 06/21/11 06/21/11 06/21/11 Soil mg/kg (ppm)	321	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110621, F&BI 106292 106292-06 062109.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	6 Recovery: 99 101 103	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	$< 0.05 \\ < 0.5 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.05 \\ < 0.025 \\ < 0.025 $		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blank Not Applicable 06/21/11 06/21/11 Soil mg/kg (ppm)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110621, F&BI 106292 01-1015 mb2 062103.D GCMS4 JS
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz	-d4	Recovery: 103 101 104	Lower Limit: 62 55 65	Upper Limit: 142 145 139
Compounds:		ncentration g/kg (ppm)		
Vinyl chloride Chloroethane 1,1-Dichloroethene Methylene chloride trans-1,2-Dichloroe 1,1-Dichloroethane cis-1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane Trichloroethene Tetrachloroethene	e ethene ene (EDC)	<0.05 <0.5 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.025		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/24/11 Date Received: 06/21/11 Project: SOU_0651-001-02_20110621, F&BI 106292

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 106268-01 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	mg/kg (ppm)	2.5	< 0.05	45	10-138
Chloroethane	mg/kg (ppm)	2.5	< 0.5	61	10-176
1,1-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	64	10-160
Methylene chloride	mg/kg (ppm)	2.5	< 0.5	70	10-156
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	68	14-137
1,1-Dichloroethane	mg/kg (ppm)	2.5	< 0.05	75	19-140
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	< 0.05	77	25-135
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	< 0.05	82	12-160
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	< 0.05	74	10-156
Trichloroethene	mg/kg (ppm)	2.5	< 0.025	76	21-139
Tetrachloroethene	mg/kg (ppm)	2.5	0.090	75	20-133

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	mg/kg (ppm)	2.5	69	69	22-139	0
Chloroethane	mg/kg (ppm)	2.5	80	80	20-153	0
1,1-Dichloroethene	mg/kg (ppm)	2.5	81	79	47-128	2
Methylene chloride	mg/kg (ppm)	2.5	83	83	42-132	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	83	86	67-127	4
1,1-Dichloroethane	mg/kg (ppm)	2.5	88	93	68-115	6
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	89	94	72-113	5
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	92	97	56-135	5
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	86	94	62-131	9
Trichloroethene	mg/kg (ppm)	2.5	89	93	68-114	4
Tetrachloroethene	mg/kg (ppm)	2.5	88	92	72-114	4

#### ENVIRONMENTAL CHEMISTS

#### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

 $\rm pc$  – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

)(	0629	2			SAMP	PLE CH	AI?	<b>7</b> F CUSTODY	MEDE	/21/11 , VS
CompanyS Address2 City, State, ZIP	2811 Fairview Avenue E, Suite 2000       Hearthstone on Woodlawn/ 0651-001-02         te, ZIPSeattle, WA 98102       REMARKS         206-306-1900 Fax #206-306-1907       ANAL/YSES									Page #of TURNAROUND TIME Standard (2 Weeks) RUSHYS Ar Rush charges authorized by: SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions
Sample 1D	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	PCE, TCE, cis-1,2- DCE, trans-1,2-DCE, Vinyl Chloride by EPA \$260B	ANALYSES RE	QUESTED
SP9-N-ZOILOLZI	100 -	6"	L .		0335	1	4	$\times$		
519-E-20110621 519-5-20110621 5170-N-20110621	SPAS		02 03 04		0840 0843 0847					
5P10-6-20110621 5P10-5-20110621	SFIDE		05		0550 0555					
	<u> </u>									

Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by	Brian Dixon	ses	6-21-11	0935
Seattle, WA 98119-2029	Received by: m 4 aus	Nhan Phan	FEBT	6/21/11	0935
Ph. (206) 285-8282	Relinquished by:		• • • • • • • • • • • • • • • • • • • •	1	
Fax (206) 283-5044	Received by:				
FORMS\COC\COC.DOC	<u> </u>				

Samples received at 7 °C

Water

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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies Hearthstone PROJECT Client Project ##0651 Seattle, WA ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analytical Results

Analysis of Chlorinated Volatile Organic Compounds in Water by Method 8260

8260B Chlorinated, µg/L	M	CH BLK #1 M	TH BLK #2	LCS	WPH20110729
Matrix	Reporting	Water	Water	Water	Water
Date analyzed	Limits	07/29/11	07/29/11	07/29/11	07/29/11
Vinyl chloride	1.0	nđ	nd	131%	nd
trans-1,2-Dichloroethene	1.0	nd	nd	125%	nd
cis-1,2-Dichloroethene	1.0	nd	nđ	129%	2.1
Trichloroethene (TCE)	1.0	nd	nd	119%	1.6
Tetrachloroethene (PCE)	1.0	nd	nd	120%	77
Surrogate recoveries					
Dibromofluoromethane		100%	97%	93%	98%
Toluene-d8		101%	92%	93%	100%
4-Bromofluorobenzene		95%	98%	95%	91%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies HEARTHSTONE PROJECT Client Project # 0651 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analytical Results				0	•
8260B Chlorinated, µg/L	M	TH BLK #1	LCS	LCSD	MW24-20110801
Matrix	Reporting	Water	Water	Water	Water
Date analyzed	Limits	08/03/11	08/03/11	08/03/11	08/03/11
Vinyl chloride	1.0	nd	67%	65%	nd
trans-1,2-Dichloroethene	1.0	nd	91%	97%	nd
cis-1,2-Dichloroethene	1.0	nd	90%	103%	nd
Trichloroethene (TCE)	1.0	nd	91%	99%	nd
Tetrachloroethene (PCE)	1.0	nd	90%	96%	nd
Surrogate recoveries					
Dibromofluoromethane		100%	100%	95%	99%
Toluene-d8		108%	98%	96%	107%
4-Bromofluorobenzene		106%	92%	94%	105%

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

#### Analysis of Chlorinated Volatile Organic Compounds in Water by Method 8260





# CHAIN-OF-CUSTODY RECORD

CLIENT: Sound Barth Strategi		DATE -9/14/11 PAGE	<u>H</u>
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PHONE: 206-306-1900		LOCATION:	
	PROJECT MANAGER	COLLECTOR: UNS	COLLECTION 9/14/1
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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies, Inc HEARTHSTONE PROJECT Client Project #0651-001-02 Seattle, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

#### Analysis of Gasoline Range Organics, BTEX in Water by Method NWTPH-Gx/8260

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline Range Organics	Surrogate
Number	Analyzed	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Recovery (%)
Method Blank	8/5/2011	nd	nd	nd	nd	nd	107
LCS	8/5/2011	89%	98%	95%	103%	104%	95
LCSD	8/5/2011	82%	85%	93%	92%		95
Trip Blank	8/5/2011	nd	nd	nd	nd	nd	107
Reporting Limits		1.0	1.0	1.0	3.0	100	

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromoflurorbenzene) & LCS: 65% TO 135%

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#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies HEARTHSTONE PROJECT Client Project #651 Seattle, Washington

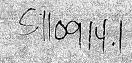
ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analytical Results			•		•	
8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	LCSdup	TRIP BLANK
Matrix		Soil	Soil	Soil	Soil	Water
Date extracted	Reporting	09/15/11	09/15/11	09/15/11	09/15/11	09/14/11
Date analyzed	Limits	09/15/11	09/15/11	09/15/11	09/15/11	09/15/11
Vinyl chloride	0.025	nd	nd	83%	75%	nd
cis-1,2-Dichloroethene	0.025	nđ	nd	88%	88%	nd
Trichloroethene (TCE)	0.025	nđ	nd	76%	76%	nd
Tetrachloroethene (PCE)	0.025	nd	nd	75%	75%	nd
Surrogate recoveries:						
Dibromofluoromethane		97%	94%	106%	118%	90%
Toluene-d8		101%	97%	103%	107%	95%
4-Bromofluorobenzene		104%	99%	95%	112%	90%

Analysis of Chlorinated Volatile Organic Compounds in Soil by Method 8260

Data Qualifiers and Analytical Comments nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

ESN NORTHWEST, INC Environmental Services Network



# **CHAIN-OF-CUSTODY RECORD**

	CLIENT: Sound Earth Strategies							DAT	E:_9/	/14/1	1		<u>.</u>	PAGE_	<u> </u>	OF	1			
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SAMPLE DISPOSAL INSTRUCTIONS						NOTES: Turn Around Time: 24 H				24 HR	18 HR 🛛	5 DAY								

#### ESN NORTHWEST CHEMISTRY LABORATORY

Sound Earth Strategies HEARTHSTONE PROJECT Client Project #651 Seattle, Washington ESN Northwest

1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

Analytical Results 8260B Halogenated, mg/kg		MTH BLK #1	MTH BLK #2	LCS	I COl	TOID DI ANIZ	
·				LCS		TRIP BLANK	
Matrix		Soil	Soil	Soil	Soil	Soil	
Date extracted	Reporting	09/16/11	09/16/11	09/16/11	09/16/11	09/15/11	
Date analyzed	Limits	09/16/11	09/16/11	09/16/11	09/16/11	09/15/11	
Vinyl chloride	0.025	nd	nd	108%	86%	nd	
cis-1,2-Dichloroethene	0.025	nd	nd	117%	99%	nd	
Trichloroethene (TCE)	0.025	nd	nd	109%	100%	nd	
Tetrachloroethene (PCE)	0.025	nd	nd	118%	96%	nd	
Surrogate recoveries:							
Dibromofluoromethane		120%	117%	116%	121%	99%	
Toluene-d8		92%	97%	101%	100%	95%	
4-Bromofluorobenzene		106%	101%	110%	96%	107%	

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits Acceptable Recovery limits: 65% TO 135% Acceptable RPD limit: 35%

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

June 14, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on June 13, 2011 from the SOU_0651-001-02_20110613, F&BI 106157 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Brian Dixon, Dan Ramras SOU0614R.DOC

### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on June 13, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-001-02_20110613, F&BI 106157 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
106157-01	WWBT20110613

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WWBT201 06/13/11 06/13/11 06/13/11 Water ug/L (ppb)	10613	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110613, F&BI 106157 106157-01 061322.D GCMS5 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4		107	63	127
Toluene-d8		104	65	127
4-Bromofluorobenz	ene	101	40	157
		Concentration		
Compounds:		ug/L (ppb)		
Vinyl chloride		<0.2		
trans-1,2-Dichloroe	ethene	<1		
cis-1,2-Dichloroeth	ene	<1		
Trichloroethene		<1		
Tetrachloroethene		8.6		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 06/13/11 06/13/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110613, F&BI 106157 01-1005 mb 061321.D GCMS5 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4		112	63	127
Toluene-d8		108	65	127
4-Bromofluorobenz	ene	106	40	157
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride		<0.2		
trans-1,2-Dichloroe	ethene	<1		
cis-1,2-Dichloroeth	ene	<1		
Trichloroethene		<1		
Tetrachloroethene		<1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/11 Date Received: 06/13/11 Project: SOU_0651-001-02_20110613, F&BI 106157

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

	r		Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	110	109	53-131	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	105	106	71-128	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	106	106	74-126	0
Trichloroethene	ug/L (ppb)	50	113	111	74-119	2
Tetrachloroethene	ug/L (ppb)	50	107	105	83-113	2

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

**b** - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Send Report toT	'om Camma	- VA- rata, Bri	/ KA, an Div	WRAS son		MPLER	<u>`</u>				<b>•</b>	Page # URNAROUNI	of	
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Seattle, WA 98119-2 Ph. (206) 285-8282		ived by: y quished by	14	Ano						Feb-		6/13/11	1030	
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

July 25, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on July 22, 2011 from the SOU_0651-001-02_20110722, F&BI 107302 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Brian Dixon, Dan Ramras SOU0725R.DOC

#### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on July 22, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-001-02_20110722, F&BI 107302 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	SoundEarth Strategies
107302-01	BT20110722

All quality control requirements were acceptable.

# ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	BT20110722 07/22/11 07/22/11 07/22/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110722, F&BI 107302 107302-01 072207.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane-d4		101	57	121
Toluene-d8		100	63	127
4-Bromofluorobenze	ne	100	60	133
		Concentration		
Compounds:		ug/L (ppb)		
Vinyl chloride		< 0.2		
trans-1,2-Dichloroet	hene	<1		
cis-1,2-Dichloroethe	ne	<1		
Trichloroethene		<1		
Tetrachloroethene		2.2		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Blat Not Applica 07/22/11 07/22/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110722, F&BI 107302 01-1314 mb 072205.D GCMS4 JS
Surrogates: 1,2-Dichloroethane- Toluene-d8 4-Bromofluorobenze		% Recovery: 99 97 99	Lower Limit: 57 63 60	Upper Limit: 121 127 133
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride trans-1,2-Dichloroet cis-1,2-Dichloroethe Trichloroethene Tetrachloroethene		<0.2 <1 <1 <1 <1 <1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 07/25/11 Date Received: 07/22/11 Project: SOU_0651-001-02_20110722, F&BI 107302

#### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 107302-01 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Vinyl chloride	ug/L (ppb)	50	< 0.2	96	36-166
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	72-129
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	71-127
Trichloroethene	ug/L (ppb)	50	<1	93	66-135
Tetrachloroethene	ug/L (ppb)	50	2.2	94	73-129

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	105	106	50-154	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	103	68-128	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	102	101	80-123	1
Trichloroethene	ug/L (ppb)	50	99	99	80-120	0
Tetrachloroethene	ug/L (ppb)	50	100	106	76-121	6

#### ENVIRONMENTAL CHEMISTS

## **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

 ${\bf b}$  - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

 $\mbox{ca}$  - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

 ${\rm J}$  - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

 $\ensuremath{\text{pr}}$  – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Sample ID BT20110722	Sample Location	Sample Depth	Lab ID 01 A-C	Date Sampled	Time Sampled	Matrix Waler	# of Jars	PCE, TCE, cis-1,2- DCE, trans-1,2-DCE, Vinyl Chloride by EPA 8260B	-	ANALYS	ES REQ	UESTED	Notes

Friedman & Bruya, Inc.	SIGNATUTE	PRINT NAME	COMPANY	DATE TIME
3012 16th Avenue West	Relinquished by:	Where DA Banks	- SE	Harfa 1257
Seattle, WA 98119-2029	Received by: May aus	Whan phan	FEBI	7/22/11 1285
Ph. (206) 285-8282	Relinquished by:			
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#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 15, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on September 7, 2011 from the SOU_0651-001-02_20110907, F&BI 109078 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures c: Brian Dixon, Dan Ramras SOU0915R.DOC

### ENVIRONMENTAL CHEMISTS

### CASE NARRATIVE

This case narrative encompasses samples received on September 7, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_0651-001-02_20110907, F&BI 109078 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
109078-01	WBT20110907

All quality control requirements were acceptable.

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WBT20110 09/07/11 09/07/11 09/07/11 Water ug/L (ppb)	907	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110907, F&BI 109078 109078-01 090722.D GCMS4 VM
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	104	57	121
Toluene-d8		100	63	127
4-Bromofluorobenz	ene	105	60	133
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride		<0.2		
trans-1,2-Dichloroe	othene	<0.2 <1		
cis-1,2-Dichloroeth		<1		
Trichloroethene		<1		
Tetrachloroethene		3.2		

## ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 09/07/11 09/07/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110907, F&BI 109078 01-1629 mb 090721.D GCMS4 VM
Surrogates: 1,2-Dichloroethane Toluene-d8 4-Bromofluorobenz		% Recovery: 102 99 100	Lower Limit: 57 63 60	Upper Limit: 121 127 133
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride trans-1,2-Dichloroe cis-1,2-Dichloroeth Trichloroethene Tetrachloroethene		<0.2 <1 <1 <1 <1 <1		

#### ENVIRONMENTAL CHEMISTS

Date of Report: 09/15/11 Date Received: 09/07/11 Project: SOU_0651-001-02_20110907, F&BI 109078

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Vinyl chloride	ug/L (ppb)	50	129	123	50-154	5
trans-1,2-Dichloroethene	ug/L (ppb)	50	107	103	68-128	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	111	108	80-123	3
Trichloroethene	ug/L (ppb)	50	108	103	80-120	5
Tetrachloroethene	ug/L (ppb)	50	115	114	76-121	1

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

 $\ensuremath{\text{ip}}$  - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Samples received at 16 °C

#### ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

May 17, 2011

Tom Cammarata, Project Manager SoundEarth Strategies 2811 Fairview Ave. East, Suite 2000 Seattle, WA 98102

Dear Mr. Cammarata:

Included are the results from the testing of material submitted on May 17, 2011 from the SOU_Hearthstone_20110517, F&BI 105193 project. There are 5 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures SOU0517R.DOC

### ENVIRONMENTAL CHEMISTS

#### CASE NARRATIVE

This case narrative encompasses samples received on May 17, 2011 by Friedman & Bruya, Inc. from the SoundEarth Strategies SOU_Hearthstone_20110517, F&BI 105193 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SoundEarth Strategies
105193-01	BT20110517

All quality control requirements were acceptable.

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	BT20110517 05/17/11 05/17/11 05/17/11 Water ug/L (ppb)	7	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_Hearthstone_20110517, F&BI 105193 105193-01 051708.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	82	57	121
Toluene-d8		85	63	127
4-Bromofluorobenz	æne	106	60	133
Compounds:		Concentration ug/L (ppb)		
Tetrachloroethene		<1		

### ENVIRONMENTAL CHEMISTS

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	Method Bla Not Applica 05/17/11 05/17/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_Hearthstone_20110517, F&BI 105193 01-816 mb 051707.D GCMS4 JS
			Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	83	57	121
Toluene-d8		85	63	127
4-Bromofluorobenz	zene	107	60	133
		Concentration		
Compounds:		ug/L (ppb)		
Tetrachloroethene		<1		

#### ENVIRONMENTAL CHEMISTS

### Date of Report: 05/17/11 Date Received: 05/17/11 Project: SOU_Hearthstone_20110517, F&BI 105193

### QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 105193-01 (Matrix Spike)

				Percent	
	Reporting	Spike	Sample	Recovery	Acceptance
Analyte	Units	Level	Result	MS	Criteria
Tetrachloroethene	ug/L (ppb)	50	<1	112	73-129

Laboratory Code: Laboratory Control Sample

			Percent	Percent		
	Reporting	Spike	Recovery	Recovery	Acceptance	RPD
Analyte	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Tetrachloroethene	ug/L (ppb)	50	109	108	76-121	1

#### ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

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ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

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Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampleo	j Matrix	# of jars	XQ-H4LWN	NWTPH-Gx	BTEX by 8021B	VOC's by \$260	SVOC's by \$270	RCRA-8 Metals	PCE			Notes
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## DRAFT

Client Sample ID:WWBT2011Date Received:08/30/11Date Extracted:08/30/11Date Analyzed:08/30/11Matrix:WaterUnits:ug/L (ppb)		0830	Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110830, 108498-01 083009.D GCMS4 JS
<b>a</b>		04 <b>D</b>	Lower	Upper
Surrogates:		% Recovery:	Limit:	Limit:
1,2-Dichloroethane	-d4	98	57	121
Toluene-d8		99	63	127
4-Bromofluorobenzene		101	60	133
		Concentration		
Compounds:		ug/L (ppb)		
Vinyl chloride		<0.2		
trans-1,2-Dichloroe	ethene	<1		
cis-1,2-Dichloroeth	ene	<1		
Trichloroethene		<1		
Tetrachloroethene		4.9		

Client Sample ID:Method BlDate Received:Not ApplicDate Extracted:08/30/11Date Analyzed:08/30/11Matrix:WaterUnits:ug/L (ppb)			Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110830 01-1520 mb 083006.D GCMS4 JS
Surrogates: 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene		% Recovery: 100 99 103	Lower Limit: 57 63 60	Upper Limit: 121 127 133
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride trans-1,2-Dichloroe cis-1,2-Dichloroethe Trichloroethene Tetrachloroethene		<0.2 <1 <1 <1 <1 <1		

## DRAFT

Client Sample ID: Date Received: Date Extracted: Date Analyzed: Matrix: Units:	WWBT20110920 09/20/11 09/20/11 09/20/11 Water ug/L (ppb)		Client: Project: Lab ID: Data File: Instrument: Operator:	SoundEarth Strategies SOU_0651-001-02_20110920, F&BI 109268 109268-01 092008.D GCMS4 JS
Surrogates: 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene		% Recovery: 99 98 100	Lower Limit: 57 63 60	Upper Limit: 121 127 133
Compounds:		Concentration ug/L (ppb)		
Vinyl chloride trans-1,2-Dichloroe cis-1,2-Dichloroethe Trichloroethene Tetrachloroethene		<0.2 <1 <1 <1 <1 5.8		