

Waste Characterization and Soil Excavation Report

1512 Highway 97
Ellensburg, Washington

October 21, 2011
Project No. 81117058

Prepared for:

Love's Travel Stops & Country Stores
Oklahoma City, Oklahoma

Prepared by:

Terracon Consultants, Inc.
Mountlake Terrace, Washington

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon



October 21, 2011

Love's Travel Stops & Country Stores
P.O. Box 26210
Oklahoma City, OK 73126

Attn: Mr. Michael Key

Re: Waste Characterization and Soil Excavation Report
1512 Highway 97
Ellensburg, Washington
Terracon Project No. 81117058

Dear Mr. Key:

Terracon Consultants, Inc. (Terracon) is pleased to submit this report documenting the waste characterization sampling and laboratory analysis and subsequent remedial excavation conducted at the above-referenced site. Our services were completed in accordance with our proposal dated July 8, 2011, and with the subsequent supplement to agreement for services dated August 18, 2011.

We appreciate the opportunity to perform these services for Love's Travel Stops & Country Stores. Please contact either of the undersigned at (425) 771-3304 if you have questions regarding the information provided in the report.

Sincerely,

Terracon

Chad Kean, CHMM, CPSWQ
Project Manager

Sean W. Donnan, P.G.
Principal



SEAN W. DONNAN

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WASTE CHARACTERIZATION AND SOIL EXCAVATION REPORT

LOVE'S TRAVEL STOP
1512 HIGHWAY 97
ELLENSBURG, WASHINGTON

TERRACON PROJECT NO. 81117058
OCTOBER 21, 2011

1.0 INTRODUCTION

1.1 Site Description

Site Location/Address	1512 Highway 97 Ellensburg, Kittitas County, Washington 98922
General Site Description	The site consists of Kittitas County tax parcel 376133 and comprises approximately 5.78 acres. The site is currently improved with an approximately 6,056 square-foot commercial building.

A topographic map indicating the approximate location of the site is included as Figure 1 of Appendix A. A site plan showing the swale/excavation location is included as Figure 2 of Appendix A.

1.2 Project Information

Terracon understands that the site has been developed with the existing commercial fueling station since 1996. It is our understanding that a stormwater swale located at the site became clogged with silt and needed to be cleaned out so that the stormwater treatment system could work properly. Based on emails that were forwarded to Terracon the swale needed to be cleaned out and the excavation sediment needed to be characterized.

Terracon was retained by Love's Travel Stops & Country Stores (Love's) to conduct waste characterization soil sampling of the swale sediment, remove and dispose of the swale sediment and to place quarry spalls in the swale following sediment removal. The swale sediment removal and disposal activities were performed by Ken Leingang Excavation, Inc. (Leingang) of Yakima, Washington, along with placement of quarry spalls under direct contract to Terracon.

Jon Morrow, the City of Ellensburg Stormwater Manager, defined the scope of the project

through both verbal and email correspondence between Love's and Terracon. In addition Mr. Morrow oversaw field operations at the site in person during the removal of the sediment and placement of the quarry spalls.

1.3 Scope of Work

Terracon's services were completed in accordance with our proposal dated July 8, 2011, and with the subsequent supplement to agreement for services dated August 18, 2011. Our scope of services included completion of the following tasks:

- Task 1. Terracon coordinated with the excavation contractor, the client, and the selected permitted facility to complete waste profile generator application materials to facilitate final off-site disposition of excavation spoils.
- Task 2. Terracon coordinated meeting with Jon Morrow, City of Ellensburg Stormwater Manager, prior to start of work at the site to discuss best management practices, erosion control and the stream buffer area requirements. In addition Terracon scheduled the onsite work to allow Mr. Morrow to be onsite during the excavation.
- Task 3. Supervised and documented the excavation of impacted sediment. The excavating contractor, under subcontract to our firm, exhumed the impacted sediment.
- Task 4. Excavated sediment was exported from the site by the earthwork contractor. Sediment was transported to an appropriate disposal facility for final disposition.
- Task 5. Prepared this report summarizing the results of our findings, remedial excavation of petroleum impacted sediment, and conclusions and recommendations for additional work, if any.

1.4 Project Objectives

The objectives of this project were to provide waste characterization of the stormwater swale sediment and oversee excavation and disposal activities associated with the removal of sediment from the stormwater swale. In addition Terracon oversaw the placement of quarry spalls to stabilize the stormwater swale following removal of the sediment. In the event analytical results indicated that a release has occurred, recommend additional steps to address petroleum contaminated sediment in the stormwater swale and surrounding areas.

1.5 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied, regarding the findings,

conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report. Our services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-97.

1.6 Additional Scope Limitations

This report was intended to reduce, but not eliminate, uncertainty regarding the existence of recognized environmental conditions in connection with the subject site. Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, non-detectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this project. Subsurface conditions may vary from those encountered at the time of construction or at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services. The data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services. If, during future site development, different subsurface conditions from those encountered during our explorations are observed or appear to be present, we must be advised promptly so that we can review these conditions and reconsider or modify our conclusions and recommendations where necessary.

1.7 Reliance

This Waste Characterization and Soil Excavation Report is certified to, can be relied upon by, and has been prepared for the exclusive use of the following entities: Love's and their respective successors, assigns, affiliates, and subsidiaries.

Use or reliance by any other party is prohibited without the written authorization of Love's and Terracon.

Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in accordance with our proposal dated July 8, 2011, and with the subsequent supplement to agreement for services dated August 18, 2011. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to the client and all relying parties unless otherwise agreed in writing.

2.0 WASTE CHARACTERIZATION

2.1 Methodology and Soil Sampling

On July 21, 2011, Terracon advanced one hand auger boring to a maximum depth of approximately 2 feet below ground surface in the swale at the site. One soil sample was collected from the hand auger boring. The sample was collected from the interval of most likely environmental impact as determined in the field by the sampling professional. The sample was collected in an effort to characterize the swale sediment prior to disposal.

The soil sample was collected by hand from a hand auger using disposable gloves and placed directly into laboratory supplied glassware. The sample containers for soil were labeled with the Terracon job number, site name, date, time, exploration number, sample number, and sampling personnel. Sample containers were placed in a chilled cooler immediately after sampling, and subsequently transported to the analytical laboratory under strict chain-of-custody procedures.

The sample was delivered to Friedman & Bruya, Inc., a State of Washington State accredited analytical laboratory, in strict accordance with the industry standard chain-of-custody procedures. The sample was analyzed for gasoline-range total petroleum hydrocarbons (TPH) using Northwest Method NWTPH-Gx, diesel- and heavier than diesel-range TPH using NWTPH-Dx, volatile compounds by EPA Method 8260C and polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270 SIM. In addition the sample was analyzed for RCRA-8 TCLP Metals by EPA Method 1311/200.8/1631E. The soil sample collected was submitted using standard (10-day) turnaround time. TCLP analysis was conducted to meet the requirements of landfill acceptance criteria.

Terracon's site activities included the following tasks:

1. Soil sampling;
2. Analytical laboratory testing;
3. Determine if additional remedial excavation is warranted in the event that a release is identified;

2.2 Analytical Laboratory Testing

The soil sample was submitted for chemical analysis to Freidman & Bruya, Inc., a Washington State accredited laboratory. The sample was analyzed for gasoline-range total petroleum hydrocarbons (TPH) using Northwest Method NWTPH-Gx, diesel- and heavier than diesel-range TPH using NWTPH-Dx, volatile compounds by EPA Method 8260C and polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270 SIM. In addition the sample was analyzed for RCRA-8 TCLP Metals by EPA Method 1311/200.8/1631E.

The executed chain-of-custody forms and laboratory analytical certificates are provided in

Appendix C. All analyses were completed using standard turnaround times.

Data packages were checked for completeness immediately upon receipt from the laboratory to ensure that data and QA/QC information requested were present. Data quality was assessed by considering holding times, surrogate recovery, method blanks, matrix spike and matrix spike duplicate recovery, and detection limits.

2.3 Analytical Laboratory Results

One soil sample was collected at a depth of two feet from the environmental soil boring (B-1). Soil quality summary results are presented in Tables 1, 2 and 3 below. The complete laboratory report and chain-of-custody are included in Appendix C. Additional discussion and interpretation of analytical results relative to applicable cleanup levels is included in Section 4.

Table 1 below summarizes the TPH and VOCs with Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A Cleanup Levels for unrestricted land use.

Table 1. Summarized Soil TPH and VOC Analytical Results

Sample Number	Sample Depth (ft)	Total Petroleum Hydrocarbons (mg/kg)			Volatile Organic Compounds (mg/kg)				
		Gasoline-Range	Diesel-Range	Oil-Range	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
81117058-DP-01	2	9.4	2,800	2,600	ND (<0.03)	ND (<0.05)	0.079	1.14	0.33
MTCA Method A Cleanup Level		100	2,000	2,000	0.03	7	6	9	5

mg/kg: milligrams per kilogram (parts-per-million); ND: Not detected above indicated laboratory minimum reporting limit. Bold values exceed MTCA Method A cleanup levels. Please refer to Appendix C for the complete set of analytes and analytical results.

In addition, other VOCs were identified at low concentrations in sample 81117058-DP-01 as summarized in Table 2 below.

Table 2: Additional Soil VOC Analytical Results

Sample	Depth (ft)	Analyte (mg/kg)				
		n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	sec-Butylbenzene	p-Isopropyltoluene
81117058-DP-01	2	0.057	0.33	0.72	0.050	0.055
MTCA Method A Cleanup Level		NE	NE	NE	NE	NE
MTCA Method B Cleanup Level		NE	NE	NE	NE	NE

mg/kg: milligrams per kilogram (parts-per-million); NE: Not established; Please refer to Appendix C for the complete

set of analytes and analytical results.

VOCs not listed in Tables 1 and 2 above were not identified at concentrations exceeding laboratory MRLs.

In addition the soil sample collected at a depth of two feet from the environmental soil borings (B-1) was analyzed for RCRA-8 TCLP Metals by EPA Method 1311/200.8/1631E. Results are summarized in Table 3 below.

Table 3. Summarized Soil Metals Analytical Results

Sample Number	Sample Depth (ft)	Analyte (mg/kg)							
		Chromium	Arsenic	Selenium	Silver	Cadmium	Barium	Lead	Mercury
811170 58-DP-01	2	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<1)	ND (<0.1)
Dangerous Waste TCLP Maximum Concentration Level		5.0	5.0	1.0	5.0	1.0	100.0	5.0	0.2

mg/L: milligrams per Liter (parts-per-million); ND: Not detected above indicated laboratory minimum reporting limit. Bold values exceed MTCA Method A cleanup levels. Please refer to Appendix C for the complete set of analytes and analytical results.

Based on our site observations and soil analytical results, a release of diesel- and heavier than diesel-range TPH was identified at concentrations exceeding the Model Toxics Control Act (MTCA) Method A cleanup level for diesel- and heavier than diesel-range TPH in soils established under Chapter 173-340 WAC. As a result, Terracon recommended excavation of the petroleum impacted sediment from the swale area followed by collection of post excavation confirmation soil samples to determine if all of the petroleum impacted sediment was removed from the swale.

2.4 Quality Assurance/Quality Control Results

The analytical results for the current investigation were checked for completeness immediately upon receipt from the laboratory to ensure that data and QA/QC information requested were present. Data quality was assessed by considering hold times, surrogate recovery, method blanks, matrix spike and matrix spike duplicate (MS/MSD) recovery, and detection limits. QA/QC review was completed using guidance described in *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (Draft Final, USEPA, 2005). Our evaluation assumes that the QA/QC is correct as reported by the laboratory, and merely provides an interpretation of the QA/QC results.

Hold Times. All analyses were completed within specified hold times.

Surrogate Recoveries. All surrogate recoveries were within laboratory limits with the exception of two volatile compounds by EPA Method 8260C. The two compounds (Bromomethane and Trichlorofluoromethane) were detected at levels far below their respective MTCA cleanup levels.

Method Blanks. Analytes were not detected in any of the laboratory method blanks.

MS/MSD Results. MS and MSD recoveries were all within laboratory limits, and Relative Percent Differences (RPDs) between MS and MSD recoveries were all within laboratory limits.

Laboratory Reporting Limits. Reporting limits were below relevant MTCA cleanup levels.

Based upon our interpretation of quality control information provided by the laboratories, it is our opinion that the overall dataset is useable as qualified for the purposes of this Waste Characterization and Soil Excavation Report.

3.0 SOIL EXCAVATION

3.1 Remedial Excavation

On August 22, 2011, Terracon, Jon Morrow (City of Ellensburg) and Leingang, under subcontract to Terracon, mobilized to the site to conduct excavation of petroleum impacted sediment from the swale, soil sampling, off-site disposition of PCS, and backfill of the swale with quarry spalls. The objective of the excavation was to remove sediment to the extent practical from the swale and place quarry spalls to stabilize the swale for use.

Terracon and Leingang, under the direction of Mr. Morrow, excavated sediment from the swale. The sediment was placed directly into a lined dump truck for off-site disposal at Rabanco Regional Disposal in Roosevelt, Washington. Towards the end of the excavation of sediment groundwater started infiltrating the swale from east wall at a fairly rapid rate. At the direction of Mr. Morrow, Terracon and Leingang terminated excavating sediment and immediately started placing quarry spalls to stabilize the swale prior to discharge due to the rising water levels. Following completion of the placement of quarry spalls the swale had a static water level approximately one foot higher than the original level of sediment prior to excavation. Due to the rising water levels and final static level it was not possible for Terracon to collect post excavation confirmation soil samples following removal of the sediment.

In total, 6.47 tons of sediment was hauled from the site for final off-site disposition at Rabanco Regional Disposal in Roosevelt, Washington. Truck scale tickets and the Certificate of Disposal are included in Appendix B. Following off-site disposal of sediment, the contractor backfilled the remedial excavation with quarry spalls at the direction of Mr. Morrow. The contractor placed an approximate one to two-foot lift of quarry spalls along the bottom and sides of the swale.

4.0 FINDINGS AND DISCUSSION

Terracon completed a Waste Characterization and Soil Excavation Report for the above-referenced site. The findings of this report are as follows:

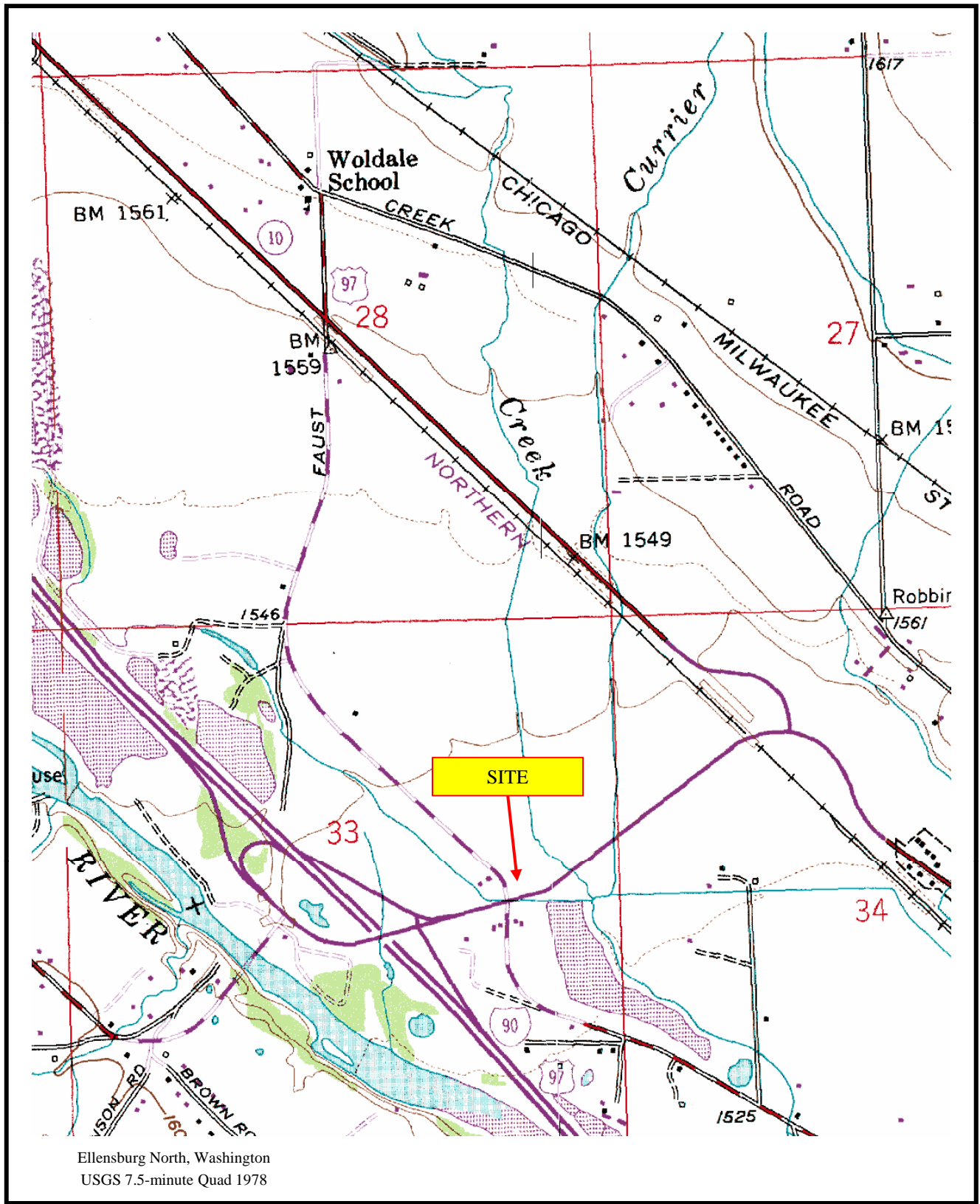
- Diesel-range TPH was identified at 2,800 mg/kg and oil-range TPH was identified at 2,600 mg/kg, above the MTCA Method A cleanup level for diesel- and oil-range TPH in soil in the waste characterization sample collected from the swale sediment.
- Excavation of the sediment from the swale was completed in an effort to rehabilitate the swale for use. Due to the rising water levels and final static level it was not possible for Terracon to collect post excavation confirmation soil samples following removal of the sediment from the swale. The contractor placed an approximate one to two-foot lift of quarry spalls along the bottom and sides of the swale to stabilize the swale following removal of the sediment.
- In total, 6.47 tons of sediment was hauled from the site for final off-site disposition at Rabanco Regional Disposal in Roosevelt, Washington.

5.0 RECOMMENDATIONS

Based on the analytical results for the waste characterization soil sample collected during sampling activities conducted on July 21, 2011, and field remedial excavation activities conducted on August 22, 2011, it appears that the sediment impacted with diesel- and oil-range TPH has been removed. Due to the rising water levels and final static level it was not possible for Terracon to collect post excavation confirmation soil samples following removal of sediment from the swale. Therefore, it is not possible for Terracon to determine if any of the remaining soil has been impacted with diesel- and oil-range TPH. Terracon recommends that Love's notify the Washington State Department of Ecology Toxics Cleanup Program of a release at the site and inform them of the current status.

APPENDIX A

Figures



Not to Scale

Terracon



TERRACON PROJECT NO.: 81117058



TOPOGRAPHIC MAP

Waste Characterization and Soil Excavation Report
1512 Highway 97
Ellensburg, Kittitas County, Washington

October 2011

Figure 1



-  - Approximate Swale Excavation Area
-  - Approximate Sample Location

Not to Scale



TERRACON PROJECT NO.: 81117058

SWALE EXCAVATION
Waste Characterization and Soil Excavation Report
1512 Highway 97
Ellensburg, Kittitas County, Washington

October 2011

Figure 2

APPENDIX B

Supporting Documentation

Certification No: TB-10662
Billing Acct. No. 60148
Product Code 660

**BILL OF LADING
CONTAMINATED SOIL**

REGIONAL DISPOSAL COMPANY
54 S. Dawson Street
Seattle, WA 98134
Telephone: (206) 332-7700 / Fax: (206) 332-7600

This Bill of Lading augments the Master Service Agreement ("Agreement") entered into by Ken Leingang ("Generator/Agent") and Regional Disposal Company ("RDC") on 8/19/11 (date). The terms herein are made a part of the Agreement. In the event of conflict between this Bill of Lading and the Agreement, the terms of the Agreement prevail.

RDC hereby authorizes the Wastes ("Waste") described in Certification No. TB-10662, signed by Generator/Agent on 8/19/11 (date), for disposal at Roosevelt Regional Landfill. Generator/Agent shall present a copy of this Bill of Lading with each shipment delivered.

Location of Waste: 1512 Highway 97 Ellensburg, WA
Method of Shipment: Customer Haul

Additional Fees (e.g., laboratory fees, transportation fees, special handling fees, etc. If none, so state):

8/22/11 Delivery

PERFORMANCE DATE

FOR RDC TRANSPORTATION: Generator/Agent shall make the Waste available for shipment no later than _____ (date). RDC shall transport the Waste no later than _____ (date), unless RDC notifies the Generator/Agent in writing that Waste transport shall be suspended or canceled due to RDC's exercise of its right to inspect or analyze the Waste (as provided in the Agreement).

GENERATOR/AGENT TRANSPORTATION: Generator/Agent shall begin delivery of the Waste at [check one]:

- Direct Roosevelt Regional Landfill. Seattle Transfer Station located at Third and Lander.

Waste delivery shall begin no later than 8/19/11 (date), and shall complete delivery of the Waste no later than _____ (date), unless RDC notifies Generator/Agent in writing to suspend or cancel the waste delivery due to RDC's exercise of its right to inspect or analyze the Waste (As provided in the Agreement).

GENERATOR/AGENT

[Signature]
Signature:

PAT RYAN PROJECT SUPERINTENDENT
Printed Name and Title

8-19-11
Date

REGIONAL DISPOSAL COMPANY

[Signature]
Signature

TERESA DILLASHAW
Printed Name and Title

8/19/11
Date

ALL TRUCKS MUST HAVE A COPY OF THIS BILL OF LADING WHEN DELIVERING WASTE TO THE TRANSFER STATION OR TO THE LANDFILL.

Revised 10/15/06



Republic Services, Inc.

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #
41781113041

Expiration Date
7/21/2012

I. Decision Request:

Initial Recertification Change

Disposal Facility: 4178 - Roosevelt Regional MSW L/F

Generator Name: Love's Travel Stops & Country Stores

Generator Site Address: 1512 Hwy 87

City: Ellensburg

County:

State: WA

Zip:

Name of Waste: Stormwater Pond Sediment

Estimated Annual Volume: 5 Cubic Yards

II. Special Waste Department Decision: Approved Rejected

Management Method(s): Landfill Solidification Bioremediation Transfer Facility

Problematic Special Waste according to Republic? Yes No

If yes, which one? _____

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: Leslie Hamilton

Date: 8/19/2011

Name (Printed): Leslie Hamilton

III. Facility Decision:

Approved Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____

Name (Printed): _____

Date: 8/19/2011



SPECIAL WASTE PROFILE

Page 1 of 2

Requested Disposal Facility: 4178 Roosevelt Regional MSW LF WA

Waste Profile #

See table FR-1a form. Restricted printing until all required (yellow) fields are completed.

Sales Rep #:

I. Generator Information

Generator Name: Love's Travel Stops & Country Stores			
Generator Site Address: 1512 Highway 97			
City: Ellensburg	County: Kittitas	State: Washington	Zip: 98926
State ID/Reg No: n/a	State Approval/Waste Code: n/a (if applicable)		NAICS #: n/a
Generator Mailing Address (if different): <input checked="" type="checkbox"/> P.O. Box 26210			
City: Oklahoma City	County: Oklahoma	State: Oklahoma	Zip: 73126
Generator Contact Name: Kimberly Mills			Email: kimberly.mills@loves.com
Phone Number: (405) 687-1060	Ext:	Fax Number: (405) 463-3689	

IIa. Transporter Information

Transporter Name: Ken Leingang Excavating, Inc.		Contact Name: Darren Leingang	
Transporter Address: 1117 N. 27th Avenue			
City: Yakima	County: Yakima	State: Washington	Zip: 98902
Phone: (509) 575-5507	Fax: (509) 457-3297	State Transportation Number: 1779826	

IIb. Billing Information

Bill To: Ken Leingang Excavating, Inc.		Contact Name: Darren Leingang	
Billing Address: 1117 N. 27th Avenue			Email:
City: Yakima	State: Washington	Zip: 98902	Phone: (509) 575-5507

III. Waste Stream Information

Name of Waste: Stormwater Pond Sediment	
Process Generating Waste: Stormwater pond sediment removal	
Type of Waste:	<input type="checkbox"/> INDUSTRIAL PROCESS WASTE <input checked="" type="checkbox"/> POLLUTION CONTROL WASTE
Physical State:	<input checked="" type="checkbox"/> SOLID <input type="checkbox"/> SEMI-SOLID <input type="checkbox"/> POWDER <input type="checkbox"/> LIQUID
Method of Shipment:	<input checked="" type="checkbox"/> BULK <input type="checkbox"/> DRUM <input type="checkbox"/> BAGGED <input type="checkbox"/> OTHER:
Estimated Annual Volume:	5 Cubic Yards
Frequency:	<input checked="" type="checkbox"/> ONE TIME <input type="checkbox"/> ANNUAL
Disposal Consideration:	<input checked="" type="checkbox"/> LANDFILL <input type="checkbox"/> SOLIDIFICATION <input type="checkbox"/> BIOREMEDIATION

IV. Representative Sample Certification NO SAMPLE TAKEN

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent rules?		<input checked="" type="checkbox"/> YES or <input type="checkbox"/> NO
Sample Date: 7/21/11	Type of Sample: <input checked="" type="checkbox"/> COMPOSITE SAMPLE <input type="checkbox"/> GRAB SAMPLE	
Sample ID Numbers: 81117058-DP-01		



SPECIAL WASTE PROFILE

Waste Profile #

V. Physical Characteristics of Waste

Characteristic Components	% by Weight (range)
1. Soil	99.995
2. Total Petroleum Hydrocarbons (Gx & Dx)	0.005
3.	
4.	
5.	

Color	Odor (describe)	Does Waste Contain Free Liquids?	% Solids	pH:	Flash Point
Brown/Black	Light oil smell	<input type="checkbox"/> YES or <input checked="" type="checkbox"/> NO	100	n/a	n/a °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Chain of Custody and Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and it epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm)[reference 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste a reactive or heat generating waste?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Does the waste contain sulfur or sulfur by-products?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste generated at a Federal Superfund Clean Up Site?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No
Is this waste from a TSD facility, TSD like facility or consolidator?	<input type="checkbox"/> Yes or <input checked="" type="checkbox"/> No

VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services Inc.

Kimberley Mills <i>Chris Weldon</i> Authorized Representative Name And Title (Type or Print)	Love's Travel Stops & Country Stores Company Name
<i>Chris Weldon</i> Authorized Representative Signature	[Stamp] Date

1526856

RAVANDO REGIONAL DISPOSAL
P.O. BOX 338
Roosevelt, WA 99356
(509) 384-5641

060148 - 0001
Ken Leingang Excavating, Inc.
Ken Leingang Excavating, Inc.

Contract: TB-10662

SITE 3	TICKET 501553	GRID 000000
WEIGHMASTER GH00036 GAIL H		
DATE IN 22 August 2011	TIME IN 11:02 AM	
DATE OUT 22 August 2011	TIME OUT 11:27 AM	
VEHICLE 35	ROLL OFF	
REFERENCE	ORIGIN Ellensburg	

1 Gross Weight 39,100.00 LB
 Tare Weight 26,160.00 LB
 Net Weight 12,940.00 LB 6.47 TN

QTY	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
6.47	TN	66 [A8] Cont Soil Inbound - RAIL TICKET Seattle 20 - 48 Ft				

0.00 YD

NET AMOUNT
TENDERED
CHANGE
CHECK NO.



REV 11/09

SIGNATURE

RS-F04-4pt

APPENDIX C

Laboratory Data Sheets

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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July 29, 2011

Chad Kean
Terracon
Pacific Cascade Building
21905 64th Ave. W., Suite 100
Mountlake Terrace, WA 98043

Dear Mr. Kean:

Included are the results from the testing of material submitted on July 21, 2011 from the Love's 81117058, F&BI 107293 project. There are 18 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
TRC0729R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 21, 2011 by Friedman & Bruya, Inc. from the Terracon Love's 81117058, F&BI 107293 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
107293-01

Terracon
81117058-DP-01

The 8260C calibration standard failed the acceptance criteria for several analytes. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11
Date Received: 07/21/11
Project: Love's 81117058, F&BI 107293
Date Extracted: 07/22/11
Date Analyzed: 07/22/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING METHOD NWTPH-Gx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate (% Recovery) (Limit 50-150)
81117058-DP-01 107293-01	9.4	105
Method Blank 01-1313 MB	<2	102

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11
Date Received: 07/21/11
Project: Love's 81117058, F&BI 107293
Date Extracted: 07/22/11
Date Analyzed: 07/22/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
81117058-DP-01 107293-01	2,800	2,600	116
Method Blank 01-1310 MB	<50	<250	111

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	81117058-DP-01	Client:	Terracon
Date Received:	07/21/11	Project:	Love's 81117058, F&BI 107293
Date Extracted:	07/26/11	Lab ID:	107293-01
Date Analyzed:	07/26/11	Data File:	107293-01.010
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	100	60	125
Holmium	98	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Chromium	<1	5.0
Arsenic	<1	5.0
Selenium	<1	1.0
Silver	<1	5.0
Cadmium	<1	1.0
Barium	<1	100
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for TCLP Metals By EPA Method 200.8 and 40 CFR PART 261

Client ID:	Method Blank	Client:	Terracon
Date Received:	NA	Project:	Love's 81117058, F&BI 107293
Date Extracted:	07/26/11	Lab ID:	I1-516 mb
Date Analyzed:	07/26/11	Data File:	I1-516 mb.008
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/L (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	98	60	125
Holmium	96	60	125

Analyte:	Concentration mg/L (ppm)	TCLP Limit
Chromium	<1	5.0
Arsenic	<1	5.0
Selenium	<1	1.0
Silver	<1	5.0
Cadmium	<1	1.0
Barium	<1	100
Lead	<1	5.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11

Date Received: 07/21/11

Project: Love's 81117058, F&BI 107293

Date Extracted: 07/26/11

Date Analyzed: 07/27/11

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TCLP MERCURY IN ACCORDANCE WITH
EPA METHOD 1631E AND 40 CFR PART 261**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>TCLP Mercury</u>
81117058-DP-01 107293-01	<0.1
Method Blank	<0.1
<i>TCLP Limit</i>	<i>0.2</i>

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	81117058-DP-01	Client:	Terracon
Date Received:	07/21/11	Project:	Love's 81117058, F&BI 107293
Date Extracted:	07/25/11	Lab ID:	107293-01
Date Analyzed:	07/25/11	Data File:	072523.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	42	158
Toluene-d8	101	42	159
4-Bromofluorobenzene	102	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5 ca	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5 ca	Ethylbenzene	0.079
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	0.66
Methylene chloride	<0.5	o-Xylene	0.48
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	0.057
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	0.33
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	0.72
Trichloroethene	<0.03	sec-Butylbenzene	0.050
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	0.055
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	0.33
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Terracon
Date Received:	NA	Project:	Love's 81117058, F&BI 107293
Date Extracted:	07/25/11	Lab ID:	01-1260 mb
Date Analyzed:	07/25/11	Data File:	072508.D
Matrix:	Soil	Instrument:	GCMS5
Units:	mg/kg (ppm)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	42	158
Toluene-d8	101	42	159
4-Bromofluorobenzene	103	36	160

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Dichlorodifluoromethane	<0.5	1,3-Dichloropropane	<0.05
Chloromethane	<0.5	Tetrachloroethene	<0.025
Vinyl chloride	<0.05	Dibromochloromethane	<0.05
Bromomethane	<0.5 ca	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5 ca	Ethylbenzene	<0.05
Acetone	<0.5	1,1,1,2-Tetrachloroethane	<0.05
1,1-Dichloroethene	<0.05	m,p-Xylene	<0.1
Methylene chloride	<0.5	o-Xylene	<0.05
Methyl t-butyl ether (MTBE)	<0.05	Styrene	<0.05
trans-1,2-Dichloroethene	<0.05	Isopropylbenzene	<0.05
1,1-Dichloroethane	<0.05	Bromoform	<0.05
2,2-Dichloropropane	<0.05	n-Propylbenzene	<0.05
cis-1,2-Dichloroethene	<0.05	Bromobenzene	<0.05
Chloroform	<0.05	1,3,5-Trimethylbenzene	<0.05
2-Butanone (MEK)	<0.5	1,1,2,2-Tetrachloroethane	<0.05
1,2-Dichloroethane (EDC)	<0.05	1,2,3-Trichloropropane	<0.05
1,1,1-Trichloroethane	<0.05	2-Chlorotoluene	<0.05
1,1-Dichloropropene	<0.05	4-Chlorotoluene	<0.05
Carbon tetrachloride	<0.05	tert-Butylbenzene	<0.05
Benzene	<0.03	1,2,4-Trimethylbenzene	<0.05
Trichloroethene	<0.03	sec-Butylbenzene	<0.05
1,2-Dichloropropane	<0.05	p-Isopropyltoluene	<0.05
Bromodichloromethane	<0.05	1,3-Dichlorobenzene	<0.05
Dibromomethane	<0.05	1,4-Dichlorobenzene	<0.05
4-Methyl-2-pentanone	<0.5	1,2-Dichlorobenzene	<0.05
cis-1,3-Dichloropropene	<0.05	1,2-Dibromo-3-chloropropane	<0.5
Toluene	<0.05	1,2,4-Trichlorobenzene	<0.25
trans-1,3-Dichloropropene	<0.05	Hexachlorobutadiene	<0.25
1,1,2-Trichloroethane	<0.05	Naphthalene	<0.05
2-Hexanone	<0.5	1,2,3-Trichlorobenzene	<0.25

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	81117058-DP-01	Client:	Terracon
Date Received:	07/21/11	Project:	Love's 81117058, F&BI 107293
Date Extracted:	07/26/11	Lab ID:	107293-01 1/50
Date Analyzed:	07/27/11	Data File:	072615.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	50	50	150
Benzo(a)anthracene-d12	199 ds	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	0.59
Acenaphthylene	<0.1
Acenaphthene	0.12
Fluorene	0.76
Phenanthrene	1.2
Anthracene	<0.1
Fluoranthene	0.20
Pyrene	0.68
Benz(a)anthracene	<0.1
Chrysene	0.18
Benzo(a)pyrene	<0.1
Benzo(b)fluoranthene	<0.1
Benzo(k)fluoranthene	<0.1
Indeno(1,2,3-cd)pyrene	<0.1
Dibenz(a,h)anthracene	<0.1
Benzo(g,h,i)perylene	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	Terracon
Date Received:	NA	Project:	Love's 81117058, F&BI 107293
Date Extracted:	07/26/11	Lab ID:	01-1330 mb 1/5
Date Analyzed:	07/26/11	Data File:	072611.D
Matrix:	Soil	Instrument:	GCMS6
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	102	50	150
Benzo(a)anthracene-d12	115	35	159

Compounds:	Concentration mg/kg (ppm)
Naphthalene	<0.01
Acenaphthylene	<0.01
Acenaphthene	<0.01
Fluorene	<0.01
Phenanthrene	<0.01
Anthracene	<0.01
Fluoranthene	<0.01
Pyrene	<0.01
Benz(a)anthracene	<0.01
Chrysene	<0.01
Benzo(a)pyrene	<0.01
Benzo(b)fluoranthene	<0.01
Benzo(k)fluoranthene	<0.01
Indeno(1,2,3-cd)pyrene	<0.01
Dibenz(a,h)anthracene	<0.01
Benzo(g,h,i)perylene	<0.01

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11

Date Received: 07/21/11

Project: Love's 81117058, F&BI 107293

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING METHOD NWTPH-Gx**

Laboratory Code: 107260-06 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11

Date Received: 07/21/11

Project: Love's 81117058, F&BI 107293

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL
SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-Dx**

Laboratory Code: 107276-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	92	92	63-146	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11

Date Received: 07/21/11

Project: Love's 81117058, F&BI 107293

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TCLP METALS USING
EPA METHOD 200.8 AND 40 CFR PART 261**

Laboratory Code: 107293-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2.0	<1	94	96	50-150	2
Arsenic	mg/L (ppm)	1.0	<1	99	100	50-150	1
Selenium	mg/L (ppm)	0.5	<1	99	96	50-150	3
Silver	mg/L (ppm)	0.5	<1	97	96	50-150	1
Cadmium	mg/L (ppm)	0.5	<1	99	100	50-150	1
Barium	mg/L (ppm)	5.0	<1	102	103	50-150	1
Lead	mg/L (ppm)	1.0	<1	96	97	50-150	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/L (ppm)	2.0	96	70-130
Arsenic	mg/L (ppm)	1.0	97	70-130
Selenium	mg/L (ppm)	0.5	99	70-130
Silver	mg/L (ppm)	0.5	95	70-130
Cadmium	mg/L (ppm)	0.5	98	70-130
Barium	mg/L (ppm)	5.0	99	70-130
Lead	mg/L (ppm)	1.0	95	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11

Date Received: 07/21/11

Project: Love's 81117058, F&BI 107293

**QUALITY ASSURANCE RESULTS
FROM THE ANALYSIS OF THE SOIL SAMPLES FOR TCLP MERCURY IN
ACCORDANCE WITH EPA METHOD 1631E AND 40 CFR PART 261**

Laboratory Code: 107293-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Mercury	mg/L (ppm)	0.005	<0.1	103	106	48-160	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	mg/L (ppm)	0.005	100	79-126

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11

Date Received: 07/21/11

Project: Love's 81117058, F&BI 107293

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

Laboratory Code: 107294-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.5	12	10-171
Chloromethane	mg/kg (ppm)	2.5	<0.5	35	10-162
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	35	10-166
Bromomethane	mg/kg (ppm)	2.5	<0.5	47	10-165
Chloroethane	mg/kg (ppm)	2.5	<0.5	55	10-161
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5	40	10-168
Acetone	mg/kg (ppm)	12.5	<0.5	63	20-155
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	50	10-168
Methylene chloride	mg/kg (ppm)	2.5	<0.5	60	21-149
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.05	64	39-139
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	56	20-150
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	60	30-114
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	61	17-150
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	64	36-111
Chloroform	mg/kg (ppm)	2.5	<0.05	64	39-114
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.5	68	24-153
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	67	38-116
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	64	27-119
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.05	62	26-118
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.05	64	22-123
Benzene	mg/kg (ppm)	2.5	<0.03	63	33-113
Trichloroethene	mg/kg (ppm)	2.5	<0.03	68	36-113
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	66	40-113
Bromodichloromethane	mg/kg (ppm)	2.5	<0.05	69	43-118
Dibromomethane	mg/kg (ppm)	2.5	<0.05	69	43-113
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.5	70	34-154
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	70	43-117
Toluene	mg/kg (ppm)	2.5	<0.05	64	38-139
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	72	44-140
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.05	68	38-146
2-Hexanone	mg/kg (ppm)	12.5	<0.5	70	37-150
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.05	67	47-133
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	64	29-117
Dibromochloromethane	mg/kg (ppm)	2.5	<0.05	70	46-116
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.05	69	44-139
Chlorobenzene	mg/kg (ppm)	2.5	<0.05	66	41-114
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	66	38-120
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	72	43-120
m,p-Xylene	mg/kg (ppm)	5	<0.1	67	37-122
o-Xylene	mg/kg (ppm)	2.5	<0.05	67	39-121
Styrene	mg/kg (ppm)	2.5	<0.05	69	43-121
Isopropylbenzene	mg/kg (ppm)	2.5	<0.05	67	38-126
Bromoform	mg/kg (ppm)	2.5	<0.05	72	44-120
n-Propylbenzene	mg/kg (ppm)	2.5	<0.05	67	34-127
Bromobenzene	mg/kg (ppm)	2.5	<0.05	68	42-115
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	67	34-126
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	69	41-113
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.05	69	45-134
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	68	40-120
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	69	41-119
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.05	67	37-125
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	68	34-129
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.05	67	35-127
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.05	66	35-128
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	67	39-115
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	67	39-114
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	67	43-115
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.5	73	30-147
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	68	37-121
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.25	64	29-121
Naphthalene	mg/kg (ppm)	2.5	<0.05	69	12-168
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	67	11-172

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11

Date Received: 07/21/11

Project: Love's 81117058, F&BI 107293

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	38	38	10-142	0
Chloromethane	mg/kg (ppm)	2.5	57	56	25-121	2
Vinyl chloride	mg/kg (ppm)	2.5	61	59	29-135	3
Bromomethane	mg/kg (ppm)	2.5	63	60	33-123	5
Chloroethane	mg/kg (ppm)	2.5	66	63	10-281	5
Trichlorofluoromethane	mg/kg (ppm)	2.5	65	56	13-151	15
Acetone	mg/kg (ppm)	12.5	74	72	10-151	3
1,1-Dichloroethene	mg/kg (ppm)	2.5	68	66	22-151	3
Methylene chloride	mg/kg (ppm)	2.5	68	71	42-144	4
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	85	80	62-124	6
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	77	75	60-125	3
1,1-Dichloroethane	mg/kg (ppm)	2.5	86	82	66-123	5
2,2-Dichloropropane	mg/kg (ppm)	2.5	96	90	53-134	6
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	88	83	72-118	6
Chloroform	mg/kg (ppm)	2.5	90	85	71-123	6
2-Butanone (MEK)	mg/kg (ppm)	12.5	91	87	10-150	4
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	88	82	60-124	7
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	94	88	68-128	7
1,1-Dichloropropene	mg/kg (ppm)	2.5	90	84	71-123	7
Carbon tetrachloride	mg/kg (ppm)	2.5	96	93	64-136	3
Benzene	mg/kg (ppm)	2.5	88	83	69-122	6
Trichloroethene	mg/kg (ppm)	2.5	96	91	71-122	5
1,2-Dichloropropane	mg/kg (ppm)	2.5	91	86	71-120	6
Bromodichloromethane	mg/kg (ppm)	2.5	101	94	68-140	7
Dibromomethane	mg/kg (ppm)	2.5	94	88	72-121	7
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	93	89	10-150	4
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	101	96	74-126	5
Toluene	mg/kg (ppm)	2.5	86	84	72-122	2
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	101	98	70-131	3
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	88	86	70-122	2
2-Hexanone	mg/kg (ppm)	12.5	89	84	10-152	6
1,3-Dichloropropane	mg/kg (ppm)	2.5	88	85	72-121	3
Tetrachloroethene	mg/kg (ppm)	2.5	88	86	69-125	2
Dibromochloromethane	mg/kg (ppm)	2.5	98	94	68-130	4
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	91	88	72-121	3
Chlorobenzene	mg/kg (ppm)	2.5	85	83	69-125	2
Ethylbenzene	mg/kg (ppm)	2.5	88	85	72-130	3
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	97	94	69-133	3
m,p-Xylene	mg/kg (ppm)	5	89	86	72-131	3
o-Xylene	mg/kg (ppm)	2.5	90	85	71-129	6
Styrene	mg/kg (ppm)	2.5	91	89	73-132	2
Isopropylbenzene	mg/kg (ppm)	2.5	89	86	73-134	3
Bromoform	mg/kg (ppm)	2.5	104	98	68-129	6
n-Propylbenzene	mg/kg (ppm)	2.5	89	86	72-136	3
Bromobenzene	mg/kg (ppm)	2.5	91	88	73-125	3
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	90	85	72-132	6
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	92	88	67-116	4
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	90	85	67-123	6
2-Chlorotoluene	mg/kg (ppm)	2.5	91	87	72-130	4
4-Chlorotoluene	mg/kg (ppm)	2.5	90	87	73-129	3
tert-Butylbenzene	mg/kg (ppm)	2.5	89	86	71-130	3
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	89	87	70-132	2
sec-Butylbenzene	mg/kg (ppm)	2.5	89	87	71-134	2
p-Isopropyltoluene	mg/kg (ppm)	2.5	90	87	71-135	3
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	89	85	70-124	5
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	88	85	68-126	3
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	89	86	71-125	3
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	99	95	63-122	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	90	89	69-132	1
Hexachlorobutadiene	mg/kg (ppm)	2.5	87	88	68-121	1
Naphthalene	mg/kg (ppm)	2.5	91	90	60-125	1
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	89	90	68-121	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/29/11

Date Received: 07/21/11

Project: Love's 81117058, F&BI 107293

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	mg/kg (ppm)	0.17	89	89	61-115	0
Acenaphthylene	mg/kg (ppm)	0.17	86	86	63-110	0
Acenaphthene	mg/kg (ppm)	0.17	89	89	60-115	0
Fluorene	mg/kg (ppm)	0.17	95	95	59-116	0
Phenanthrene	mg/kg (ppm)	0.17	88	89	60-113	1
Anthracene	mg/kg (ppm)	0.17	83	83	56-103	0
Fluoranthene	mg/kg (ppm)	0.17	90	91	60-116	1
Pyrene	mg/kg (ppm)	0.17	83	83	60-116	0
Benz(a)anthracene	mg/kg (ppm)	0.17	85	85	53-109	0
Chrysene	mg/kg (ppm)	0.17	90	91	61-116	1
Benzo(b)fluoranthene	mg/kg (ppm)	0.17	96	98	57-118	2
Benzo(k)fluoranthene	mg/kg (ppm)	0.17	89	90	61-118	1
Benzo(a)pyrene	mg/kg (ppm)	0.17	88	89	53-108	1
Indeno(1,2,3-cd)pyrene	mg/kg (ppm)	0.17	97	98	46-127	1
Dibenz(a,h)anthracene	mg/kg (ppm)	0.17	99	99	55-121	0
Benzo(g,h,i)perylene	mg/kg (ppm)	0.17	96	97	56-118	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 - 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.

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.

107293

SAMPLE CHAIN OF CUSTODY

ME 07/21/11

Page # 1 of 1

US/AFI

Send Report To Chad Kean

Company Terracon

Address 21905 64th Ave. W Ste. 100

City, State, ZIP Muskegon Terracon, MI 49804

Phone # 425-771-3204 Fax # 425-771-3544

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. Love's / 81117058

PO# 81117058

REMARKS Sin metals

TURNAROUND TIME

Standard (2 Weeks)

RUSH

Rush charges authorized by _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED							Notes		
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	PAH's - 8270		RCRA-8 TCLP	
81117058-DP-01	A-F	7/21/11	8:50	Soil	6	✓	✓		✓			✓	✓		

Samples received at 6:00

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<u>[Signature]</u>	<u>LUIS SERRA</u>	<u>Terracon</u>	<u>7/21/11</u>	<u>1650</u>
<u>[Signature]</u>	<u>Jon Shimura</u>	<u>FBT</u>	<u>1</u>	<u>1</u>
Received by:				

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 Seattle, WA 98119-2029
 Ph. (206) 285-8282
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