

William W. Funderburk (SBN 176244)
Lauren A. Unga (SBN 273374)
CASTELLÓN & FUNDERBURK
811 Wilshire Boulevard
Los Angeles, California 90017
Telephone: (213) 623-7515
Facsimile: (213) 532-3984

Attorneys for Petitioner
PACIFIC STATES INDUSTRIES, INC.

**BEFORE THE CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD**

In the Matter of California Regional Water
Quality Control Board – North Coast Region.
Rescission of Cleanup and Abatement Order
No. 93-111 – Former Louisiana-Pacific
Corporation Rounds Lumber Remanufacturing
Plant, 26800 Asti Road, Cloverdale, CA

No. _____

**PETITION FOR REVIEW AND
REQUEST FOR HEARING**

**REQUEST TO HOLD PETITION
FOR REVIEW IN ABEYANCE**

(Cal. Water Code § 13320; Cal.
Code Regs., tit. 23 §§ 2050 *et seq.*)

INTRODUCTION

Petitioner PACIFIC STATES INDUSTRIES, INC. (“Petitioner”) hereby petitions the State Water Resources Control Board (the “State Board”) for review of the California Regional Water Quality Control Board, North Coast Region (the “Regional Water Board”) Rescission of Cleanup and Abatement Order 93-111, issued on January 10, 2012, Order No. R1-2012-0020. A copy of Order No. R1-2012-0020 is attached as **Exhibit A**.

-1-

PETITION AND REQUEST FOR HEARING; REQUEST TO HOLD PETITION IN ABEYANCE

This petition for review ("Petition") is brought pursuant to the provisions of Water Code section 13320 and Title 23 of the California Code of Regulations ("CCR") sections 2050 *et seq.* Pursuant to CCR section 2050.5, Petitioner hereby requests that the State Board hold this Petition in abeyance pending the outcome of further discussions and communications between Petitioner and the Regional Water Board regarding the rescission of Cleanup and Abatement Order 93-111 ("Order").

PETITION FOR REVIEW

I. NAME, ADDRESS, TELEPHONE NUMBER AND EMAIL ADDRESS OF PETITIONER

Austin Vanderhoof
Executive Vice President, CFO
Pacific States Industries, Inc.
2 West Santa Clara St.
San Jose, CA 95113
Phone: (408) 271-7905
avander@pacificstates.com

II. THE SPECIFIC ACTION OR INACTION OF THE REGIONAL WATER BOARD THAT THE STATE BOARD IS REQUESTED TO REVIEW

Petitioner seeks review of the Regional Water Board's action to rescind the Order contained in Order No. R1-2012-0020 Rescission of Cleanup and Abatement Order No. 93-111. A copy of the order dated January 10, 2012 is attached as Exhibit A. This action was taken by the Regional Water Board Executive Officer without notice, hearing, and opportunity to respond.

III. THE DATE ON WHICH THE REGIONAL BOARD ACTED OR FAILED TO ACT

The Regional Water Board Executive Officer acted on January 10, 2012, as indicated in Order No. R1-2012-0020 of that date.

IV. A FULL AND COMPLETE STATEMENT OF THE REASONS THE ACTION OR INACTION WAS INAPPROPRIATE OR IMPROPER

The Regional Water Board's rescission of the Order is inappropriate and improper because, among other things, this action: (1) was made without notice, hearing, or an opportunity to respond; (2) is arbitrary and capricious; and (2) is unsupported by technical and scientific evidence.

V. THE MANNER IN WHICH PETITIONER IS AGGRIEVED

Petitioner is an aggrieved person within the meaning of California Water Code section 13320 because the Regional Water Board's rescission of the Order contains arbitrary and capricious findings that are unsupported by the evidence in the record. Moreover, the rescission of the Order was conducted without proper due process, depriving Petitioner of notice and an opportunity to comment prior to issuance of the rescission order. The failure to properly consider whether rescission of the Order was appropriate could greatly reduce the value of Petitioner's property and ultimately impose considerable costs on Petitioner for potential penalties for the residual contamination in the future, as well as considerable costs for cleanup. Furthermore, the rescission of the order leaves Petitioner with contaminated property from no fault of its own and a potential deed restriction, while the discharger is released from its obligations under the Order with no harm from the decreased value of 26800 Asti Road, Cloverdale, California (the "Premises").

VI. THE SPECIFIC ACTION BY THE STATE OR THE REGIONAL BOARD THAT PETITIONER REQUESTS

Petitioner respectfully requests that the State Board:

- (a) Reinstate the Order, attached as **Exhibit B**

(b) Hold an evidentiary hearing on the Regional Board's challenged actions.

(c) Allow Petitioner to supplement the record with such additional evidence as is or may become available. Petitioner will identify such additional evidence once the record is prepared by the Regional Water Board.

(d) Hold this Petition in abeyance pending the outcome of further discussions and communications between Petitioner and the Regional Board regarding the rescission of the Order.

(e) Petitioner reserves the right to further request any and all actions authorized in California Water Code section 13320.

VII. A STATEMENT OF POINTS AND AUTHORITIES IN SUPPORT OF LEGAL ISSUES RAISED IN THE PETITION

The rescission of the Order was improper for procedural and substantive reasons. The following summarizes the improper actions of which Petitioners complain.

A. Substantive Issues

By rescinding the Order, the Regional Water Board is representing that the cleanup at the Premises is complete. The Order has been rescinded, yet the matter has not been closed with the Regional Water Board due to residual contamination. Thus, there seems to be no basis for rescission of the Order. The imposition of a deed restriction has been suggested in order to close the matter. The possible necessity of a deed restriction clearly demonstrates that cleanup is not complete. In fact, the Regional Water Board's inability to close the order under the current conditions suggests it should be doing precisely the opposite, enforcing the Order to ensure complete cleanup of the Premises.

Most importantly, Louisiana-Pacific Corporation has not complied with the Order. The Order requires “timely cleanup.” The Regional Water Board and Louisiana-Pacific Corporation’s reliance on natural attenuation is neither “timely,” nor is it “cleanup.” There is no reference as to how long natural attenuation will take until the groundwater will meet groundwater quality objectives. Furthermore, waiting around for a natural reduction in contaminants is not a cleanup – a cleanup requires the parties to take action to reduce the contamination on the Premises to values within the groundwater quality objectives, and eliminate the threat of future contamination of groundwater.

Neither the threat to the groundwater nor the impact to the groundwater have been fully resolved. It is clear that contaminants remain on the Premises, including pentachlorophenol (“PCP”), dioxins, mineral spirits, and hydrocarbons in soil and groundwater. Aside from the current impact on the groundwater, this poses a threat to groundwater in the future. For example, the extent of dioxins on the Premises is still unknown. Despite previous discoveries of dioxins, there has been no assurance whether the groundwater levels are consistent with the water quality objectives as required by the Water Code.

Furthermore, the water quality objectives require cleanup on the entire property, not merely where it is convenient. The Regional Water Board and Louisiana-Pacific Corporation have failed to investigate whether further cleanup can and should be conducted on the Property, despite the existing structures on the property. In the Additional Site Investigation (“ASI”) Report of Findings, attached as Exhibit C, SHN Consulting Engineers & Geologists, Inc. identified, “the impacted soil is localized... underneath the paved floor of a building.” (ASI, p.8). The known contaminants in soil, in addition to adding pollutants to groundwater, also pose

a threat to health of existing workers, future construction workers, and potential future residents. A human health risk assessment is needed to assess these threats.

It was improper to rescind the Order before cleanup was completed. Rescission of the Order allows Louisiana-Pacific Corporation to leave the remaining contamination for Petitioner to cleanup at its own expense at a later date – it simply postpones the remediation and passes the costs of cleanup to Petitioner. It was inappropriate to rescind the Order without conducting a health/risk assessment, and thus, Petitioner requests that the Order be reinstated.

B. Procedural Issues

Petitioner was not provided notice or a mechanism for comment prior to the rescission of the Order. This is a clear violation of due process.

Petitioner has owned and operated the property at the Premises since it purchased the Premises from Louisiana-Pacific Corporation in 1996. In 1993, prior to Petitioner's purchase of the land, a cleanup and abatement order was issued against Louisiana-Pacific Corporation, a copy attached as **Exhibit B**. As the current owner, Petitioner has a property interest in the Premises and the cleanup conducted thereon. A deed restriction, which can only be implemented with the consent of Petitioner, has been suggested as a necessity to closure of the matter. Thus, if the rescission of the Order ultimately results in a potential restriction on the use of Petitioner's land, Petitioner should have been provided with the protections of due process – notice of the rescission and an opportunity to comment before the Executive Officer rescinded the Order. Therefore, Petitioner has requested a hearing regarding the rescission of the Order and reinstatement of the Order.

Notwithstanding Petitioner's objections to the Regional Water Board's rescission of the Order, Petitioner intends to obtain and further review the administrative record, as well as discuss the rescission of the Order with the Regional Water Board. Therefore, Petitioner requests that the State Board hold this Petition in abeyance pending further discussions with the Regional Water Board regarding the basis for the rescission. Petitioner reserves its right to submit a detailed and more inclusive statement of points and authorities if these discussions fail to resolve the issues presented in this Petition. Petitioner will submit an additional statement of points and authorities once the State Board converts this Petition to active status and the record in this matter has been prepared.

VIII. STATEMENT THAT THE PETITION HAS BEEN SENT TO THE REGIONAL BOARD AND TO THE DISCHARGER, IF NOT THE PETITIONER

A copy of this Petition has been sent to the Regional Water Board and the discharger, Louisiana-Pacific Corporation.

IX. STATEMENT THAT THE SUBSTANTIVE ISSUES OR OBJECTIONS RAISED IN THE PETITION WERE RAISED BEFORE THE REGIONAL BOARD, OR AN EXPLANATION OF WHY PETITIONER WAS NOT REQUIRED OR UNABLE TO RAISE THESE ISSUES

Petitioner was unable to raise these issues before the Regional Water Board because the rescission of the Order was issued without prior notice and an opportunity for Petitioner to comment, nor was Petitioner required to raise them. However, Petitioner is the current owner of the property located at 26800 Asti Road, Cloverdale, CA 95425. Thus, Petitioner should have been given notice and an opportunity to comment on the rescission of the Order prior to the Executive Officer's rescission of the Order, in an interest of due process.

X. REQUEST FOR PREPARATION OF THE ADMINISTRATIVE RECORD

By copy of this Petition to the Executive Officer of the Regional Board, Petitioner hereby requests the preparation of the administrative record herein.

XI. REQUEST FOR HEARING

Petitioner requests that the State Board hold a hearing in this matter.

XII. STATEMENT OF ADDITIONAL EVIDENCE

Petitioner requests that it be permitted to supplement the record before the State Board. Petitioner will advise the State Board more specifically in this regard once the record has been prepared by the Regional Board, and it knows what matters have not been included by the Regional Board.

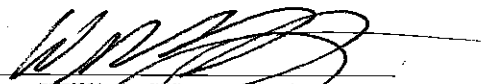
XIII. REQUEST TO HOLD PETITION IN ABEYANCE

Pursuant to Title 23, California Code of Regulations section 2050.5(d), Petitioner requests that the State Board hold this petition in abeyance for a brief period to allow the Regional Board and Petitioner to attempt to resolve the issues raised in this Petition. Petitioner will notify the State Board when it is ready to have its Petition considered.

Respectfully Submitted,

Dated: February 9, 2012

CASTELLÓN & FUNDERBURK

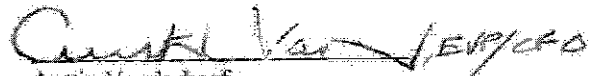
By: 
William W. Funderburk
Attorney for Petitioner
PACIFIC STATES INDUSTRIES,
INC.

VERIFICATION

I, Austin Vanderhoof, am the Executive Vice President and Chief Financial Officer of Pacific States Industries, Inc.

I have read the foregoing PETITION AND REQUEST FOR HEARING, REQUEST TO HOLD PETITION IN ABEYANCE. I am informed and believe that the facts alleged in the Petition are true to the best of my knowledge.

I declare under penalty of perjury under the law of the State of California that the foregoing is true and correct and that this verification is executed on February 9, 2012, at SAN JOSE, California.


Austin Vanderhoof

VERIFICATION

1
2 **PROOF OF SERVICE**

3 I am employed in the County of Los Angeles, State of California, I am over the age of 18
4 and not a party to the within action; my business address is 811 Wilshire Bl., Suite 1025, Los
5 Angeles, California 90017.

6 February 09, 2012 I served the foregoing document(s) described as:

7 **PETITION FOR REVIEW AND REQUEST FOR HEARING; REQUEST TO HOLD
8 PETITION FOR REVIEW IN ABAYENCE**

9 on the interested party(ies) in this action by placing ___ the original X a true copy thereof
10 enclosed in a sealed envelope(s) addressed as follows:

11 Jeannette L. Bashaw, Legal Analyst
12 Office of Chief Counsel
13 State Water Resources Control Board
P.O. Box 100
Sacramento, CA 95812-0100
Fax: (916) 341-5199
jbashaw@waterboards.ca.gov

Louisiana-Pacific Corporation
414 Union Street Suite 2000
Nashville TN 37219
U.S. Mail ONLY

- 14
- 15 X: BY MAIL: I deposited such envelopes in the mail at Los Angeles, California. The
16 envelopes were mailed with postage thereon fully prepaid.
- 17 : BY E-MAIL - I personally sent a true copy in .pdf format to the e-mail address(es) noted
18 above.
- 19 : BY FEDERAL EXPRESS: I caused such envelope to be served by Federal Express,
20 Overnight to the offices of the addressee(s) marked by an asterisk.
- 21 X: VIA FACSIMILE: I caused the above-referenced document to be served by facsimile
22 transmission to the addresses on the attached Service List.
- 23 : BY PERSONAL DELIVERY: by causing to be hand delivered, a true copy thereof to the
24 deponent at the address set forth in the accompanying subpoena, if necessary, following
25 the discussions amongst the parties.

26 [X] (STATE) I declare under penalty of perjury that the foregoing is true and correct.

27 February 09, 2012, at Los Angeles, California

28 Skarleht Samayoa



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PROOF OF SERVICE

I am employed in the County of Los Angeles, State of California, I am over the age of 18 and not a party to the within action; my business address is 811 Wilshire Bl., Suite 1025, Los Angeles, California 90017.

February 09, 2012 I served the foregoing document(s) described as:

PETITION FOR REVIEW AND REQUEST FOR HEARING; REQUEST TO HOLD PETITION FOR REVIEW IN ABAYENCE

on the interested party(ies) in this action by placing ____ the original X a true copy thereof enclosed in a sealed envelope(s) addressed as follows:

<p>Ms. Janice Goebel Regional Water Quality Control Board 5550 Skylane Blvd., Suite A Santa Rosa, CA 95403 jgoebel@waterboards.ca.gov</p>	
---	--

- X: BY MAIL: I deposited such envelopes in the mail at Los Angeles, California. The envelopes were mailed with postage thereon fully prepaid.
- : BY E-MAIL - I personally sent a true copy in .pdf format to the e-mail address(es) noted above.
- : BY FEDERAL EXPRESS: I caused such envelope to be served by Federal Express, Overnight to the offices of the addressee(s) marked by an asterisk.
- : VIA FACSIMILE: I caused the above-referenced document to be served by facsimile transmission to the addresses on the attached Service List.
- : BY PERSONAL DELIVERY: by causing to be hand delivered, a true copy thereof to the deponent at the address set forth in the accompanying subpoena, if necessary, following the discussions amongst the parties.

[X] (STATE) I declare under penalty of perjury that the foregoing is true and correct.

February 09, 2012, at Los Angeles, California

Skarleht Samayoa



EXHIBIT A

California Regional Water Quality Control Board
North Coast Region

ORDER NO. R1-2012-0020

RECISSION OF CLEANUP AND ABATEMENT
ORDER NO. 93-111

FOR

LOUISIANA-PACIFIC CORPORATION
ROUNDS LUMBER REMANUFACTURING PLANT
26800 Asti Road
Cloverdale, California

Sonoma County

1. On October 22, 1993, the Executive Officer of the North Coast Regional Water Quality Control Board issued Cleanup and Abatement Order No. 93-111 (CAO 93-111) to Louisiana-Pacific Corporation for the Rounds Remanufacturing Facility located in Cloverdale, California (Site). CAO 93-111 required the Discharger to investigate and cleanup the Site from the discharge of wood treatment chemicals and petroleum hydrocarbons to soil and groundwater.
2. Louisiana-Pacific removed over 1,000 cubic yards of soil contaminated with pentachlorophenol, and total petroleum hydrocarbons as diesel and motor oils in the early 1990s. In 1996, a soil vapor extraction system was installed and operated for four years. In addition, an interceptor trench was installed upgradient of the area to divert groundwater from the area of contamination. In 2000, the soil vapor extraction system was converted to a bioventing system.
3. Louisiana-Pacific Corporation has complied with CAO 93-111, and the Order is no longer needed.

THEREFORE, it is hereby ordered that Cleanup and Abatement Order No. 93-111 is rescinded.

Ordered by _____ Original signed by _____
Catherine Kuhlman
Executive Officer

January 10, 2012

EXHIBIT B

California Regional Water Quality Control Board
North Coast Region

CLEANUP AND ABATEMENT ORDER NO. 93-111

FOR

LOUISIANA-PACIFIC CORPORATION
ROUNDS LUMBER - REMANUFACTURING PLANT

26800 Asti Road, Cloverdale

Sonoma County

The California Regional Water Quality Control Board, North Coast Region, finds that:


1. The Louisiana-Pacific Corporation (hereinafter discharger) owns the Rounds Lumber Remanufacturing Plant located at latitude 38° 46' north, longitude 122° 59' 15" west which is between U.S. Highway 101 and the Russian River approximately three miles south of the City of Cloverdale.
2. The Regional board adopted Waste Discharge Requirements Order No. 91-35 for this facility on March 28, 1991. This Order contains the following discharge prohibitions:
 - A.3. Creation of a pollution, contamination, or nuisance, as defined by Section 13050 of the California Water Code (CWC), is prohibited. [Health and Safety Code, Section 5411]
 - A.5. The discharge of wood treatment chemicals or stain control fungicides to surface waters or to groundwaters is prohibited.
3. The discharger applied "Wood Tox" to siding until the mid 1970s. "Wood Tox" was a water repellent formulation containing approximately 5 percent tetrachlorophenol/pentachlorophenol (TCP/PCP) in a "mineral spirits" base. The application was made in the siding department which was located in a covered building. Following the cessation of the use of the water repellent formulation, the facility was reconstructed which involved the removal of the spray equipment and the dismantling or burying of the associated recycling sump.
4. The discharger hired SHN Consulting Engineers and Geologists (SHN) to conduct a site assessment for potential contamination from regulated and hazardous materials preliminary to selling the property. In March, 1992, test holes were excavated in the old siding department down gradient from the former spray tank and spray area. Samples collected at 0.5 and 1.3 feet below ground surface revealed maximum concentrations of 12 ppm TCP and 68 ppm PCP. The Department of Health Services' action level for TCP/PCP in soil is 17 ppm.

11. This enforcement action is being taken for the protection of the environment and, therefore, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.) in accordance with Section 15321, Chapter 3, Title 14 California Code of Regulations.

THEREFORE, IT IS HEREBY ORDERED that pursuant to California Water Code Section 13304, Louisiana-Pacific Corporation, Rounds Lumber Remanufacturing Plant, shall cleanup or abate the waste discharges as follows:

1. Comply with the "Cloverdale Remanufacturing Plant Soil And Groundwater Investigation Work Plan" dated September, 1993 as prepared for the discharger by SHN Consulting Engineers & Geologists and submitted to the Regional Board under the dischargers letterhead dated September 23, 1993.
2. The subject Work Plan contains a time schedule leading to a "report of findings" to be delivered to the discharger on December 12, 1993. The discharger shall submit a copy of the "report of findings" to the Regional Board by December 31, 1993.
3. Evaluate the "report of findings" and submit a plan for the cleanup and/or abatement of contamination to the Regional Board by January 31, 1994, including a schedule leading to the timely cleanup of the contaminated area(s).

Ordered by


Benjamin D. Kor
Executive Officer

October 22, 1993

(LP-CA-93)

EXHIBIT C

Additional Site Investigation Report of Findings

**Former Louisiana-Pacific Corporation
Cloverdale Remanufacturing Facility
26800 Asti Road
Cloverdale, California
Case No. 1NSO040**

Prepared for:

Louisiana-Pacific Corporation



Consulting Engineers & Geologists, Inc.

812 W. Wabash Ave.
Eureka, CA 95501-2138
707-441-8855

November 2010

095107.209



CONSULTING ENGINEERS & GEOLOGISTS, INC.

812 W. Wabash Ave. • Eureka, CA 95501-2138 • 707-441-8855 • FAX: 707-441-8877 • shninfo@shn-engr.com

Reference: 095107.209

November 15, 2010

Ms. Janice Goebel
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, CA 95403

Subject: Additional Site Investigation Report of Findings, Former Louisiana-Pacific Corporation Cloverdale Remanufacturing Facility, 26800 Asti Road, Cloverdale, California; Case No. 1NSO040

Dear Ms. Goebel:

This report of findings describes the activities and results from the subsurface investigation completed by SHN Consulting Engineers & Geologists, Inc. (SHN) at the Cloverdale Remanufacturing Facility, on behalf of Louisiana-Pacific Corporation (LP). The sampling was conducted in accordance with the April 27, 2009 work plan and November 20, 2009 work plan addendum. The work was approved by the RWQCB in an e-mail dated April 30, 2010. The subsurface investigation activities were conducted at the site on July 22 and 23, 2010. This work was conducted to address remaining gaps in the soil data to justify closure of the site. No additional soil investigation is warranted.

If you have any questions, please call me at 707-441-8855.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.

Mike Foget, P.E.
Project Manager

MKF/RMR:jlr

Enclosure: Report
copy w/encl.: April Ingram, LP Corp.
Jeff Pluim

Reference: 095107.209

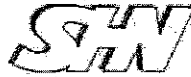
Additional Site Investigation Report of Findings

**Former Louisiana-Pacific Corporation
Cloverdale Remanufacturing Facility
26800 Asti Road
Cloverdale, California
Case No. 1NSO040**

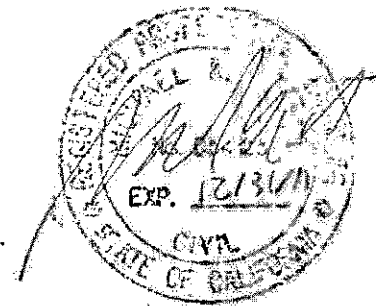
Prepared for:

Louisiana-Pacific Corporation

Prepared by:



Consulting Engineers & Geologists, Inc.
812 W. Wabash Ave.
Eureka, CA 95501-2138
707-441-8855



11/15/10

November 2010

QA/QC:MKF__

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Abbreviations and Acronyms

<	"less than" the stated method reporting limit
—	Not Analyzed
mg/Kg	milligram per Kilogram
pg/g	picograms per gram
ug/L	micrograms per Liter
AST	Aboveground Storage Tank
B-#	Boring-number
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes
CHHSL	California Human Health Screening Levels
DOT	Department of Transportation
EPA	U.S. Environmental Protection Agency
G-P	Georgia-Pacific
I.D.	Inside Diameter
LP	Louisiana-Pacific Corporation
MCL	Maximum Contaminant Level
MTBE	Methyl Tertiary-Butyl Ether
MW-#	Monitoring Well-number
P-#	Piezometer-number
PCP	Pentachlorophenol
PVC	Polyvinyl Chloride
R&K	Rounds and Kilpatrick Lumber Company
RWQCB	California Regional Water Quality Control Board, North Coast Region
SHN	SHN Consulting Engineers & Geologists, Inc.
SPT	Standard Penetration Test
SVE	Soil Vapor Extraction
SVOCs	Semi-Volatile Organic Compounds
TCP	Tetrachlorophenol
TEQ	Toxic Equivalent
TPHD	Total Petroleum Hydrocarbons as Diesel
TPHG	Total Petroleum Hydrocarbons as Gasoline
TPHMO	Total Petroleum Hydrocarbons as Motor Oil
TPHSS	Total Petroleum Hydrocarbons as Stoddard Solvent
VE-#	Vapor Extraction well-number
VOCs	Volatile Organic Compounds

1.0 Introduction

This report of findings describes the activities and results from the subsurface investigation completed by SHN Consulting Engineers & Geologists, Inc. (SHN) at the Cloverdale Remanufacturing facility, on behalf of Louisiana-Pacific Corporation (LP). The sampling was conducted in accordance with the April 27, 2009 work plan and November 20, 2009 work plan addendum. The work plan was approved by the RWQCB in an e-mail dated April 30, 2010. The subsurface investigation activities were conducted at the site on July 22 and 23, 2010.

1.1 Background

The site is located approximately 2 miles south of Cloverdale, east of Highway 101, at 26800 Asti Road, Cloverdale, Sonoma County, California, Assessor's Parcel numbers 118-010-15 and -34 (Figure 1). Comprised of 42.9 acres, the site is situated within the southwest quarter of Section 28, and the southeast quarter of Section 29, Township 11 North, Range 10 West, Mount Diablo Base and Meridian.

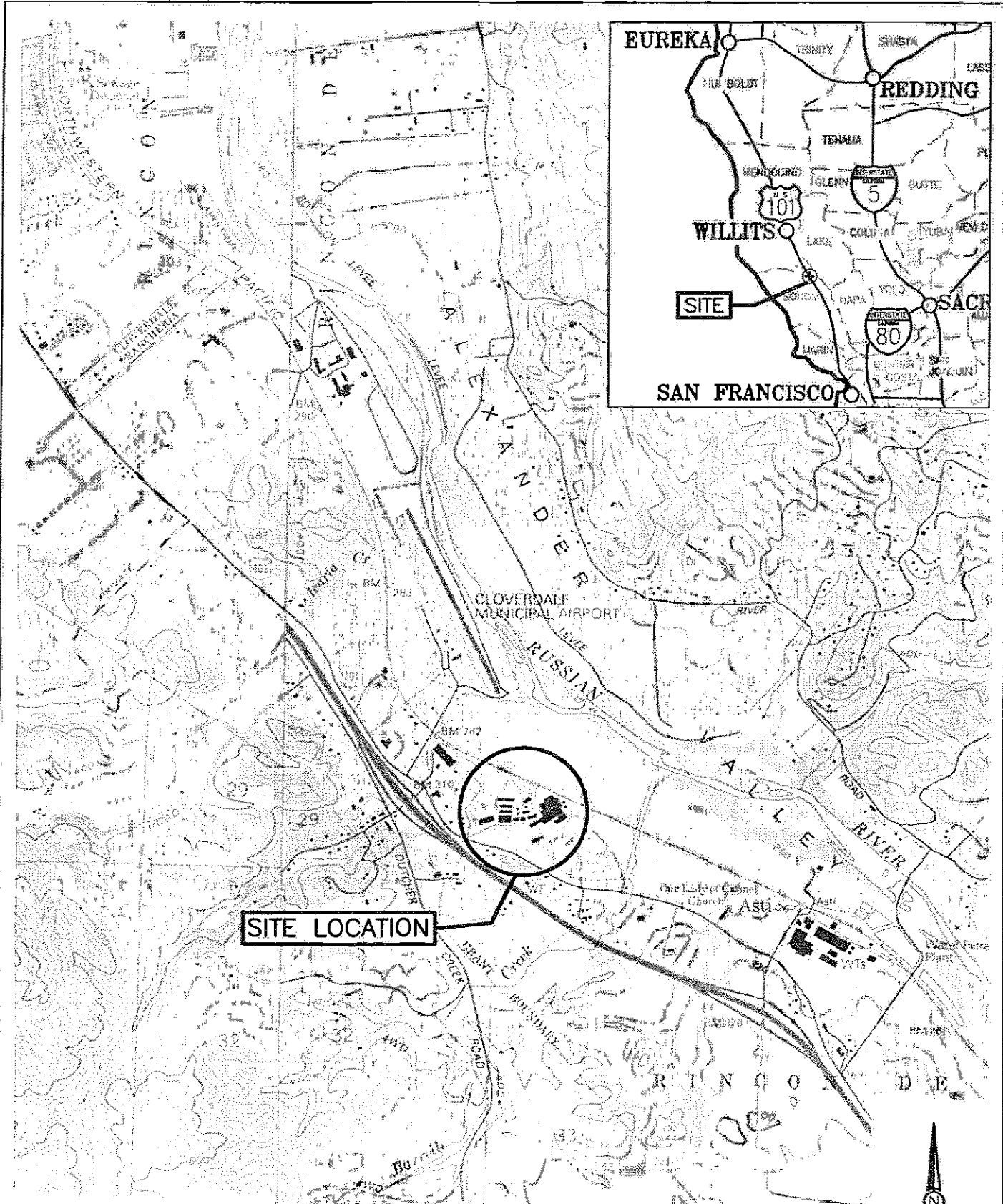
Rounds and Kilpatrick Lumber Company (R&K) originally developed this site as a lumber mill in the late 1940s. In 1948, R&K began using the site for their lumber milling operations. The majority of the development presently remaining at the site was constructed by R&K. In 1967, R&K sold the site to Georgia-Pacific (G-P). In 1972, LP acquired the site. Redwood Empire Lumber acquired the site in 1995 and is the current operator of the facility.

A site plan is included as Figure 2.

1.2 Site Remedial History


The site remedial history includes the following activities:


- September 1995: 255 cubic yards of Pentachlorophenol (PCP) and Total Petroleum Hydrocarbons as Stoddard Solvent (TPHSS) contaminated soil were excavated from the former Siding Department area (Figure 2).
- September 1995: 70 cubic yards of Total Petroleum Hydrocarbons as Gasoline (TPHG), as Diesel (TPHD), and as Motor Oil (TPHMO) contaminated soil were excavated from the maintenance area (Figure 2).
- September 1995: 250 cubic yards of PCP and TPHSS contaminated soil were excavated during the installation of the up-gradient dewatering trench (Figure 2).
- September 1996: the Soil Vapor Extraction (SVE) system was installed and began operation. During the operation, an estimated 921 pounds of contaminants were removed by the system (SHN, 2001).
- October 2000: the SVE system was converted to operate in a bioventing mode.
- February 2002: the bioventing system was taken off-line.
- Groundwater monitoring has occurred at the site since October 1993. Historic data is included in Appendix A.

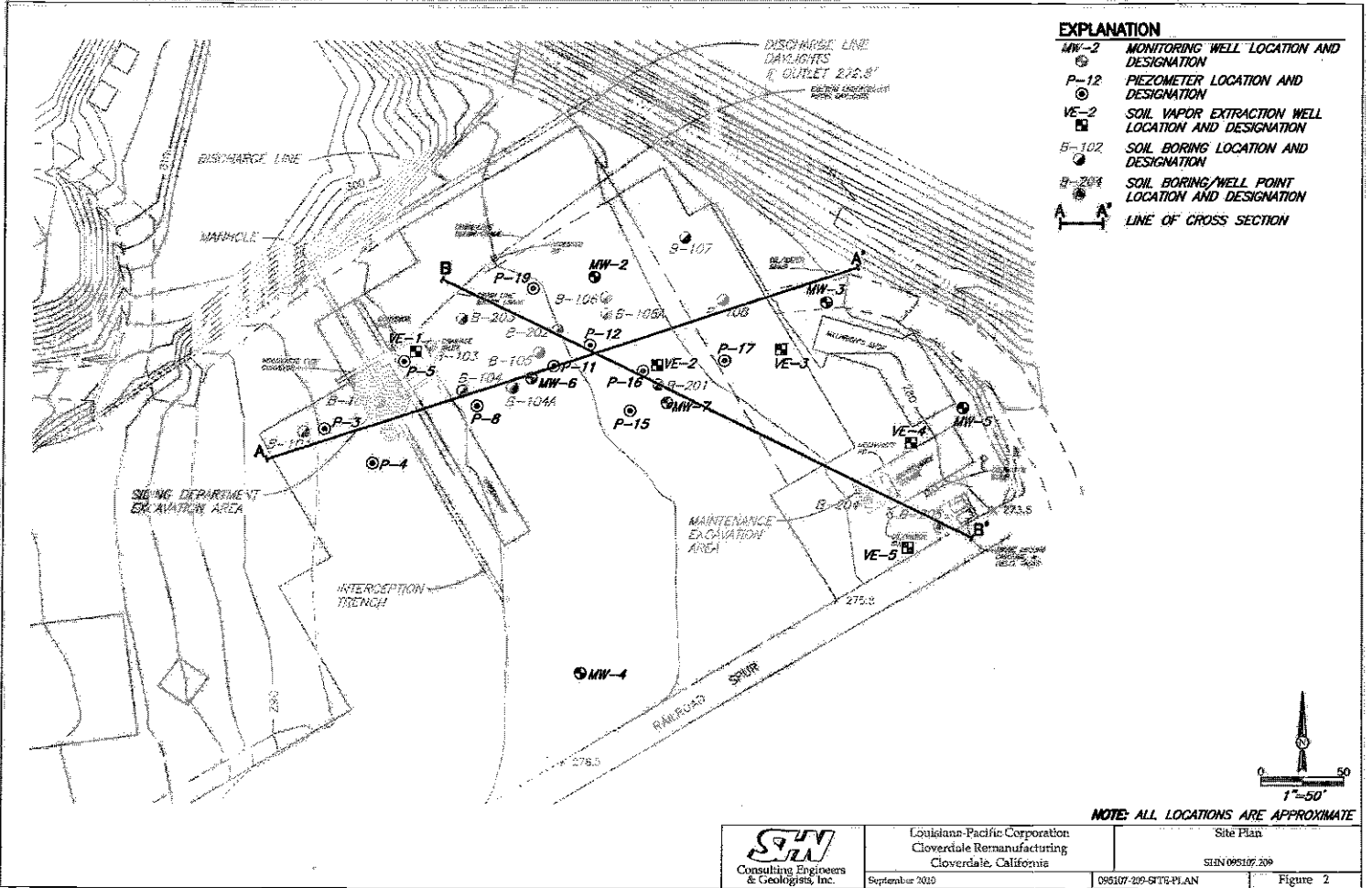


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**SOURCE: CLOVERDALE AND ASTI
 USGS 7.5 MINUTE
 QUADRANGLES**


1"=2000'±

 Consulting Engineers & Geologists, Inc.	Louisiana-Pacific Corporation Cloverdale Remanufacturing Cloverdale, California	Site Location Map SHIN 095107.209
September 2010	095107-209-SITE-LCTN	Figure 1



- EXPLANATION**
- MW-2 MONITORING WELL LOCATION AND DESIGNATION
 - P-12 PIEZOMETER LOCATION AND DESIGNATION
 - VE-2 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - B-102 SOIL BORING LOCATION AND DESIGNATION
 - B-204 SOIL BORING/WELL POINT LOCATION AND DESIGNATION
 - A-A LINE OF CROSS SECTION

NOTE: ALL LOCATIONS ARE APPROXIMATE

	Louisiana-Pacific Corporation Cloverdale Remanufacturing Cloverdale, California	Site Plan
	September 2010	SHN 09S107.209
09S107-209-SITE-PLAN		Figure 2

2.0 Objective

The objective of the site work was to fill the remaining gaps in soil data to justify site closure. This was done by obtaining additional information regarding the vertical and lateral extent of soil contamination at the former Siding Department (in the vicinity of historic soil borings B-104 and B-106) and to evaluate site soils for the presence of dioxin/furan compounds. In addition, at the request of the RWQCB, soil and groundwater samples were collected near the Maintenance Shop/Above Ground Storage Tank (AST) area, in order to determine any petroleum hydrocarbon impacts in this area.

3.0 Scope of Work

This scope of work included the following activities:

- Conducting project implementation, including permit acquisition, subcontractor coordination, Underground Service Alert Notification, and agency coordination
- Installing five soil borings and collecting soil samples to delineate the vertical and lateral extent of contaminants of concern in the vicinity of soil borings B-104 and B-106 (Siding Department area)
- Installing two borings/temporary well points in the Maintenance Building/AST area
- Submitting soil and groundwater samples for laboratory analysis
- Preparing this report of findings summarizing the results of the additional investigation, updating the geologic cross-sections, and providing recommendations for further activities to move the site towards closure

3.1 Project Implementation

SHN coordinated all activities related to the project, including obtaining all necessary drilling permits and corresponding with the County of Sonoma Department of Environmental Health. A review of existing as-built drawings of the facility and notification of Underground Service Alert was conducted prior to the commencement of field activities.

3.2 Field Program

The field program consisted of completing soil borings in the vicinity of historic soil borings B-104 and B-106. Soil samples were collected from the soil borings and submitted for laboratory analysis. Two borings/temporary well points were installed in the Maintenance Building/AST area. Field notes for activities completed during the site investigation are included in Appendix B.

3.3 Laboratory Analysis

Soil samples from the Siding Department area were analyzed for the following:

- Dioxins and furans, in general accordance with U.S. Environmental Protection Agency (EPA) Method No. 8290

- PCP and Tetrachlorophenol (TCP), in general accordance with EPA Method No. 8270D SIM
- TPHSS, in general accordance with EPA Method No. 8015M

Soil samples from the Maintenance Building/AST area were analyzed for the following:

- Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), and as Gasoline (TPHG), in general accordance with EPA Method No. 8015M
- Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX); and Methyl Tertiary-Butyl Ether (MTBE), in general accordance with EPA Method No. 8021B

The groundwater sample from the Maintenance Building/AST area was analyzed for the following:

- TPHMO, TPHD, and TPHG, in general accordance with EPA Method No. 8015M
- BTEX and MTBE, in general accordance with EPA Method No. 8021B

The dioxin and furan analyses were performed by Frontier Analytical Laboratory located in El Dorado Hills, California. All other analyses were performed by Friedman & Bruya, Inc, located in Seattle, Washington.

3.5 Equipment Decontamination Procedures

All small equipment that required on-site cleaning during site investigation activities was cleaned using the following wash system. The equipment was first washed in a water solution containing Liquinox® cleaner, followed by two distilled water rinses. All drilling equipment was cleaned prior to arriving on site, and steam-cleaned between each boring location.

3.6 Waste Handling

Soil generated during drilling activities was contained in 55-gallon Department of Transportation (DOT) approved drums and stored on site. The contents of the drums were sampled for disposal characterization. The soil generated during site investigation activities will be disposed of at an approved facility. Laboratory analytical results from the samples from the drums are included in Appendix C.

Purge and decontamination water generated during field activities were contained in 55-gallon DOT drums and stored on-site. The water will be treated by processing through granular activated carbon.

4.0 Hydrogeology

At elevations ranging between 270 and 350 feet above Mean Sea Level, the project site occupies the surface of a Quaternary fluvial terrace on the west side of the Russian River, which flows south through the Alexander Valley. The Alexander Valley is bound on the east by the Maacama fault zone, and to the west by the Healdsburg fault. Alexander Valley was created by extensional down-dropping and en-echelon faulting between the northwest trending, right lateral, strike-slip faults related to the migration of the Mendocino Triple Junction.

Geologic deposits underlying the site consist of two principle units: The Late Jurassic to Late Cretaceous age Central Belt of the Franciscan Complex, and the Quaternary age alluvium, colluvium, and terrace deposits (Wagner and Bortugno, 1982).

In the project area, the Franciscan is composed of two principal rock types. The most common rock is interbedded sedimentary rock consisting of arkose sandstone, siltstone, and claystone. The subordinate rock type of the Franciscan is serpentinite and intrusive sills of diabase gabbro, serpentized peridotite, in addition to glaucophane and related schists. These sills generally occur in concordant sheet or tabular dikes within the sandstone and siltstone. Franciscan bedrock outcrops are present at the southeast and midsections of the property. They are highly fractured, folded, and sheared. Colluvium derived from the Franciscan bedrock mantles the natural slopes and low-lying areas at the project site.

A broad, flat, alluvial plain borders the site to the north-northwest. Quaternary alluvium composed of well-graded silty sand, gravel, sand and silt was encountered northwest of the Siding Department area. These sediments are typical of overbank stream deposits and can be associated with past periodic flooding of the Russian River.

Groundwater at the site generally flows toward the east-northeast with a gradient of approximately 0.003 feet per foot. Depth-to-groundwater varies significantly across the site and historically has ranged from approximately 6 to 28 feet Below Ground Surface (BGS). Hydrogeologic cross sections are included on Figures 3 and 4.

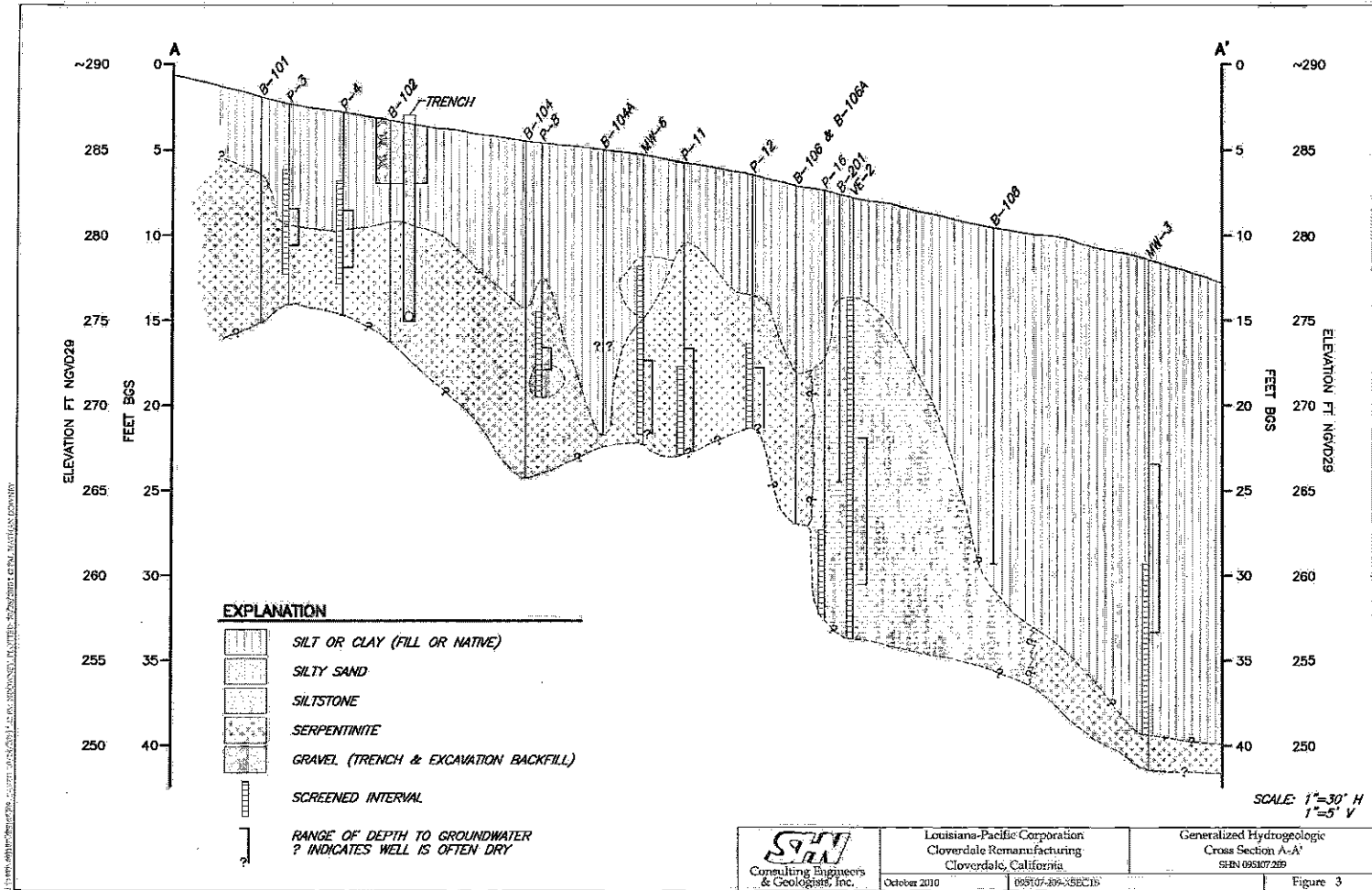
5.0 Results of the Investigation-Maintenance Building/AST Area

On July 22, 2010, SHN supervised Clearheart Drilling in the installation of two soil borings/temporary well points (B-204 and B-205) for the collection of soil and groundwater samples in the Maintenance Building/AST area. Soil borings were installed using a truck-mounted Deep Rock drill rig. Borings were extended to a maximum of 40 feet BGS. Soil samples were collected from selected depths using a California Modified Split Spoon or Standard Penetration Test (SPT) sampler. Following retrieval of the sampler, the brass sample tubes were removed from the sampler, and the selected sample aliquot was sealed on both ends with Teflon® tape and plastic caps. Soils in the remaining sample tubes were used for soil descriptions. Soils were described in general accordance with the Unified Soil Classification System.

Soil samples were labeled with the project name, project number, sample number, sample depth, and sample time and date. All samples were placed in Ziploc® bags and stored in an iced cooler. Soil samples were analyzed for constituents described in the Laboratory Analysis section below. Sample handling, transport, and delivery to the laboratory were documented using chain-of-custody procedures.

After augering to the desired depth, temporary well points were installed in each borehole. The well points were constructed using 2-inch Inside Diameter (I.D.) Polyvinyl Chloride (PVC) casing and 0.010-slotted well screen.

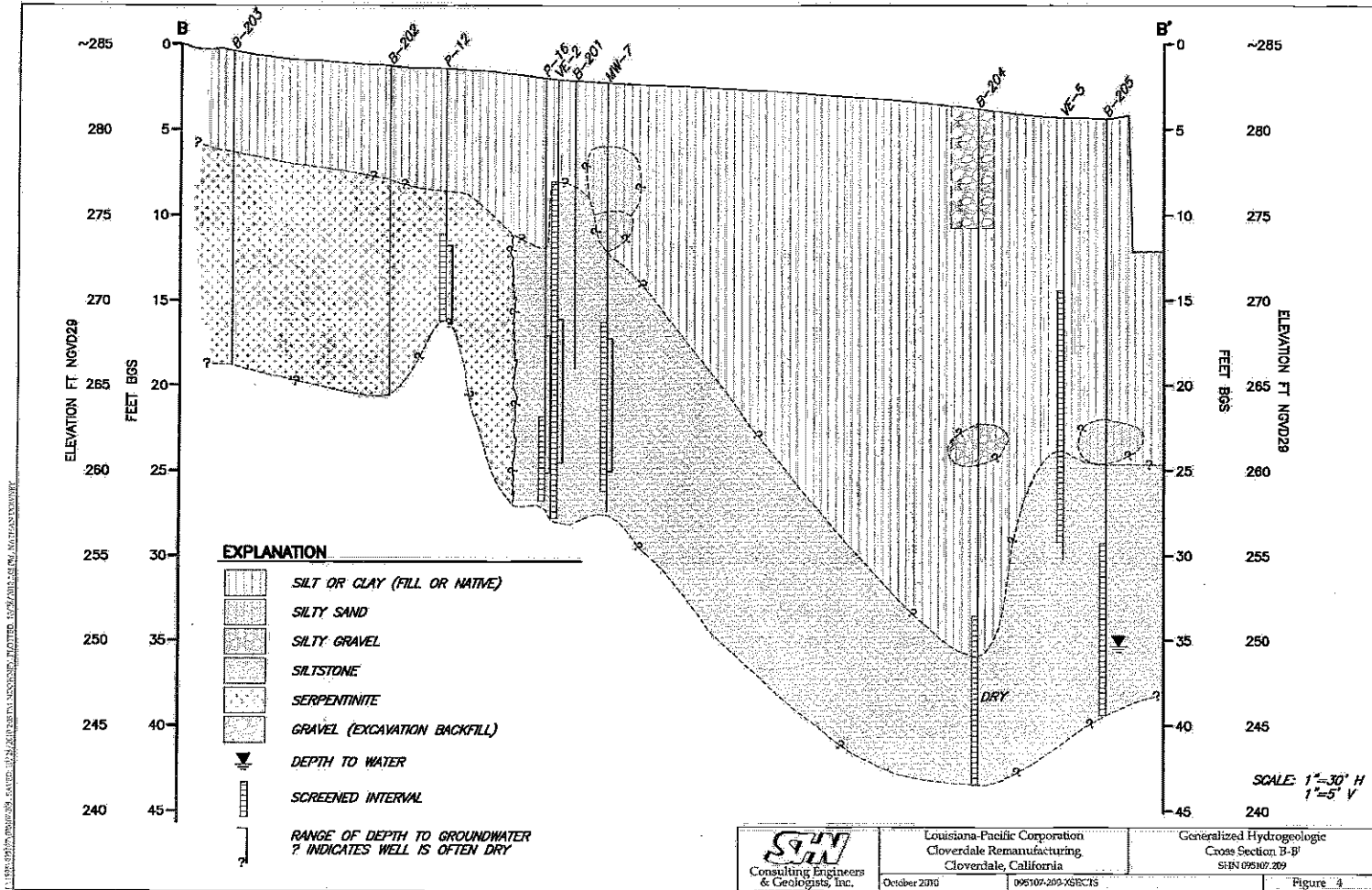
Temporary well point B-204 was screened from 30-40 feet BGS in silts and weathered sandstone or siltstone. The well point was dry after sitting for approximately 15 hours. No indications of



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Cloverdale, California
October 2010 089107-299-25EC18

Generalized Hydrogeologic
Cross Section A-A'
SEN 089107-299



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Cloverdale Remanufacturing
Cloverdale, California
October 2010 095107-209-25REV.13

Generalized Hydrogeologic
Cross Section B-B'
SHN 095107-209
Figure 4

groundwater were observed in the soil cuttings or soil samples collected. Temporary well point B-205 was screened from 25 to 35 feet BGS in mudstone, and water was evident on the soil sampler when retrieved from 30 feet BGS.

Temporary well point B-205 was purged and sampled using a new disposable bailer. The groundwater sample was decanted directly into laboratory supplied sample containers, labeled with the project name, project number, sample number, sample time, and date. Sample containers were placed into an ice-filled cooler, and transported under chain-of-custody documentation to a State of California-certified analytical laboratory for chemical analysis of constituents described in the Laboratory Analysis section.

All bore holes were backfilled with cement grout and capped to match the existing surface cover. Field notes and soil boring logs are included in Appendix B.

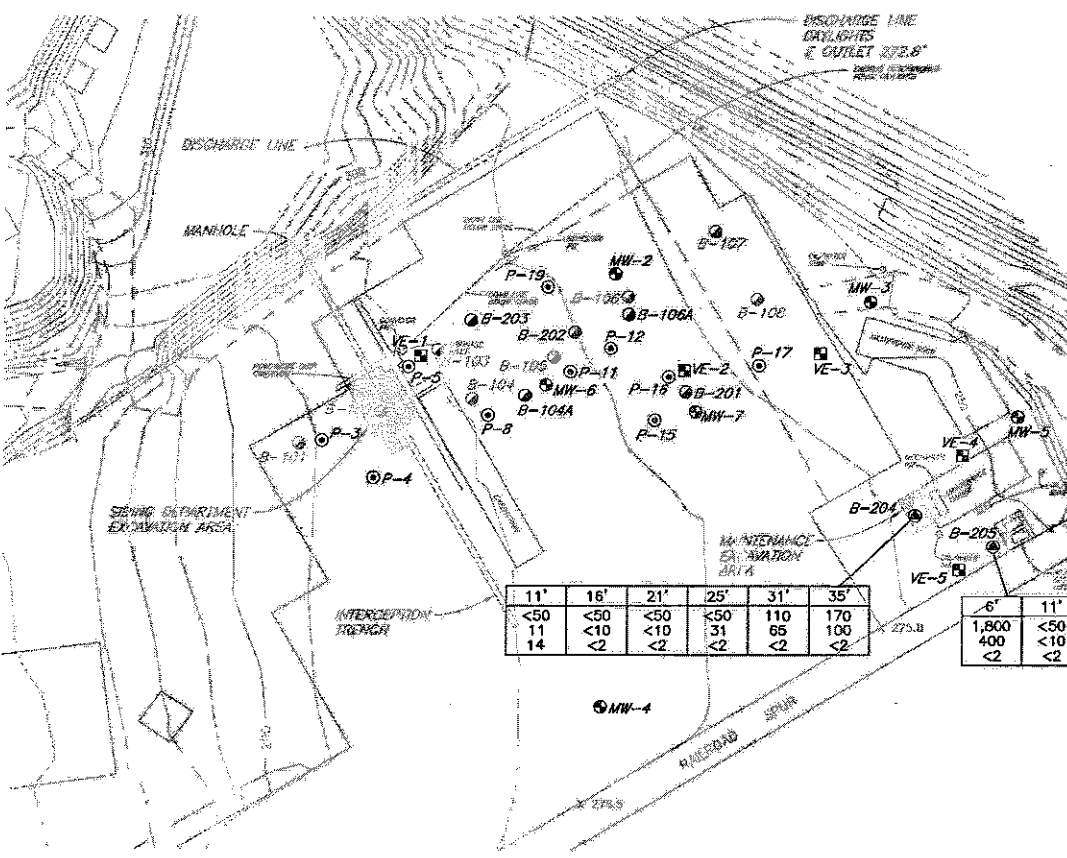
5.1 Soil Analytical Results

Table 1 presents the analytical results for the soil samples collected from the maintenance building/AST area during the July 2010 site investigation. A summary of select analytical results for the maintenance building/AST area are presented in Figure 5. Laboratory analytical reports are included in Appendix C.

Table 1
Maintenance Building/AST Area-Soil Analytical Results, July 22, 2010
Former Cloverdale Remanufacturing Facility, Cloverdale, California
(in mg/Kg)¹

Sample Location & Depth (feet)	TPHMO ²	TPHD ²	TPHG ²	Benzene ³	Toluene ³	Ethyl-benzene ³	Total Xylenes ³	MTBE ³
B-204@11'	<50 ⁴	11 ⁵	14	<0.2	<0.2	0.79	2.1	<0.1
B-204@16'	<50	<10	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-204@21'	<50	<10	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-204@25'	<50	31	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-204@31'	110 ⁵	65	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-204@35'	170 ⁵	100	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@6'	1,800	400	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@11'	<50	<10	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@16'	<50	<10	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@21'	<50	<10	<2	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@25'	<50	47	<2	<0.2	<0.2	<0.2	<0.06	<0.1

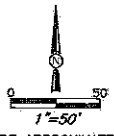
1. mg/Kg: milligrams per Kilogram
2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), and as Gasoline (TPHG) analyzed in general accordance with EPA Method No. 8015M
3. Benzene, Toluene, Ethylbenzene, Total Xylenes, and Methyl Tertiary-Butyl Ether (MTBE), analyzed in general accordance with EPA Method No. 8021B
4. <: "less than" the stated method reporting limit
5. The sample chromatographic pattern does not resemble the fuel standard used for quantification.



- EXPLANATION**
- MW-2 MONITORING WELL LOCATION AND DESIGNATION
 - P-12 PIEZOMETER LOCATION AND DESIGNATION
 - VE-2 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
 - B-102 SOIL BORING LOCATION AND DESIGNATION
 - B-204 SOIL BORING/WELL POINT LOCATION AND DESIGNATION
- | | |
|-----|--------------------------|
| 11' | SAMPLE DEPTH (FEET BGS) |
| <50 | TPHMO } RESULTS IN mg/kg |
| 11 | TPHD } |
| 14 | TPHG } |
- | | |
|-----|-------------------------|
| <50 | TPHMO } RESULTS IN ug/L |
| 25 | TPHD } |
| <50 | TPHG } |

11'	16'	21'	25'	31'	35'
<50	<50	<50	<50	110	170
11	<10	<10	31	65	100
14	<2	<2	<2	<2	<2

6'	11'	16'	21'	25'	<50
1,800	<50	<50	<50	<50	25
400	<10	<10	<10	47	<50
<2	<2	<2	<2	<2	



NOTE: ALL LOCATIONS ARE APPROXIMATE

 Consulting Engineers & Geologists, Inc.	Louisiana-Pacific Corporation Cloverdale Remanufacturing Cloverdale, California	Summary of Analytical Results Maintenance Building/ AST Area, July 2010 SHN 09107229
	September 2010	095-07-209-SUM-AR-MAINT-JULY-10

5.2 Groundwater Analytical Results

Table 2 presents the analytical results for the groundwater sample collected from B-205 during the July 2010 site investigation. Laboratory analytical reports are included in Appendix C.

Table 2 Maintenance Building/AST Area-Groundwater Analytical Results, July 22, 2010 Former Cloverdale Remanufacturing Facility, Cloverdale, California (in ug/L)¹								
Sample Location	TPHMO ²	TPHD ²	TPHG ²	Benzene ³	Toluene ³	Ethylbenzene ³	Total Xylenes ³	MTBE ³
B-205	<50 ⁴	25 ⁵	<50	<0.5	<0.5	<0.5	<1.5	<5
1. ug/L; micrograms per Liter 2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), and as Gasoline (TPHG) analyzed in general accordance with EPA Method No. 8015M 3. Benzene, Toluene, Ethylbenzene, Total Xylenes, and Methyl Tertiary-Butyl Ether (MTBE), analyzed in general accordance with EPA Method No. 8021B 4. <: "less than" the stated method reporting limit 5. The sample chromatographic pattern does not resemble the fuel standard used for quantitation.								

5.3 Discussion and Recommendations

Low concentrations of petroleum hydrocarbons (TPHMO and TPHD) were detected in four of the six soil samples collected from B-204. Groundwater was not present in the temporary well point in B-204.

Low concentrations of petroleum hydrocarbons (TPHMO and TPHD) were detected in two of the five soil samples collected from B-205. Depth to groundwater was measured at approximately 30 feet BGS. TPHD was detected in the groundwater sample collected from B-205 at a concentration of 25 micrograms per Liter (ug/L), which is below the water quality objective of 100 ug/L (Marshack, 2004).

Based on the low concentrations of petroleum hydrocarbons in soils, the lack of significant groundwater impacts in sample B-205, and the historic groundwater analytical data from wells VE-4 and MW-5, it appears that soil impacts are limited, and groundwater has not been impacted in this area of the site. SHN is recommending no further action for the Maintenance Building/AST area.

6.0 Results of the Investigation-Siding Department Area

On July 23, 2010, SHN supervised Clearheart Drilling in the installation of five soil borings in the Siding Department area. Soil borings were installed using a truck-mounted Deep Rock drill rig. Borings were extended to a maximum of 25 feet BGS. Soil samples were collected from selected depths using a California Modified Split Spoon or SPT sampler. Following retrieval of the sampler, the brass sample tubes were removed from the sampler, and the selected sample aliquot was sealed on both ends with Teflon® tape and plastic caps. Soils in the remaining sample tubes were used for soil descriptions. Soils were described in general accordance with the Unified Soil Classification

System. At a few locations, the sampler could not fully penetrate the subsurface materials, and all soils removed were needed for laboratory analysis. In order to minimize disturbance of the laboratory samples, the soils could not be fully described.

Soil samples were labeled with the project name, project number, sample number, sample depth, and sample time and date. All samples were placed in Ziploc® bags and stored in an iced cooler. Soil samples were analyzed for constituents described in Laboratory Analysis section. Sample handling, transport, and delivery to the laboratory were documented using chain-of-custody procedures.

All bore holes were backfilled with bentonite chips capped to match the existing surface cover. Field notes and soil boring logs are included in Appendix B.

6.1 Soil Analytical Results

Tables 3 and 4 present the analytical results for the soil samples collected in the Siding Department area during the July 2010 site investigation. Laboratory analytical reports are included in Appendix C.

Sample Location & Depth (feet)	PCP ²	2,3,4,6-TCP ²	2,3,4,5 + 2,3,5,6-TCP	TPHSS ³
B-104A@16.5'	<0.1 ⁴	<0.1	<0.2	<10
B-106A@19'	0.26	<0.1	<0.2	39
B-106A@25'	<0.1	<0.1	<0.2	<10
B-201@12'	<0.1	<0.1	<0.2	<10
B-201@17'	<0.1	<0.1	<0.2	<10
B-202@13.5'	0.91 ⁵	<1	<2	350
B-202@18.5'	<0.1	<0.1	<0.2	<10
B-203@12.5'	<0.1	<0.1	<0.2	<10
B-203@17'	<0.1	<0.1	<0.2	<10

1. mg/Kg: milligrams per Kilogram
2. Pentachlorophenol (PCP) and Tetrachlorophenol (TCP), analyzed in general accordance with EPA Method No. 8270D SIM
3. Total Petroleum Hydrocarbons as Stoddard Solvent (TPHSS) analyzed in general accordance with EPA Method No. 8015M
4. <: "less than" the stated method reporting limit
5. The result is below normal reporting limits. The value reported is an estimate.

Table 4 Siding Department Area-Soil Analytical Results-Dioxin and Furan TEQ¹, July 23, 2010 Former Cloverdale Remanufacturing Facility, Cloverdale, California (in pg/g)²	
Sample Location & Depth (feet)	TEQ
B-104A@17'	7.10
B-106A@19.5'	149
B-106A@25'	3.35
B-201@12'	0
B-201@17'	48.4
B-202@14'	557
B-202@19'	5.49
B-203@13'	0
B-203@17.5'	0
EPA Region 9- Regional Screening Level for Industrial Soil-May 2010	18.0
1. TEQ: Toxic Equivalent, World Health Organization 1998 2. pg/g: picograms per gram	

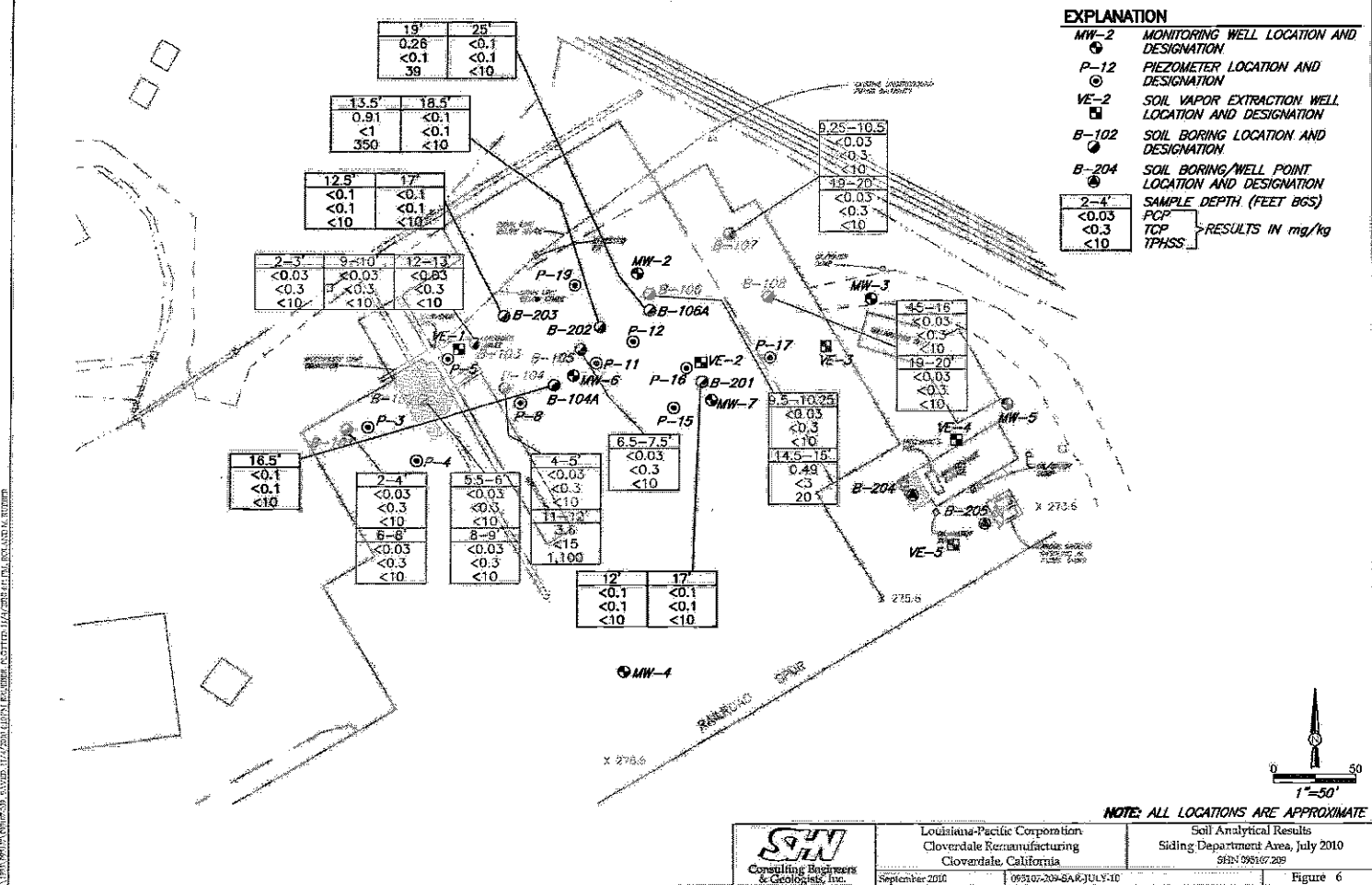
Soil analytical results for the Siding Department area are presented on Figures 6 and 7. Dioxin and furan results were reported as Toxic Equivalents (TEQs). A complete summary of the dioxin and furan analytical results is included in Appendix A.

6.2 Discussion and Recommendations

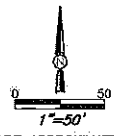
Based on the results of this and previous investigations, the extent of soil impacted with PCP, TCP, and TPHSS has been defined vertically and horizontally in the Siding Department area. Dioxin/furans have been defined to below EPA Regional Screening Levels (RSLs) both vertically and horizontally (except at boring B-201). Drilling conditions were extremely difficult at boring B-201, and the boring could not be advanced below 17 feet BGS. Groundwater samples from well VE-2 (near B-201) were analyzed for dioxins/furans in May 2007, and results from this sample were below the California Department of Health Services Maximum Contaminant Level (MCL) (Marshack, 2003) of 30 picograms per Liter (pg/L).

A groundwater monitoring event took place in October 2010, although several wells were dry. A groundwater monitoring report for this event will be submitted separately. The next groundwater monitoring event will be performed in January 2011. Groundwater samples will be collected from wells MW-2, -3, -6, extraction well VE-2, and piezometers P-5, -11, -12, and -17. Following the January 2011 groundwater monitoring event, a final detailed summary of groundwater conditions will be prepared with estimates of the timeframe to reach water quality objectives.

This report concludes our soil investigation portion of the data gap analysis. Soil impacts have been adequately defined. The impacted soil is localized at depth underneath the paved floor of a building. PCP, TCP, TPHSS, and dioxin/furan compounds are not listed in the California Human Health Screening Levels (CHHSLs) for indoor air and soil gas, therefore vapor intrusion issues are

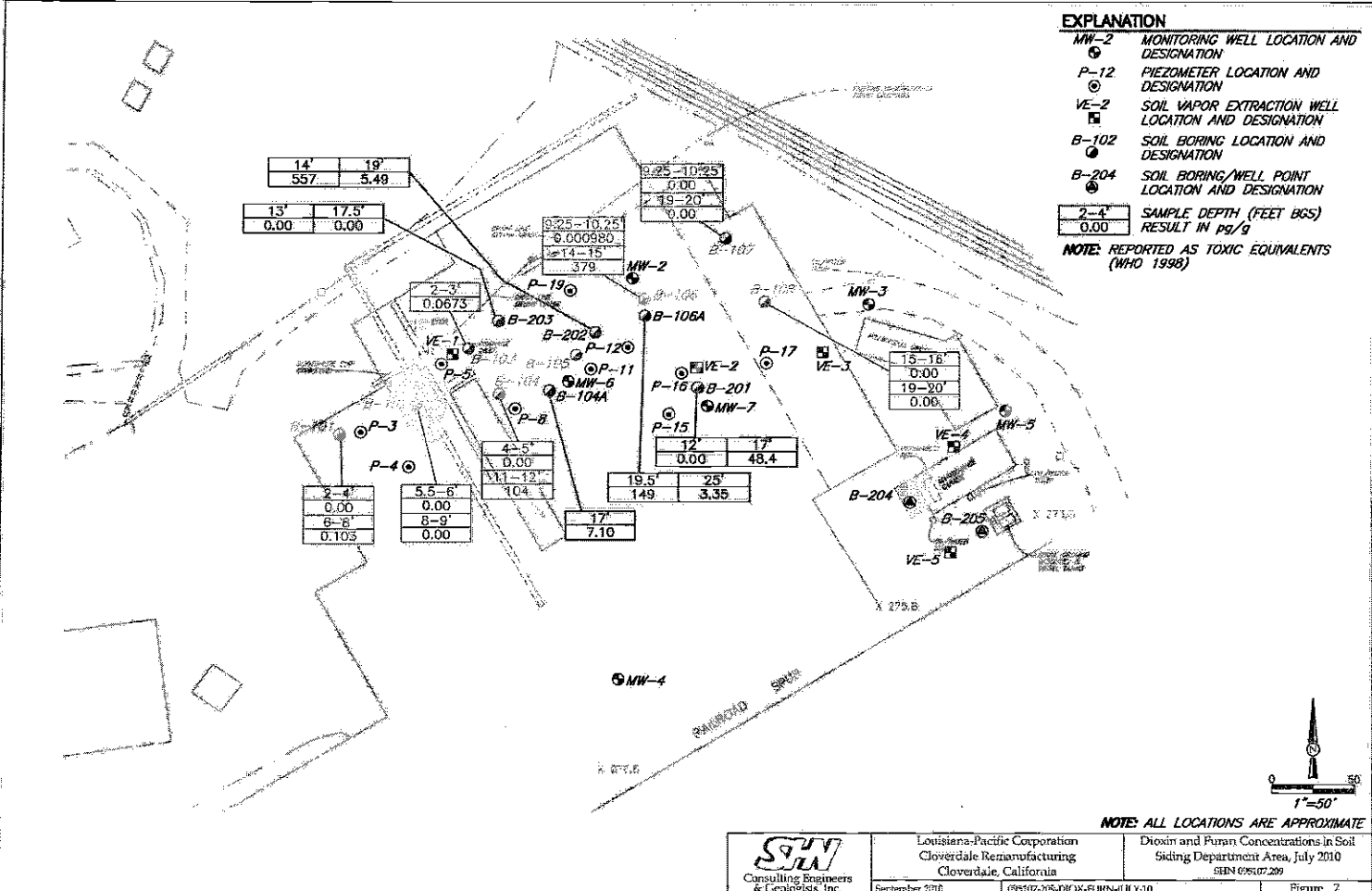


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NOTE: ALL LOCATIONS ARE APPROXIMATE

 Consulting Engineers & Geologists, Inc.	Louisiana-Pacific Corporation Cloverdale Remanufacturing Cloverdale, California	Soil Analytical Results Siding Department Area, July 2010 SIN 09107-209
	September 2010	09107-209-BA (JULY-10)

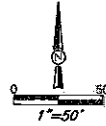


EXPLANATION

- MW-2 MONITORING WELL LOCATION AND DESIGNATION
- P-12 PIEZOMETER LOCATION AND DESIGNATION
- VE-2 SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- B-102 SOIL BORING LOCATION AND DESIGNATION
- B-204 SOIL BORING/WELL POINT LOCATION AND DESIGNATION

2-4'	SAMPLE DEPTH (FEET BGS)
0.00	RESULT IN PS/G

NOTE: REPORTED AS TOXIC EQUIVALENTS (WHO 1998)



NOTE: ALL LOCATIONS ARE APPROXIMATE

	Louisiana-Pacific Corporation Cloverdale Remanufacturing Cloverdale, California	Dioxin and Furan Concentrations in Soil Siding Department Area, July 2010 SHN 098107.209
	September 2010	098107.209-DIOX-FURN-JULY-10

Figure 7

not a concern (California EPA, 2005). Concentrations of PCP in soil are below the CHHSL for commercial/industrial land use (13 mg/kg). While a few dioxin/furan TEQs in soil are above the EPA Regional Screening Level, the contaminant has not impacted water quality above the MCL. No further investigation of soil impacts is warranted. A no further action request will be prepared for the siding department area following the final groundwater monitoring event in January 2011.

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Appendix A

Historic Data

Table A-1 Monitoring Well Screen Details Former Cloverdale Remanufacturing Facility, Cloverdale, California			
Well ID	Top of Casing Elevation (feet NGVD29) ¹	Total Depth (feet below grade)	Screened Interval (feet below grade)
MW-2	284.21	26	10.5-25.5
MW-3	278.61	28.5	18-28
MW-4	285.15	29.5	14.5-29.5
MW-5	279.51	30.5	10-30
MW-6	283.57	17	6.5-16.5
MW-7	284.31	24.5	14-24
P-3	287.42	10	4-10
P-4	286.94	10	4-10
P-5	286.16	15	10-15
P-11	283.93	17	12-17
P-12	283.37	15	10-15
P-15	283.31	25	20-25
P-16	282.61	25	20-25
P-17	281.27	25	20-25
P-19	283.79	25	20-25
VE-1	284.89	26	6-26
VE-2	281.50	26	6-26
VE-3	279.70	30	10-30
VE-4	279.63	20	5-20
VE-5	281.05	25	10-25

1. NGVD29: National Geodetic Vertical Datum 1929

Table A-2
Groundwater Elevations
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/24/1995	Elevation 10/24/1995	Depth-to-Water 11/16/1995	Elevation 11/16/1995	Depth-to-Water 12/22/1995	Elevation 12/22/1995	Depth-to-Water 12/27/1995	Elevation 12/27/1995
MW-2	284.21	20.04	264.17	19.56	264.65	NM	NM	13.80	270.41
MW-3	278.61	19.60	259.01	19.65	258.96	NM	NM	16.64	261.97
MW-4	285.15	9.83	275.32	9.84	275.31	NM	NM	9.48	275.67
MW-5	279.51	DRY	DRY	29.11	250.40	NM	NM	26.16	253.35
MW-6	283.57	DRY	DRY	DRY	DRY	NM	NM	NM	NM
MW-7	284.31	DRY	DRY	21.93	262.38	NM	NM	18.76	265.55
P-3	287.42	8.21	279.21	8.37	279.05	7.30	280.12	7.61	279.81
P-4	286.94	DRY	DRY	8.91	278.03	7.74	279.20	8.05	278.89
P-5	286.16	12.08	274.08	12.22	273.94	10.34	275.82	11.20	274.96
P-8	285.42	DRY	DRY	DRY	DRY	12.58	272.84	13.35	272.07
P-11	283.93	15.49	268.44	16.04	267.89	11.76	272.17	12.56	271.37
P-12	283.37	DRY	DRY	DRY	DRY	NM	NM	11.95	271.42
P-15	283.31	22.11	261.2	22.25	261.06	NM	NM	18.97	264.34
P-16	282.61	21.96	260.65	22.09	260.52	NM	NM	18.78	263.83
P-17	281.27	DRY	DRY	21.23	260.04	NM	NM	18.08	263.19
P-19	283.79	17.78	266.01	17.36	266.43	NM	NM	11.16	272.63
Monitoring Point	Measuring Point Elevation	Depth-to-Water 1/18/1996	Elevation 1/18/1996	Depth-to-Water 2/21/1996	Elevation 2/21/1996	Depth-to-Water 4/2/1996	Elevation 4/2/1996	Depth-to-Water 5/16/1996	Elevation 5/16/1996
MW-2	284.21	14.55	269.66	9.19	275.02	16.74	267.47	17.81	266.4
MW-3	278.61	15.58	263.03	12.63	265.98	15.81	262.80	16.95	261.66
MW-4	285.15	9.47	275.68	9.12	276.03	9.71	275.44	9.72	275.43
MW-5	279.51	25.03	254.48	19.69	259.82	25.5	254.01	27.14	252.37
MW-6	283.57	NM	NM	NM	NM	14.96	268.61	DRY	DRY
MW-7	284.31	18.64	265.67	15.88	268.43	18.62	265.69	DRY	DRY
P-3	287.42	7.44	279.98	6.31	281.11	7.28	280.14	7.44	279.98
P-4	286.94	7.86	279.08	6.46	280.48	7.50	279.44	7.68	279.26
P-5	286.16	11.57	274.59	8.23	277.93	11.92	274.24	11.39	274.77
P-8	285.42	DRY	DRY	12.07	273.35	DRY	DRY	DRY	DRY
P-11	283.93	13.48	270.45	10.84	273.09	14.72	269.21	DRY	DRY
P-12	283.37	12.95	270.42	10.27	273.10	14.15	269.22	DRY	DRY
P-15	283.31	18.95	264.36	16.10	267.21	18.96	264.35	DRY	DRY
P-16	282.61	18.63	263.98	15.89	266.72	18.71	263.90	20.34	262.27
P-17	281.27	17.74	263.53	14.80	266.47	17.66	263.61	19.24	262.03
P-19	283.79	12.22	271.57	7.16	276.63	15.98	267.81	16.89	266.90
Monitoring Point	Measuring Point Elevation	Depth-to-Water 6/12/1996	Elevation 6/12/1996	Depth-to-Water 7/30/1996	Elevation 7/30/1996	Depth-to-Water 8/15/1996	Elevation 8/15/1996	Depth-to-Water 9/4/1996	Elevation 9/4/1996
MW-2	284.21	18.64	265.57	20.30	263.91	19.24	264.97	19.34	264.87
MW-3	278.61	18.28	260.33	20.15	258.46	20.30	258.31	20.59	258.02
MW-4	285.15	9.82	275.33	10.03	275.12	10.00	275.15	9.99	275.16
MW-5	279.51	28.12	251.39	29.17	250.34	29.19	250.32	29.29	250.22
MW-6	283.57	15.14	268.43	DRY	DRY	15.14	268.43	15.15	268.42
MW-7	284.31	20.61	263.70	22.37	261.94	22.64	261.67	22.81	261.5
P-3	287.42	7.52	279.90	8.13	279.29	8.17	279.25	8.26	279.16
P-4	286.94	7.77	279.17	8.57	278.37	8.65	278.29	8.74	278.2
P-5	286.16	12.36	273.80	12.45	273.71	12.52	273.64	12.40	273.76
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	16.29	267.64	16.91	267.02	17.16	266.77	17.33	266.6
P-12	283.37	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-15	283.31	21.08	262.23	22.68	260.63	22.00	261.31	23.22	260.09
P-16	282.61	20.78	261.83	22.54	260.07	22.95	259.66	23.13	259.48
P-17	281.27	19.88	261.39	21.63	259.64	21.85	259.42	22.10	259.17
P-19	283.79	17.11	266.68	18.24	265.55	16.98	266.81	16.89	266.90

Table A-2
Groundwater Elevations
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/8/1996	Elevation 10/8/1996	Depth-to-Water 11/19/1996	Elevation 11/19/1996	Depth-to-Water 12/19/1996	Elevation 12/19/1996	Depth-to-Water 1/29/1997	Elevation 1/29/1997
MW-2	284.21	14.79	269.42	16.99	267.22	16.21	268	13.88	270.33
MW-3	278.61	19.80	258.81	17.63	260.98	16.30	262.31	13.20	265.41
MW-4	285.15	9.98	275.17	9.51	275.64	9.35	275.80	9.49	275.66
MW-5	279.51	29.18	250.33	28.78	250.73	24.52	254.99	19.95	259.56
MW-6	283.57	NM	NM	NM	NM	NM	NM	NM	NM
MW-7	284.31	22.29	262.02	21.55	262.76	18.8	265.51	16.52	267.79
P-3	287.42	8.16	279.26	7.54	279.88	7.24	280.18	7.42	280.00
P-4	286.94	8.61	278.33	8.09	278.85	7.70	279.24	7.33	279.61
P-5	286.16	11.84	274.32	11.74	274.42	12.23	273.93	11.96	274.2
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	14.90	269.03	16.28	267.65	14.96	268.97	13.69	270.24
P-12	283.37	DRY	DRY	DRY	DRY	DRY	DRY	13.25	270.12
P-15	283.31	22.49	260.82	21.58	261.73	19.21	264.10	16.91	266.40
P-16	282.61	21.69	260.92	20.54	262.07	18.76	263.85	16.53	266.08
P-17	281.27	21.28	259.99	19.76	261.51	17.75	263.52	15.38	265.89
P-19	283.79	12.02	271.77	16.75	267.04	15.02	268.77	13.48	270.31
Monitoring Point	Measuring Point Elevation	Depth-to-Water 1/14/1998	Elevation 1/14/1998	Depth-to-Water 4/15/1998	Elevation 4/15/1998	Depth-to-Water 5/5/1998	Elevation 5/5/1998	Depth-to-Water 7/23/1998	Elevation 7/23/1998
MW-2	284.21	15.04	269.17	13.82	270.39	15.05	269.16	18.86	265.35
MW-3	278.61	16.89	261.72	17.75	260.86	19.05	259.56	18.51	260.10
MW-4	285.15	9.67	275.48	9.93	275.22	9.95	275.2	9.75	275.40
MW-5	279.51	26.50	253.01	27.61	251.90	28.97	250.54	DRY	DRY
MW-6	283.57	NM	NM	DRY	DRY	13.11	270.46	NM	NM
MW-7	284.31	19.75	264.56	20.35	263.96	21.66	262.65	21.37	262.94
P-3	287.42	7.47	279.95	7.69	279.73	7.85	279.57	8.02	279.40
P-4	286.94	7.79	279.15	7.98	278.96	8.32	278.62	7.59	279.35
P-5	286.16	11.98	274.18	11.79	274.37	12.09	274.07	12.71	273.45
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	15.40	268.53	14.81	269.12	14.91	269.02	DRY	DRY
P-12	283.37	DRY	DRY	14.24	269.13	14.35	269.02	DRY	DRY
P-15	283.31	20.15	263.16	20.56	262.75	20.70	262.61	NM	NM
P-16	282.61	19.33	263.28	19.79	262.82	20.63	261.98	20.65	261.96
P-17	281.27	18.67	262.6	19.40	261.87	20.35	260.92	20.12	261.15
P-19	283.79	13.65	270.14	11.74	272.05	13.17	270.62	17.90	265.89
Monitoring Point	Measuring Point Elevation	Depth-to-Water 1/14/1998	Elevation 1/14/1998	Depth-to-Water 4/15/1998	Elevation 4/15/1998	Depth-to-Water 5/5/1998	Elevation 5/5/1998	Depth-to-Water 7/23/1998	Elevation 7/23/1998
MW-2	284.21	13.74	270.47	17.14	267.07	17.44	266.77	18.88	265.33
MW-3	278.61	12.87	265.74	15.22	263.39	15.98	262.63	18.25	260.36
MW-4	285.15	9.13	276.02	6.41	278.74	9.40	275.75	9.19	275.96
MW-5	279.51	21.69	257.82	24.69	254.82	26.03	253.48	28.05	251.46
MW-6	283.57	NM	NM	NM	NM	NM	NM	NM	NM
MW-7	284.31	16.55	267.76	17.59	266.72	18.63	265.68	20.92	263.39
P-3	287.42	6.74	280.68	6.82	280.6	6.79	280.63	7.26	280.16
P-4	286.94	6.77	280.17	5.70	281.24	6.47	280.47	6.95	279.99
P-5	286.16	12.15	274.01	12.48	273.68	12.39	273.77	12.57	273.59
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	13.60	270.33	14.49	269.44	15.03	268.9	16.13	267.80
P-12	283.37	12.93	270.44	13.93	269.44	DRY	DRY	DRY	DRY
P-15	283.31	17.12	266.19	8.19	275.12	19.19	264.12	21.40	261.91
P-16	282.61	16.65	265.96	17.25	265.36	18.74	263.87	20.71	261.90
P-17	281.27	15.29	265.98	16.65	264.62	17.68	263.59	19.92	261.35
P-19	283.79	14.54	269.25	16.16	267.63	16.92	266.87	17.84	265.95

Table A-2
Groundwater Elevations
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/14/1998	Elevation 10/14/1998	Depth-to-Water 1/19/1999	Elevation 1/19/1999	Depth-to-Water 4/27/1999	Elevation 4/27/1999	Depth-to-Water 7/30/1999	Elevation 7/30/1999
MW-2	284.21	19.06	265.15	17.39	266.82	16.88	267.33	18.26	265.95
MW-3	278.61	19.09	259.52	18.24	241.28	17.47	261.14	20.03	258.58
MW-4	285.15	8.92	276.23	9.13	267.10	9.27	275.88	9.13	276.02
MW-5	279.51	28.41	251.10	27.38	223.72	26.45	253.06	28.64	250.87
MW-6	283.57	NM	NM	DRY	DRY	12.45	271.12	15.25	268.32
MW-7	284.31	21.34	262.97	21.04	241.93	19.87	264.44	22.58	261.73
P-3	287.42	7.12	280.30	7.15	273.15	7.13	280.29	7.67	279.75
P-4	286.94	7.39	279.55	7.13	272.42	7.08	279.86	8.03	278.91
P-5	286.16	12.81	273.35	12.32	261.03	DRY	DRY	DRY	DRY
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	16.87	267.06	15.68	251.38	15.22	268.71	16.52	267.41
P-12	283.37	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-15	283.31	21.93	261.38	21.26	240.12	20.22	263.09	23.18	260.13
P-16	282.61	21.14	261.47	20.96	240.51	18.28	264.33	21.88	260.73
P-17	281.27	20.92	260.35	DRY	DRY	19.12	262.15	DRY	DRY
P-19	283.79	18.02	265.77	16.62	249.15	16.35	267.44	17.60	266.19
Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/21/1999	Elevation 10/21/1999	Depth-to-Water 1/17/2000	Elevation 1/17/2000	Depth-to-Water 4/12/2000	Elevation 4/12/2000	Depth-to-Water 7/18/2000	Elevation 7/18/2000
MW-2	284.21	18.74	265.47	15.76	268.45	17.93	266.28	18.82	246.65
MW-3	278.61	20.20	258.41	16.32	262.29	18.17	260.44	19.29	239.12
MW-4	285.15	9.11	276.04	9.08	276.07	9.52	275.63	9.46	266.58
MW-5	279.51	28.83	250.68	26.22	253.29	27.26	252.25	28.69	221.99
MW-6	283.57	NM	NM	DRY	DRY	DRY	DRY	DRY	DRY
MW-7	284.31	DRY	DRY	19.57	264.74	20.68	263.63	21.96	262.35
P-3	287.42	7.51	279.91	7.04	280.38	7.52	279.90	7.44	272.47
P-4	286.94	7.97	278.97	7.25	279.69	7.68	279.26	7.66	271.31
P-5	286.16	DRY	DRY	11.28	274.88	DRY	DRY	13.57	272.59
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	DRY	DRY	14.75	269.18	16.05	267.88	DRY	DRY
P-12	283.37	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-15	283.31	DRY	DRY	NM	NM	21.10	262.21	22.71	260.60
P-16	282.61	21.85	260.76	19.61	263.00	20.71	261.90	NM	NM
P-17	281.27	DRY	DRY	18.69	262.58	19.94	261.33	21.17	260.10
P-19	283.79	17.72	266.07	15.11	268.68	17.32	266.47	18.34	247.73
Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/25/2000	Elevation 10/25/2000	Depth-to-Water 1/10/2001	Elevation 1/10/2001	Depth-to-Water 4/30/2001	Elevation 4/30/2001	Depth-to-Water 7/31/2001	Elevation 7/31/2001
MW-2	284.21	18.90	265.31	16.84	267.37	18.14	266.07	20.06	264.15
MW-3	278.61	19.10	259.51	17.70	260.91	19.74	258.87	19.56	259.05
MW-4	285.15	9.37	275.78	9.49	275.66	9.69	275.46	9.78	275.37
MW-5	279.51	28.94	250.57	28.31	251.20	28.09	251.42	29.20	250.31
MW-6	283.57	DRY	DRY	NM	NM	DRY	DRY	NM	NM
MW-7	284.31	DRY	DRY	21.93	262.38	22.16	262.15	22.90	261.41
P-3	287.42	6.81	280.61	NM	NM	7.21	280.21	8.03	279.39
P-4	286.94	6.64	280.30	6.72	280.22	7.40	279.54	8.32	278.62
P-5	286.16	DRY	DRY	DRY	DRY	13.20	272.96	DRY	DRY
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	DRY	DRY	16.15	267.78	16.2	267.73	DRY	DRY
P-12	283.37	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-15	283.31	22.80	260.41	22.12	261.19	22.29	261.02	23.66	259.65
P-16	282.61	NM	NM	NM	NM	NM	NM	NM	NM
P-17	281.27	21.48	259.79	20.57	260.70	21.31	259.96	DRY	DRY
P-19	283.79	18.18	265.61	16.48	267.31	17.52	266.27	18.69	265.10

Table A-2
Groundwater Elevations
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/29/2001	Elevation 10/29/2001	Depth-to-Water 1/29/2002	Elevation 1/29/2002	Depth-to-Water 4/10/2002	Elevation 4/10/2002	Depth-to-Water 8/15/2002	Elevation 8/15/2002
MW-2	284.21	20.13	264.08	15.73	268.48	17.01	267.20	19.81	264.40
MW-3	278.61	21.77	256.84	15.49	263.12	16.93	261.68	19.33	259.28
MW-4	285.15	10.06	275.09	9.32	275.83	9.89	275.26	10.15	275.00
MW-5	279.51	29.04	250.47	26.08	253.43	27.17	252.34	29.14	250.37
MW-6	283.57	NM	NM	DRY	DRY	DRY	DRY	DRY	DRY
MW-7	284.31	DRY	DRY	19.48	264.83	19.44	264.87	21.85	262.46
P-3	287.42	8.25	279.17	7.18	280.24	7.00	280.42	8.29	279.13
P-4	286.94	8.62	278.32	7.39	279.55	7.03	279.91	7.91	279.03
P-5	286.16	DRY	DRY	12.81	273.35	13.16	273.00	DRY	DRY
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	DRY	DRY	13.81	270.12	15.14	268.79	DRY	DRY
P-12	283.37	DRY	DRY	13.42	269.95	DRY	DRY	DRY	DRY
P-15	283.31	DRY	DRY	16.72	266.59	19.68	263.63	22.08	261.23
P-16	282.61	NM	NM	NM	NM	NM	NM	NM	NM
P-17	281.27	DRY	DRY	16.35	264.92	18.66	262.61	21.02	260.25
P-19	283.79	18.57	265.22	14.91	268.88	16.37	267.42	18.61	265.18
Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/23/2002	Elevation 10/23/2002	Depth-to-Water 1/23/2003	Elevation 1/23/2003	Depth-to-Water 5/12/2003	Elevation 5/12/2003	Depth-to-Water 7/9/2003	Elevation 7/9/2003
MW-2	284.21	18.75	265.46	13.05	271.16	16.18	268.03	18.88	265.33
MW-3	278.61	19.46	259.15	13.03	265.58	14.58	264.03	18.26	260.35
MW-4	285.15	10.18	274.97	8.62	276.53	9.09	276.06	10.09	275.06
MW-5	279.51	29.35	250.16	22.74	256.77	25.25	254.26	28.75	250.76
MW-6	283.57	DRY	DRY	13.21	270.36	14.04	269.53	DRY	DRY
MW-7	284.31	22.11	262.20	15.88	268.43	17.09	267.22	20.87	263.44
P-3	287.42	7.62	279.80	7.14	280.28	6.73	280.69	6.71	280.71
P-4	286.94	8.19	278.75	6.73	280.21	6.82	280.12	6.42	280.52
P-5	286.16	13.39	272.77	11.77	274.39	12.23	273.93	12.50	273.66
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-11	283.93	DRY	DRY	12.64	271.29	14.12	269.81	16.25	267.68
P-12	283.37	DRY	DRY	12.13	271.24	13.55	269.82	DRY	DRY
P-15	283.31	NM	NM	16.15	267.16	17.40	265.91	21.09	262.22
P-16	282.61	NM	NM	NM	NM	NM	NM	NM	NM
P-17	281.27	DRY	DRY	NM	NM	NM	NM	20.08	261.19
P-19	283.79	17.64	266.15	12.85	270.94	15.93	267.86	18.03	265.76
Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/8/2003	Elevation 10/8/2003	Depth-to-Water 1/21/2004	Elevation 1/21/2004	Depth-to-Water 4/21/2004	Elevation 4/21/2004	Depth-to-Water 4/21/2004	Elevation 4/21/2004
MW-2	284.21	19.45	264.76	16.46	267.75	16.43	267.78	19.17	265.04
MW-3	278.61	19.41	259.20	15.11	263.50	15.29	263.32	18.79	259.82
MW-4	285.15	10.12	275.03	9.31	275.84	9.83	275.32	10.11	275.04
MW-5	279.51	29.25	250.26	24.93	254.58	27.12	252.39	29.23	250.28
MW-6	283.57	DRY	DRY	13.98	269.59	DRY	DRY	dry	dry
MW-7	284.31	22.12	262.19	17.45	266.86	17.79	266.52	21.57	262.74
P-3	287.42	6.61	280.81	6.30	281.12	6.50	280.92	7.31	280.11
P-4	286.94	6.62	280.32	6.42	280.52	6.51	280.43	7.57	279.37
P-5	286.16	13.01	273.15	12.77	273.39	12.52	273.64	dry	dry
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	dry	dry
P-11	283.93	16.66	267.27	14.29	269.64	14.51	269.42	16.57	267.36
P-12	283.37	DRY	DRY	DRY	DRY	13.98	269.39	dry	dry
P-15	283.31	22.38	260.93	17.77	265.54	17.97	242.96	21.88	261.43
P-16	282.61	NM	NM	NM	NM	NM	NM	NM	NM
P-17	281.27	DRY	DRY	NM	NM	NM	NM	NM	NM
P-19	283.79	18.38	265.41	NM	NM	NM	NM	18.18	265.61

Table A-2
Groundwater Elevations
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/16/2004	Elevation 10/16/2004	Depth-to-Water 1/19/2005	Elevation 1/19/2005	Depth-to-Water 4/7/2005	Elevation 4/7/2005	Depth-to-Water 7/25/2005	Elevation 7/25/2005
VE-2	281.50			DRY	DRY	15.50	266.00	20.30	261.20
MW-2	284.21	19.71	264.50	15.41	268.80	15.23	268.98	18.71	265.50
MW-3	278.61	20.05	258.56	14.34	264.27	13.73	264.88	18.61	260.00
MW-4	285.15	10.17	274.98	9.64	275.51	9.50	275.65	10.19	274.96
MW-5	279.51	29.54	249.97	24.16	255.35	24.27	255.24	29.13	250.38
MW-6	283.57	DRY	DRY	DRY	DRY	13.77	269.80	15.33	268.24
MW-7	284.31	22.85	261.46	DRY	DRY	16.55	267.76	21.40	262.91
P-3	287.42	8.02	279.40	7.30	280.12	7.09	280.33	7.62	279.80
P-4	286.94	8.33	278.61	7.51	279.43	7.19	279.75	7.86	279.08
P-5	286.16	DRY	DRY	12.20	273.96	12.03	274.13	13.07	273.09
P-8	285.42	DRY	DRY	DRY	DRY	DRY	DRY	NM	NM
P-11	283.93	DRY	DRY	DRY	DRY	13.54	270.39	16.15	267.78
P-12	283.37	DRY	DRY	DRY	DRY	12.97	270.40	DRY	DRY
P-15	283.31	23.25	260.06	DRY	DRY	15.87	267.44	21.62	261.69
P-16	282.61	NM	NM	NM	NM	NM	NM	DRY	DRY
P-17	281.27	NM	NM	NM	NM	NM	NM	DRY	DRY
P-19	283.79	18.51	265.28	15.04	268.75	15.04	268.75	17.85	265.94
Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/27/2005	Elevation 10/27/2005	Depth-to-Water 1/10/2006	Elevation 1/10/2006	Depth-to-Water 3/13/2006	Elevation 3/13/2006	Depth-to-Water 8/28/2006	Elevation 8/28/2006
VE-2	281.50	21.31	260.19	14.01	267.49	14.00	267.50	21.42	260.08
MW-2	284.21	18.61	265.60	14.02	270.19	13.97	270.24	18.71	265.50
MW-3	278.61	19.41	259.20	12.49	266.12	12.53	266.08	19.59	259.02
MW-4	285.15	10.12	275.03	9.51	275.64	NM	NM	10.23	274.92
MW-5	279.51	29.51	250.00	21.43	258.08	NM	NM	29.77	249.74
MW-6	283.57	15.33	268.24	12.49	271.08	12.36	271.21	DRY	DRY
MW-7	284.31	22.46	261.85	15.07	269.24	15.03	269.28	22.54	261.77
P-3	287.42	7.90	279.52	6.94	280.48	NM	NM	7.58	279.84
P-4	286.94	8.35	278.59	6.99	279.95	NM	NM	7.70	279.24
P-5	286.16	13.13	273.03	14.83	271.33	11.88	274.28	12.62	273.54
P-8	285.42	NM	NM	NM	NM	NM	NM	NM	NM
P-11	283.93	16.69	267.24	12.22	271.71	12.10	271.83	16.54	267.39
P-12	283.37	DRY	DRY	11.64	271.73	11.57	271.80	NM	NM
P-15	283.31	22.70	260.61	15.42	267.89	15.34	267.97	NM	NM
P-16	282.61	NM	NM	NM	NM	15.04	267.57	NM	282.61
P-17	281.27	NM	NM	NM	NM	NM	NM	NM	281.27
P-19	283.79	17.62	266.17	13.63	270.16	13.63	270.16	17.72	266.07
Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/24/2006	Elevation 10/24/2006	Depth-to-Water 1/17/2007	Elevation 1/17/2007	Depth-to-Water 5/9/2007	Elevation 5/9/2007	Depth-to-Water 7/13/2007	Elevation 7/13/2007
VE-2	281.50	22.12	259.38	19.19	262.31	19.66	261.84	21.39	260.11
MW-2	284.21	19.60	264.61	17.24	266.97	16.32	267.89	18.07	266.14
MW-3	278.61	20.42	258.19	17.45	261.16	17.89	260.72	19.60	259.01
MW-4	285.15	10.21	274.94	9.96	275.19	10.04	275.11	10.16	274.99
MW-5	279.51	29.95	249.56	27.62	251.89	28.96	250.55	29.99	249.52
MW-6	283.57	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-7	284.31	22.89	261.42	20.32	263.99	20.79	263.52	Inaccessible	Inaccessible
P-3	287.42	7.90	279.52	7.41	280.01	7.41	280.01	7.73	279.69
P-4	286.94	8.26	278.68	7.61	279.33	7.62	279.32	8.03	278.91
P-5	286.16	13.12	273.04	12.98	273.18	12.63	273.53	12.90	273.26
P-8	285.42	NM	NM	NM	NM	NM	NM	Inaccessible	Inaccessible
P-11	283.93	DRY	DRY	15.32	268.61	14.66	269.27	16.03	267.90
P-12	283.37	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
P-15	283.31	23.47	259.84	20.54	262.77	20.94	262.37	22.74	260.57
P-16	282.61	NM	NM	NM	NM	NM	NM	Inaccessible	Inaccessible
P-17	281.27	DRY	DRY	DRY	DRY	19.88	DRY	DRY	DRY
P-19	283.79	18.39	265.40	16.77	267.02	15.34	268.45	16.98	266.81

Table A-2
Groundwater Elevations
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Monitoring Point	Measuring Point Elevation	Depth-to-Water 10/18/2007	Elevation 10/18/2007	Depth-to-Water 2/21/2008	Elevation 2/21/2008	Depth-to-Water 5/14/2008	Elevation 5/14/2008	Depth-to-Water 7/30/2008	Elevation 7/30/2008
VE-2	281.50	20.20	261.30	17.68	263.82	21.20	260.30	22.55	258.95
MW-2	284.21	15.80	268.41	14.92	269.29	17.00	267.21	18.51	265.70
MW-3	278.61	18.29	260.32	16.23	262.38	19.54	259.07	20.96	257.65
MW-4	285.15	9.98	275.17	9.85	275.30	10.20	274.95	10.19	274.96
MW-5	279.51	29.47	250.04	25.60	253.91	29.43	250.08	30.10	249.41
MW-6	283.57	DRY	DRY	13.62	269.95	DRY	DRY	DRY	DRY
MW-7	284.31	21.39	262.92	Inaccessible	Inaccessible	22.32	261.99	Inaccessible	Inaccessible
P-3	287.42	7.34	280.08	7.35	280.07	7.87	279.55	8.03	279.39
P-4	286.94	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	8.25	278.69
P-5	286.16	12.32	273.84	12.37	273.79	12.91	273.25	12.81	273.35
P-8	285.42	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible
P-11	283.93	18.49	269.44	13.43	270.50	15.74	268.19	16.76	267.17
P-12	283.37	DRY	DRY	12.99	270.38	DRY	DRY	DRY	DRY
P-15	283.31	21.50	261.81	Inaccessible	Inaccessible	22.51	260.80	23.84	259.47
P-16	282.61	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible
P-17	281.27	DRY	DRY	17.91	263.36	21.39	259.88	DRY	DRY
P-19	283.79	14.67	269.12	14.24	269.55	16.08	267.71	17.23	266.56
Monitoring Point	Measuring Point Elevation	Depth-to-Water 12/2/2008	Elevation 12/2/2008	Depth-to-Water 5/28/2009	Elevation 5/28/2009	Depth-to-Water 8/18/2009	Elevation 8/18/2009	Depth-to-Water 10/15/2009	Elevation 10/15/2009
VE-2	281.50	21.09	260.41	20.36	261.14	22.61	258.89	22.11	259.39
MW-2	284.21	16.52	267.69	16.71	267.50	19.06	265.15	12.21	272.00
MW-3	278.61	19.76	258.85	18.72	259.89	21.26	257.35	18.64	259.97
MW-4	285.15	9.78	275.37	9.86	275.29	9.91	275.24	9.41	275.74
MW-5	279.51	29.97	249.54	29.45	250.06	DRY	DRY	29.13	250.38
MW-6	283.57	15.10	268.47	DRY	DRY	DRY	DRY	DRY	DRY
MW-7	284.31	22.23	262.08	21.41	262.50	DRY	DRY	DRY	DRY
P-3	287.42	7.68	279.74	7.60	279.82	8.06	279.36	7.46	279.96
P-4	286.94	7.76	279.18	7.68	279.26	Inaccessible	Inaccessible	7.81	279.13
P-5	286.16	12.45	273.71	12.59	273.57	DRY	DRY	9.99	276.17
P-8	285.42	Inaccessible	Inaccessible	Inaccessible	Inaccessible	DRY	DRY	Inaccessible	Inaccessible
P-11	283.93	14.98	268.95	15.07	268.86	DRY	DRY	14.93	269.00
P-12	283.37	14.41	268.96	DRY	DRY	DRY	DRY	DRY	DRY
P-15	283.31	22.20	261.11	21.50	261.81	23.89	259.42	24.41	258.90
P-16	282.61	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible	Inaccessible
P-17	281.27	21.43	259.84	DRY	DRY	DRY	DRY	DRY	DRY
P-19	283.79	Inaccessible	Inaccessible	Inaccessible	Inaccessible	17.87	265.92	10.06	273.73
Monitoring Point	Measuring Point Elevation	Depth-to-Water 3/9/2010	Elevation 3/9/2010	Depth-to-Water 6/3/2010	Elevation 6/3/2010	Depth-to-Water 8/11/2010	Elevation 8/11/2010		
VE-2	281.50	15.47	266.03	18.34	263.16	22.62	258.88		
MW-2	284.21	13.20	271.01	15.36	268.85	18.83	265.38		
MW-3	278.61	14.29	264.32	16.88	261.73	20.95	257.66		
MW-4	285.15	9.13	276.02	9.44	275.71	9.79	275.36		
MW-5	279.51	24.46	255.05	27.94	251.57	29.99	249.52		
MW-6	283.57	12.29	271.28	13.95	269.62	DRY	DRY		
MW-7	284.31	NM	NM	NM	NM	22.78	261.53		
P-3	287.42	7.06	280.36	7.03	280.39	7.95	279.47		
P-4	286.94	6.87	280.07	6.82	280.12	8.25	278.69		
P-5	286.16	11.52	274.64	12.07	274.09	12.50	273.66		
P-8	285.42	NM	NM	NM	NM	Inaccessible	Inaccessible		
P-11	283.93	11.86	272.07	13.39	270.54	DRY	DRY		
P-12	283.37	11.27	272.10	13.12	270.25	DRY	DRY		
P-15	283.31	NM	NM	19.56	263.75	23.33	259.98		
P-16	282.61	NM	NM	NM	NM	Inaccessible	Inaccessible		
P-17	281.27	15.78	265.49	18.58	262.69	DRY	DRY		
P-19	283.79	12.41	271.38	14.70	269.09	17.64	266.15		

1. NM: Not Measured

Table A-3
Groundwater Analytical Data
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Well ID.	Date	PCP ¹ (ug/L) ²	TCP ¹ (ug/L)	TPHSS ³ (ug/L)	Alkalinity (mg/L) ⁴	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
MW-02	10/12/1993	5.1	1.2	<50 ⁵	— ⁶	—	—	—
	8/31/1994	3.6	<1.0	<50	—	—	—	—
	12/28/1994	7.7	<0.2	<50	—	—	—	—
	3/21/1995	1.9	<0.2	<50	—	—	—	—
	6/29/1995	2.5	0.6	<50	—	—	—	—
	4/3/1996	0.7	<0.2	<50	—	—	—	—
	10/8/1996	0.5	<0.2	<50	—	—	—	—
	4/15/1998	<0.2	<0.2	<50	—	—	—	—
	10/14/1998	<0.2	<0.2	<50	—	—	—	—
	10/21/1999	<0.2	<0.2	<50	—	—	—	—
	4/12/2000	0.72	<0.2	<50	—	—	—	—
	10/25/2000	0.8	<0.2	<50	—	—	—	—
	4/30/2001	0.71	<0.2	<50	—	—	—	—
	7/31/2001	0.28	<0.2	<50	—	—	—	—
	4/10/2002	1.7	0.45	<50	460	0.23	8.6	—
	8/15/2002	1.3	0.23	<50	450	<0.10	7.0	—
	10/23/2002	1.3	0.24	<50	420	<0.10	9.4	—
	1/23/2003	0.77	<0.2	<50	440	0.58	11.0	—
	5/12/2003	0.69	<0.2	<50	510	0.93	9.9	—
	7/9/2003	0.86	<0.2	—	—	—	—	—
	10/8/2003	0.61	<0.20	<50	—	—	—	—
	1/21/2004	1.9	<1.0	<50	—	—	—	—
	4/21/2004	2.2	0.43	<50	—	—	—	—
	7/2/2004	1.2	0.31	<50	—	—	—	—
	10/16/2004	1.4	0.35/<0.1	<50	—	—	—	—
	1/19/2005	1.1	0.3	<50	—	—	—	—
	4/7/2005	4.0	0.4	<250	—	—	—	—
	7/25/2005	1.4	0.3	<50	—	—	—	—
	10/27/2005	0.06	<0.01	<50	—	—	—	—
	1/10/2006	0.7	0.1	<50	—	—	—	—
	3/14/2006	1.2	0.2	—	423	0.224	10.2	<0.15
	8/28/2006	1.0	0.6	<50	—	—	—	—
	10/24/2006	1.4	0.4	<50	—	—	—	—
	1/17/2007	1.8	0.5	<50	—	—	—	—
5/9/2007	1.1	0.2	—	—	—	—	—	
7/13/2007	0.8	0.2	—	—	—	—	—	
10/18/2007	0.6	0.2	—	—	—	—	—	
2/21/2008	0.7	0.1	—	—	—	—	—	
5/14/2008	0.6	0.1	—	—	—	—	—	
7/30/2008	0.9	0.2	—	—	—	—	—	
12/2/2008	0.5	<1.0	—	—	—	—	—	

Table A-3
Groundwater Analytical Data
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Well ID.	Date	PCP ¹ (ug/L) ²	TCP ¹ (ug/L)	TPHSS ³ (ug/L)	Alkalinity (mg/L) ⁴	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
MW-02 cont'd	5/28/2009	0.7	0.1	--	--	--	--	--
	8/18/2009	0.7	0.1	<50	--	--	--	--
	10/15/2009	0.5	<0.1	--	--	--	--	--
	3/9/2010	0.6	<0.1	--	--	--	--	--
	6/3/2010	0.5	<0.1	<50	--	--	--	--
	8/11/2010	0.7	0.2	--	--	--	--	--
MW-03	10/12/1993	2.0	<1.0	<50	--	--	--	--
	8/31/1994	1.2	<1.0	<50	--	--	--	--
	12/28/1994	0.6	<0.2	<50	--	--	--	--
	2/14/1995	0.5	<0.2	<50	--	--	--	--
	3/21/1995	0.7	<0.2	<50	--	--	--	--
	5/4/1995	0.6	<0.2	<50	--	--	--	--
	6/29/1995	0.5	<0.2	<50	--	--	--	--
	8/28/1995	<0.2	<0.2	<50	--	--	--	--
	10/24/1995	<0.2	<0.2	<50	--	--	--	--
	1/19/1996	0.7	<0.2	<50	--	--	--	--
	7/30/1996	<0.2	<0.2	<50	--	--	--	--
	1/28/1997	0.39	<0.2	<50	--	--	--	--
	4/8/1997	<0.2	<0.2	<50	--	--	--	--
	7/15/1997	0.38	<0.2	<50	--	--	--	--
	1/14/1998	0.21	<0.2	<50	--	--	--	--
	7/23/1998	0.34	<0.2	<50	--	--	--	--
	1/19/1999	0.49	<0.2	<50	--	--	--	--
	4/27/1999	0.32	<0.2	<50	--	--	--	--
	1/17/2000	0.3	<0.2	<50	--	--	--	--
	4/12/2000	<0.2	<0.2	<50	--	--	--	--
	7/18/2000	<0.2	<0.2	<50	--	--	--	--
	10/25/2000	<0.2	<0.2	<50	--	--	--	--
	1/10/2001	<0.2	<0.2	<50	--	--	--	--
	4/30/2001	<0.2	<0.2	<50	--	--	--	--
	7/31/2001	<0.2	<0.2	<50	--	--	--	--
	10/29/2001	<0.2	<0.2	<50	--	--	--	--
	1/29/2002	<0.2	<0.2	<50	--	--	--	--
	4/10/2002	<0.2	<0.2	<50	330	<0.10	41	--
8/15/2002	0.34	<0.2	<50	250	<0.10	56	--	
10/23/2002	0.41	<0.2	<50	230	<0.10	47	--	
1/23/2003	0.31	<0.2	<50	240	<0.10	41	--	
5/12/2003	<0.2	<0.2	<50	320	<0.10	29	--	
7/9/2003	0.38	<0.2	--	--	--	--	--	
10/8/2003	0.35	<0.20	<50	--	--	--	--	
1/21/2004	0.4	<1.0	--	--	--	--	--	
4/21/2004	0.45	<0.20	--	--	--	--	--	

Table A-3
Groundwater Analytical Data
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Well ID.	Date	PCP ¹ (ug/L) ²	TCP ¹ (ug/L)	TPHSS ³ (ug/L)	Alkalinity (mg/L) ⁴	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
MW-03 cont'd	7/2/2004	0.37	<0.20	—	—	—	—	—
	10/16/2004	0.34	<0.20	—	—	—	—	—
	1/19/2005	0.30	<0.1	—	—	—	—	—
	4/7/2005	<0.3	0.3	—	—	—	—	—
	7/25/2005	<0.2	<0.2	—	—	—	—	—
	10/27/2005	<0.1	<0.1	—	—	—	—	—
	1/10/2006	0.2	<0.1	—	—	—	—	—
	3/14/2006	0.3	<0.1	—	336	<0.200	25.4	<0.15
	8/28/2006	0.7	0.5	—	—	—	—	—
	10/24/2006	0.3	<0.1	—	—	—	—	—
	1/17/2007	0.2	<0.1	—	—	—	—	—
	5/9/2007	0.2	<0.1	<50	—	—	—	—
	7/13/2007	0.1	<0.1	62	—	—	—	—
	10/18/2007	0.1	<0.1	<50	—	—	—	—
	2/21/2008	0.2	<0.1	<50	—	—	—	—
	5/14/2008	0.1	<0.1	<50	—	—	—	—
	7/30/2008	0.2	<0.1	<50	—	—	—	—
	12/2/2008	0.2	<0.1	<50	—	—	—	—
	5/28/2009	0.1	<0.1	<50	—	—	—	—
	8/18/2009	<0.1	<0.1	—	—	—	—	—
10/15/2009	0.1	<0.1	—	—	—	—	—	
3/9/2010	0.2	<0.1	—	—	—	—	—	
6/3/2010	<0.1	<0.1	<50	—	—	—	—	
8/11/2010	<0.1	<0.1	—	—	—	—	—	
MW-04	10/12/1993	<0.3	<1.0	<50	—	—	—	—
	8/31/1994	<0.3	<1.0	<50	—	—	—	—
	12/28/1994	<0.2	<0.2	<50	—	—	—	—
	3/21/1995	<0.2	<0.2	<50	—	—	—	—
	6/29/1995	<0.2	<0.2	<50	—	—	—	—
	10/24/1995	1.0	<0.2	<50	—	—	—	—
	4/10/2002	<0.2	<0.2	<50	720	<0.10	370	—
MW-05	10/12/1993	<0.3	<1.0	<50	—	—	—	—
	12/28/1994	<0.2	<0.2	<50	—	—	—	—
	3/21/1995	<0.2	<0.2	<50	—	—	—	—
	4/3/1996	<0.2	<0.2	<50	—	—	—	—
	1/28/1997	<0.2	<0.2	NT	—	—	—	—
	4/8/1997	<0.2	<0.2	110	—	—	—	—
	7/15/1997	<0.2	<0.2	<50	—	—	—	—
	4/15/1998	<0.2	<0.2	<50	—	—	—	—
	10/14/1998	<0.2	<0.2	<50	—	—	—	—
	4/27/1999	<0.2	<0.2	<50	—	—	—	—
	4/12/2000	<0.2	<0.2	<50	—	—	—	—
4/30/2001	<0.2	<0.2	<50	—	—	—	—	

Table A-3
Groundwater Analytical Data
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Well ID.	Date	PCP ¹ (ug/L) ²	TCP ¹ (ug/L)	TPHSS ³ (ug/L)	Alkalinity (mg/L) ⁴	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
MW-05 cont'd	4/10/2002	--	--	--	280	0.17	50	--
	8/15/2002	--	--	--	310	0.45	50	--
	10/23/2002	--	--	--	320	0.44	48	--
	1/23/2003	--	--	--	320	0.16	41	--
MW-06	10/12/1993	540	72	7,700	--	--	--	--
	8/31/1994	3,300	660	22,000	--	--	--	--
	12/28/1994	1,000	57	57,000	--	--	--	--
	3/21/1995	520	54	61,000	--	--	--	--
	1/28/1997	280	64	33,000	--	--	--	--
	7/15/1997	57	11	4,700	--	--	--	--
	4/27/1999	3.5	1.2	2,600	--	--	--	--
	8/15/2002	Dry	--	--	--	--	--	--
	10/23/2002	Dry	--	--	--	--	--	--
	1/23/2003	1.3	0.30	<50	530	0.11	1.3	--
	5/12/2003	0.49	<0.20	<50	560	0.32	1.9	--
	7/9/2003	Dry	--	--	--	--	--	--
	1/10/2006	0.4	0.1	--	--	--	--	--
3/14/2006	0.3	0.1	<50	638	<0.200	1.72	<0.15	
MW-07	10/12/1993	0.59	<1.0	<50	--	--	--	--
	8/31/1994	0.49	<1.0	<50	--	--	--	--
	12/28/1994	0.2	<0.2	178	--	--	--	--
	3/21/1995	0.3	<0.2	175	--	--	--	--
	6/29/1995	<0.2	<0.2	<50	--	--	--	--
	1/28/1997	3.6	0.93	170	--	--	--	--
	7/15/1997	<0.2	<0.2	<50	--	--	--	--
	4/27/1999	<0.2	<0.2	<50	--	--	--	--
	4/12/2000	0.44	<0.2	<50	--	--	--	--
	4/30/2001	<0.2	<0.2	<50	--	--	--	--
	4/10/2002	<0.2	<0.2	<50	180	0.28	37	--
	8/15/2002	<0.2	<0.2	<50	200	0.36	38	--
	10/23/2002	Dry	--	--	--	--	--	--
1/23/2003	<0.2	<0.2	<50	260	0.52	22	--	
3/14/2006	0.1	<0.1	<50	250	1.29	9.83	<0.15	
P-4	5/10/2007	<1.0	<1.0	--	--	--	--	--
P-5	1/29/1997	1.8	<0.2	<50	--	--	--	--
	7/15/1997	0.56	<0.2	<50	--	--	--	--
	3/14/2006	0.1	<0.1	420	478	<0.200	83.7	<0.15
P-11	1/29/1997	3.7	1.5	1,400	--	--	--	--
	7/15/1997	18	6.1	1,200	--	--	--	--
	4/27/1999	1.7	2.2	980	--	--	--	--
	4/30/2001	2.4	0.87	390	--	--	--	--
	3/13/2006	10	2.5	120	--	--	--	--

Table A-3
Groundwater Analytical Data
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Well ID.	Date	PCP ¹ (ug/L) ²	TCP ¹ (ug/L)	TPHSS ³ (ug/L)	Alkalinity (mg/L) ⁴	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
P-11 cont'd	5/10/2007	0.2	<0.1	1,200	--	--	--	--
	6/3/2010	0.2	<0.1	380	--	--	--	--
P-12	1/29/1997	7.5	4.4	81	--	--	--	--
	1/14/1998	1.1	<0.2	<50	--	--	--	--
	3/14/2006	0.2	0.1	140	--	--	--	--
P-15	1/29/1997	<0.2	<0.2	<50	--	--	--	--
	7/15/1997	<0.2	<0.2	77	--	--	--	--
	4/27/1999	<0.2	<0.2	79	--	--	--	--
	4/12/2000	<0.2	<0.2	<50	--	--	--	--
P-16	10/12/1993	4.8	1.3	14,000	--	--	--	--
	12/28/1994	5.1	3.0	170,000	--	--	--	--
	3/21/1995	3.3	0.6	36,000	--	--	--	--
	6/29/1995	1.3	0.4	61,000	--	--	--	--
	4/3/1996	2.4	0.9	100,000	--	--	--	--
	1/28/1997	71	19	14,000	--	--	--	--
	7/15/1997	38	10	4,700	--	--	--	--
	4/15/1998	1.9	0.6	1,500	--	--	--	--
3/14/2006	0.7	0.1	750	681	<0.200	<0.400	<0.15	
P-17	10/12/1993	<0.30	<1.0	3,400	--	--	--	--
	8/31/1994	<0.3	<1.0	930	--	--	--	--
	12/28/1994	<0.2	<0.2	3,350	--	--	--	--
	3/21/1995	1.0	<0.2	1,300	--	--	--	--
	5/4/1995	<0.2	<0.2	1,660	--	--	--	--
	6/29/1995	<0.2	<0.2	1,340	--	--	--	--
	1/19/1996	<0.2	<0.2	3,260	--	--	--	--
	1/28/1997	<0.2	2.3	8,400	--	--	--	--
	7/15/1997	0.97	0.43	1,200	--	--	--	--
	1/14/1998	2.3	<0.2	<50	--	--	--	--
	4/27/1999	1.3	<0.2	760	--	--	--	--
	1/17/2000	0.35	<0.2	210	--	--	--	--
	4/12/2000	0.7	<0.2	260	--	--	--	--
	1/10/2001	0.22	<0.2	220	--	--	--	--
	4/10/2002	<0.2	<0.2	97	480	<0.10	7.4	--
	8/15/2002	Dry	--	--	--	--	--	--
1/23/2003	<0.2	<0.2	110	640	0.31	3.3	--	
3/13/2006	0.1	<0.1	57	--	--	--	--	
6/3/2010	<0.1	<0.1	1,200	--	--	--	--	
P-19	1/29/1997	0.31	<0.2	<50	--	--	--	--
	7/15/1997	0.29	<0.2	<50	--	--	--	--
	4/12/2000	0.27	<0.2	<50	--	--	--	--
	10/25/2000	0.56	<0.2	<50	--	--	--	--

Table A-3
Groundwater Analytical Data
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Well ID.	Date	PCP ¹ (ug/L) ²	TCP ¹ (ug/L)	TPHSS ³ (ug/L)	Alkalinity (mg/L) ⁴	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
P-19 cont'd	4/30/2001	0.33	<0.2	<50	--	--	--	--
	3/13/2006	0.1	<0.1	--	--	--	--	--
VE-1	1/29/1997	<0.2	<0.2	<50	--	--	--	--
	7/15/1997	<0.2	<0.2	<50	--	--	--	--
	4/27/1999	<0.2	<0.2	<50	--	--	--	--
	4/12/2000	<0.2	<0.2	<50	--	--	--	--
	10/25/2000	<0.2	<0.2	<50	--	--	--	--
	4/30/2001	<0.2	<0.2	<50	--	--	--	--
VE-2	1/29/1997	6.2	0.45	13,000	--	--	--	--
	7/15/1997	8.1	1.9	8,400	--	--	--	--
	4/27/1999	1.3	<0.2	4,200	--	--	--	--
	7/30/1999	41	15	23,000	--	--	--	--
	4/12/2000	30	5.0	37,000	--	--	--	--
	10/25/2000	6.4	1.4	7,900	--	--	--	--
	4/30/2001	10	2.0	2,900	--	--	--	--
	1/29/2002	1.5	0.43	<50	--	--	--	--
	4/10/2002	2.3	1.3	92	580	<0.10	50	--
	8/15/2002	3.5	0.57	270	640	0.12	18	--
	10/23/2002	8.5	2.1	110	1,200	0.12	51	--
	1/23/2003	0.91	0.21	<50	570	<0.10	14	--
	5/12/2003	<0.2	<0.20	<50	560	<0.10	4.3	--
	7/9/2003	2.3	0.41	200	--	--	--	--
	10/8/2003	0.9	<0.20	74	--	--	--	--
	1/21/2004	1.0	1.0	<50	--	--	--	--
	4/21/2004	0.22	<0.20	<50	--	--	--	--
	7/2/2004	<0.2	<0.20	61	--	--	--	--
	10/16/2004	2.8	0.58	220	--	--	--	--
	4/7/2005	<0.1	<0.1	<50	--	--	--	--
	7/25/2005	<0.2	<0.2	70	--	--	--	--
	10/27/2005	0.2	<0.1	<50	--	--	--	--
	1/10/2006	0.3	0.1	<50	--	--	--	--
	3/14/2006	0.3	<0.1	53	--	--	--	--
	8/28/2006	0.4	0.6	<50	--	--	--	--
	1/17/2007	1.9	0.4	290	--	--	--	--
	5/10/2007	0.4	0.2	98	--	--	--	--
	7/13/2007	1.5	0.6	<50	--	--	--	--
10/18/2007	1.4	0.7	480	--	--	--	--	
2/21/2008	0.3	<0.1	<50	--	--	--	--	
5/14/2008	0.6	0.3	1,100	--	--	--	--	
12/2/2008	0.8	0.4	250	--	--	--	--	
5/28/2009	<0.1	0.1	<50	--	--	--	--	

Table A-3
Groundwater Analytical Data
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Well ID.	Date	PCP ¹ (ug/L) ²	TCP ¹ (ug/L)	TPHSS ³ (ug/L)	Alkalinity (mg/L) ⁴	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
VE-2 cont'd	3/9/2010	0.5	<0.1	280	--	--	--	--
	6/3/2010	0.2	<0.1	390	--	--	--	--
VE-3	1/29/1997	<0.2	<0.2	<50	--	--	--	--
	7/15/1997	<0.2	<0.2	<50	--	--	--	--
	7/30/1999	<0.2	<0.2	<50	--	--	--	--
	10/25/2000	<0.2	<0.2	<50	--	--	--	--
	4/30/2001	<0.2	<0.2	<50	--	--	--	--
	4/10/2002	<0.2	<0.2	<50	310	6.9	61	--
	8/15/2002	<0.2	<0.2	<50	290	2.0	45	--
	10/23/2002	<0.2	<0.2	<50	280	0.99	39	--
	1/23/2003	<0.2	<0.2	<50	270	1.2	38	--
VE-4	4/10/2002	--	--	--	250	2.3	44	--
	8/15/2002	--	--	--	260	<0.10	34	--
	10/23/2002	--	--	--	270	0.21	30	--
	1/23/2003	--	--	--	280	<0.10	27	--
Trench-Out	10/11/1995	<0.2	<0.2	<50	--	--	--	--
	10/24/1995	<0.2	<0.2	<50	--	--	--	--
	11/16/1995	<0.2	<0.2	<50	--	--	--	--
	12/27/1995	<0.2	<0.2	<50	--	--	--	--
	1/19/1996	<0.2	<0.2	<50	--	--	--	--
	3/29/1996	<0.2	<0.2	<50	--	--	--	--
	4/3/1996	<0.2	<0.2	<50	--	--	--	--
	5/16/1996	0.34	<0.2	<50	--	--	--	--
	6/10/1996	<0.2	<0.2	<50	--	--	--	--
	7/30/1996	<0.2	<0.2	<50	--	--	--	--
	8/15/1996	<0.2	<0.2	<50	--	--	--	--
	9/4/1996	<0.2	<0.2	<50	--	--	--	--
	11/19/1996	<0.2	<0.2	<50	--	--	--	--
	12/19/1996	<0.2	<0.2	<50	--	--	--	--
	8/28/1997	<0.2	<0.2	<50	--	--	--	--
	1/14/1998	<0.2	<0.2	<50	--	--	--	--
	2/16/1998	<0.2	<0.2	<50	--	--	--	--
	3/18/1998	<0.2	<0.2	<50	--	--	--	--
	4/15/1998	<0.2	<0.2	<50	--	--	--	--
	5/5/1998	<0.2	<0.2	<50	--	--	--	--
	6/15/1998	<0.2	<0.2	<50	--	--	--	--
	7/23/1998	<0.2	<0.2	<50	--	--	--	--
	8/10/1998	<0.2	<0.2	<50	--	--	--	--
10/14/1998	<0.2	<0.2	<50	--	--	--	--	
1/19/1999	<0.2	<0.2	<50	--	--	--	--	
4/27/1999	<0.2	<0.2	<50	--	--	--	--	
7/30/1999	<0.2	<0.2	<50	--	--	--	--	
10/21/1999	<0.2	<0.2	<50	--	--	--	--	
1/17/2000	<0.2	<0.2	<50	--	--	--	--	

Table A-3
Groundwater Analytical Data
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Well ID.	Date	PCP ¹ (ug/L) ²	TCP ¹ (ug/L)	TPHSS ³ (ug/L)	Alkalinity (mg/L) ⁴	Nitrate (mg/L)	Sulfate (mg/L)	Dissolved Iron (mg/L)
Trench-Out cont'd	4/12/2001	<0.2	<0.2	<50	-	-	-	-
	7/18/2000	0.33	<0.2	<50	-	-	-	-
	10/25/2000	<0.2	<0.2	<50	-	-	-	-
	1/10/2001	<0.2	<0.2	<50	-	-	-	-
	4/30/2001	<0.2	<0.2	<50	-	-	-	-
	10/29/2001	<0.2	<0.2	<50	-	-	-	-
	8/15/2002	<0.2	<0.2	<50	-	-	-	-
	10/23/2002	<0.2	<0.2	<50	-	-	-	-
	1/23/2003	<0.2	<0.2	<50	-	-	-	-
Trench-In	10/11/1995	190	37	288	-	-	-	-
	10/24/1995	9.1	1.7	<50	-	-	-	-
	11/16/1995	3.2	<0.2	<50	-	-	-	-
	12/27/1995	14.4	<0.2	<50	-	-	-	-
	1/19/1996	7.9	1.2	<50	-	-	-	-
	3/29/1996	0.5	<0.2	<50	-	-	-	-
	4/3/1996	1.9	3.6	<50	-	-	-	-
	5/16/1996	0.64	<0.2	<50	-	-	-	-
	6/10/1996	0.4	<0.2	<50	-	-	-	-
	7/30/1996	<0.2	<0.2	10,600	-	-	-	-
	8/15/1996	<0.2	<0.2	<50	-	-	-	-
	9/4/1996	<0.2	<0.2	<50	-	-	-	-
	1/28/1997	<0.2	<0.2	<50	-	-	-	-
	2/12/1997	<0.2	<0.2	<50	-	-	-	-
	3/18/1997	<0.2	<0.2	<50	-	-	-	-
4/8/1997	<0.2	<0.2	<50	-	-	-	-	

1. PCP/TCP: Pentachlorophenol/Tetrachlorophenol
2. ug/L: micrograms per Liter
3. TPHSS: Total Petroleum Hydrocarbons as Stoddard Solvent
4. mg/L: milligrams per Liter
5. <: "less than" the stated method reporting limit
6. -: Not Analyzed

Table A-4
Groundwater Analytical Data, Petroleum Hydrocarbons
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA
(units in ug/L)¹

Well ID.	Date	MTBE ²	TPHG ³	Benzene	Toluene	Ethyl benzene	m,p-Xylene	o-Xylene	TPHD ⁴	Motor Oil
MW-05	1/29/2002	<3.0 ⁵	— ⁶	<0.50	<0.50	<0.50	<0.50	<0.50	<50	—
	4/10/2002	<3.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<170
	8/15/2002	<3.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<170
	10/23/2002	<3.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	—
	1/23/2003	<3.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<170
VE-4	4/12/2000	<3.0	180	7.7	<1.0	2.3	2.3	1.6	—	—
	1/29/2002	<3.0	—	<0.50	<0.50	<0.50	<0.50	<0.50	<50	—
	4/10/2002	<3.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<170
	8/15/2002	<3.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<170
	10/23/2002	<3.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	—
	1/23/2003	<3.0	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<170

1. ug/L: micrograms per Liter
2. MTBE: Methyl Tertiary-Butyl Ether
3. TPHG: Total Petroleum Hydrocarbons as Gasoline
4. TPHD: Total Petroleum Hydrocarbons as Diesel
5. <: "less than" the stated method reporting limit
6. --: not tested

Table A-5
Groundwater Analytical Results, Dioxin and Furan Compounds, May 23, 2007
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA
(in pg/L) ¹

Constituent	MW-2	MW-3	VE-2	P-4	P-11
2,3,7,8-TCDD	ND ²	ND	ND	ND	ND
1,2,3,7,8-PeCDD	ND	ND	ND	ND	ND
1,2,3,4,7,8-HxCDD	ND	ND	ND	ND	ND
1,2,3,6,7,8-HxCDD	ND	ND	10.7J ³	ND	2.53J
1,2,3,7,8,9-HxCDD	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-HpCDD	ND	ND	264	8.19J	47.9
OCDD	14.3J	ND	2,350	90.8	541
Total TCDD	2.95J	ND	ND	ND	ND
Total PeCDD	ND	ND	12.8J	ND	12.9J
Total HxCDD	ND	ND	80.9	ND	31.5
Total HpCDD	ND	ND	435	14.5J	81.3
2,3,7,8-TCDF	ND	ND	ND	ND	ND
1,2,3,7,8-PeCDF	ND	ND	ND	ND	ND
2,3,4,7,8-PeCDF	ND	ND	ND	ND	ND
1,2,3,4,7,8-HxCDF	ND	ND	ND	ND	ND
1,2,3,6,7,8-HxCDF	ND	ND	3.64J	ND	ND
2,3,4,6,7,8-HxCDF	ND	ND	7.41J	ND	ND
1,2,3,7,8,9-HxCDF	ND	ND	ND	ND	ND
1,2,3,4,6,7,8-HpCDF	ND	ND	142	2.73J	23.7J
1,2,3,4,7,8,9-HpCDF	ND	ND	10.5J	ND	ND
OCDF	ND	ND	633	7.26J	104
Total TCDF	ND	ND	200D,M ^{4,5}	ND	7.96D,M
Total PeCDF	ND	ND	271D,M	ND	15.4D,J,M
Total HxCDF	ND	ND	398D,M	1.7J	43.1D,M
Total HpCDF	ND	ND	582	6.5J	82.5
TEQ ⁶ (WHO, 1996)	0.00143	0	6.64	0.119	1.03

1. pg/L: picograms per Liter (approximately equivalent to parts per quadrillion)
2. ND: Not Detected
3. J: Analyte Concentration Below Calibration Range
4. D: Presence of Diphenyl Ethers
5. M: Maximum possible concentration
6. TEQ: Toxic Equivalent

Table A-6
Soil Physical Properties August 23, 2007
Former Cloverdale Remanufacturing Facility, Cloverdale, California

Sample Location @ Depth (ft) ¹	Gravimetric Moisture Content (%, g/g) ²	Volumetric Moisture Content (%, cm ³ /cm ³) ³	Dry Bulk Density (g/cm ³) ⁴	Wet Bulk Density (g/cm ³)	Calculated Porosity (%)	Total Organic Carbon (%)
B-102 @ 10.5-12'	20.6	33.8	1.64	1.98	38.2	<0.1
B-108 @ 17.25-18.5	20.9	35.8	1.71	2.07	35.4	0.22

1. ft: linear feet

2. g/g: grams per gram

3. cm³/cm³: cubic centimeters per cubic centimeter

4. g/cm³: grams per cubic centimeter

5. <: "less than" the stated method reporting limit

Table A-7
Soil Analytical Results, August 23, 2007
Former Cloverdale Remanufacturing Facility, Cloverdale, California
(in mg/kg)¹

Sample Location and Depth (feet)	PCP ²	TCP ²	TPHSS ³
B-101 @ 2.0-4.0'	<0.03 ⁴	<0.3	<10
B-101 @ 6.0-8.0'	<0.03	<0.3	<10
B-102 @ 5.5-6.0'	<0.03	<0.3	<10
B-102 @ 8.0-9.0'	<0.03	<0.3	<10
B-103 @ 2.0-3.0'	<0.03	<0.3	<10
B-103 @ 9.0-10.0'	<0.03	<0.3	<10
B-103 @ 12.0-13.0'	<0.03	<0.3	<10
B-104 @ 4.0-5.0'	<0.03	<0.3	<10
B-104 @ 11.0-12.0'	3.6	<15	1,100
B-105 @ 6.5-7.5'	<0.03	<0.3	<10
B-106 @ 9.5-10.25'	<0.03	<0.3	<10
B-106 @ 14.5-15.0'	0.49	<3	20
B-107 @ 9.25-10.25'	<0.03	<0.3	<10
B-107 @ 19.0-20.0'	<0.03	<0.3	<10
B-108 @ 15.0-16.0'	<0.03	<0.3	<10
B-108 @ 19.0-20.0'	<0.03	<0.3	<10
Remediation Goals	9.0 ⁵	18,000 ⁵	99 ^{6,7}

1. mg/kg: milligrams per kilogram
2. Pentachlorophenol (PCP) and Tetrachlorophenol (TCP), in accordance With EPA Method No. 8270C SIM
3. TPHSS: Total Petroleum Hydrocarbons as Stoddard Solvent, in general accordance with EPA Method No. 8015M
4. <: "less than" the stated method reporting limit
5. U.S. Environmental Protection Agency, (2004). Region 9 PRGs 2004 Table for industrial soils.
6. Source: *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, California* Environmental Protection Agency, Regional Water Quality Control Board, San Francisco Bay Area Region, November, 2007.
7. Value is for commercial/industrial sites with deep soils where groundwater is not used as a source of drinking water. TPH (middle distillates) used as surrogate for TPHSS.

Table A-8
Soil Analytical Data-Dioxin and Furan Compounds, July 2000
Former Cloverdale Remanufacturing Facility, Cloverdale, California
(in pg/g)¹

Dioxin or Furan Compound	Sample Identification			
	P-2	P-7	N-1	TEF ² Factor
2,3,7,8-TCDD	<1.1 ³	<1.1	<1.1	1
1,2,3,7,8-PeCDD	<5.6	<5.7	<5.4	1
1,2,3,4,7,8-HxCDD	32	13	8.7	0.1
1,2,3,6,7,8-HxCDD	5,000	3,500	72	0.1
1,2,3,7,8,9-HxCDD	1,200	870	25	0.1
1,2,3,4,6,7,8-HpCDD	38,000	33,000	1,900	0.01
OCDD	310,000	270,000	21,000	0.0001
2,3,7,8-TCDF	<1.1	<1.1	<1.1	0.1
1,2,3,7,8-PeCDF	7	<5.7	<5.4	0.05
2,3,4,7,8-PeCDF	<5.6	<5.7	<5.4	0.5
1,2,3,4,7,8-HxCDF	190	110	16	0.1
1,2,3,6,7,8-HxCDF	70	29	<5.4	0.1
2,3,4,6,7,8-HxCDF	47	25	<5.4	0.1
1,2,3,7,8,9-HxCDF	5.8	<5.7	<5.4	0.1
1,2,3,4,6,7,8-HpCDF	7,800	5,500	410	0.01
1,2,3,4,7,8,9-HpCDF	380	290	20	0.01
OCDF	37,000	33,000	1,900	0.0001
TEQ ⁴ (World Health Organization)	1,156	878	43	---

1. pg/g: picograms per gram
2. TEF: Toxic Equivalency Factor
3. <: "less than" the method reporting limit
4. TEQ: Toxic Equivalent calculated for each sample
5. ---: Not Applicable

Table A-9
Soil Analytical Results, Dioxin and Furan Compounds, August 23, 2007
Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Constituent	(in pg/g) ¹												
	B-101 @ 2-4'	B-101 @ 6-8'	B-102 @ 5.5-6.0'	B-102 @ 9'	B-103 @ 2-3'	B-104 @ 4-5'	B-104 @ 11-12'	B-106 @ 9.25-10.25'	B-106 @ 14-15'	B-107 @ 9.25-10.25'	B-107 @ 19-20'	B-108 @ 15-16'	B-108 @ 19-20'
2,3,7,8-TCDD	<0.0782 ²	<0.0681	<0.111	<0.167	<0.0747	<0.106	<0.0739	<0.0968	2.46	<0.322	<0.0978	<0.143	<0.123
1,2,3,7,8-PeCDD	<0.106	<0.114	<0.0934	<0.166	<0.117	<0.186	<0.196	<0.124	6.89	<0.196	<0.136	<0.115	<0.118
1,2,3,4,7,8-HxCDD	<0.237	<0.424	<0.254	<0.370	<0.215	<0.372	1.80 ³	<0.242	8.44	<0.750	<0.434	<0.488	<0.316
1,2,3,6,7,8-HxCDD	<0.256	<0.455	<0.287	<0.402	0.323 ³	<0.382	159	<0.264	1,820	<0.818	<0.479	<0.506	<0.339
1,2,3,7,8,9-HxCDD	<0.274	<0.504	<0.312	<0.282	<0.246	<0.412	16	<0.284	543	<0.901	<0.484	<0.544	<0.393
1,2,3,4,6,7,8-HpCDD	<0.294	<0.224	<0.333	<0.489	2.37 ³	<0.244	5,470	<0.764	10,400	<0.552	<0.503	<0.472	<0.678
OCDD	<0.707	<0.641	<0.923	<1.54	19.8	<0.459	46,000	7.60	58,200	<0.936	<0.710	<0.819	<0.999
Total TCDD	0.292 ³	0.230 ³	<0.111	<0.167	0.277 ³	2.26	1.11	2.69	385	<0.322	0.284 ³	<0.143	<0.123
Total PeCDD	<0.106	<0.114	<0.0934	<0.166	<0.117	<0.186	0.901 ³	<0.124	1,220	<0.196	<0.136	<0.115	<0.118
Total HxCDD	<0.274	<0.504	<0.312	<0.402	0.849 ³	<0.412	476	<0.284	12,000	<0.901	<0.484	<0.544	<0.393
Total HpCDD	<0.294	<0.224	<0.333	<0.489	4.18	<0.244	8,270	<0.764	16,400	<0.552	<0.503	<0.472	<0.678
2,3,7,8-TCDF	<0.0689	<0.0843	<0.0834	<0.124	<0.0898	<0.0850	<0.0805	<0.0878	<0.0765	<0.142	<0.0863	<0.137	<0.107
1,2,3,7,8-PeCDF	<0.150	<0.0981	<0.121	<0.161	<0.166	<0.145	0.595 ³	<0.120	0.630 ³	<0.148	<0.164	<0.161	<0.146
2,3,4,7,8-HxCDF	<0.165	<0.114	<0.136	<0.177	<0.179	<0.176	0.756 ³	<0.125	0.522 ³	<0.171	<0.185	<0.174	<0.165
1,2,3,4,7,8-HxCDF	<0.0735	<0.0929	<0.118	<0.133	<0.0805	<0.151	23.7	<0.142	13.1	<0.151	<0.111	<0.107	<0.127
1,2,3,6,7,8-HxCDF	<0.0716	1.03 ³	<0.114	<0.107	<0.0796	<0.154	7.16	<0.141	8.19	<0.146	<0.107	<0.106	<0.116
2,3,4,6,7,8-HxCDF	<0.0849	<0.106	<0.134	<0.132	<0.0880	<0.176	19.9	<0.155	18.5	<0.175	<0.144	<0.137	<0.138
1,2,3,7,8,9-HxCDF	<0.195	<0.136	<0.161	<0.181	<0.116	<0.231	5.65	<0.194	3.44	<0.235	<0.209	<0.189	<0.197
1,2,3,4,6,7,8-HpCDF	<0.126	<0.108	<0.129	<0.237	0.897 ³	<0.143	1,930	<0.285	1,650	<0.224	<0.140	<0.239	<0.139
1,2,3,4,7,8,9-HpCDF	<0.164	<0.138	<0.177	<0.327	<0.153	<0.176	79.5	<0.361	62.1	<0.279	<0.181	<0.306	<0.207
OCDF	<0.409	<0.422	<0.484	<0.865	3.10 ³	<0.337	9,990	2.20 ³	8,190	<0.894	<0.624	<0.776	<0.727
Total TCDF	0.248 ³	0.782	<0.0837	<0.124	0.680	3.17	16.5	0.707	21	0.293 ³	0.285 ³	<0.137	<0.107
Total PeCDF	<0.165	0.445 ³	<0.136	<0.177	<0.280	<0.176	15.9	<0.125	50.4	<0.171	<0.185	<0.174	<0.165
Total HxCDF	<0.195	1.03 ³	<0.161	<0.181	0.842 ³	<0.231	2,190 ⁴	<0.194	1,890 ⁴	<0.235	<0.209	<0.189	<0.197
Total HpCDF	<0.164	<0.138	<0.177	<0.327	3.27	<0.176	10,200	<0.361	8,010	<0.279	<0.181	<0.306	<0.207
TEQ ⁵ (WHO, 1998)	0.00	0.103	0.00	0.00	0.0673	0.00	104	0.00098	379	0.00	0.00	0.00	0.00

1. PG/G: picograms per gram
 2. <: "less than" the stated method reporting limit
 3. Analyte Concentration Below Calibration Range
 4. Presence of Diphenyl Ethers/Maximum possible concentration
 5. TEQ: Toxic Equivalent, 1998 World Health Organization

Table A-10
 Siding Department Area-Soil Analytical Results-Dioxin and Furan Compounds, July 23, 2010
 Former LP Cloverdale Remanufacturing Facility, Cloverdale, CA

Constituent	B-104A@17 ¹	B-106A@19.5 ¹	B-106A@25 ¹	B-201@12 ¹	B-201@17 ¹	B-202@14 ¹	B-202@19 ¹	B-203@13 ¹	B-203@17.5 ¹
2,3,7,8-TCDD	<0.255 ²	<0.228	<0.141	<0.327	<0.176	<0.272	<0.284	<0.132	<0.213
1,2,3,7,8-PeCDD	3.41 ³	1.65 ³	<0.276	<0.496	<0.406	4.67 ³	2.16 ³	<0.257	<0.33
1,2,3,4,7,8-HxCDD	8.30	10.5	<0.626	<0.671	2.57 ³	34.0	3.38 ³	<0.376	<0.366
1,2,3,6,7,8-HxCDD	10.9	514	11.9	<0.747	68.1	3,210	16.7	<0.415	<0.4
1,2,3,7,8,9-HxCDD	3.39 ³	136	3.23 ³	<0.731	6.35	705	4.11 ³	<0.408	<0.395
1,2,3,4,6,7,8-HpCDD	137	5,210	123	<1.49	2,180	13,300	89.9	<0.769	<1.1
OCDD	80.0	40,100	740	<2.64	19,600	46,000	65.3	<2.37	<2.7
2,3,7,8-TCDF	<0.0732	<0.0701	<0.0569	<0.191	<0.0834	<0.0823	<0.110	<0.073	<0.0914
1,2,3,7,8-PeCDF	<0.139	0.575 ³	<0.226	<0.387	<0.394	0.705 ³	<0.253	<0.175	<0.241
2,3,4,7,8-PeCDF	<0.148	0.548 ³	<0.241	<0.408	1.04 ³	0.909 ³	<0.376	<0.169	<0.246
1,2,3,4,7,8-HxCDF	<0.236	13.8	0.599 ³	<0.502	10.7	12.4	<0.523	<0.266	<0.222
1,2,3,6,7,8-HxCDF	0.443 ³	7.73	<0.239	<0.481	6.27	10.8	<0.544	<0.282	<0.225
2,3,4,6,7,8-HxCDF	<0.262	24.0	0.855 ³	<0.536	16.5	22.5	<1.04	<0.298	<0.256
1,2,3,7,8,9-HxCDF	<0.321	2.70 ³	<0.334	<0.698	1.87 ³	6.57	<1.16	<0.396	<0.302
1,2,3,4,6,7,8-HpCDF	0.645	1,840	34.8	<0.836	1,190	1,290	<1.18	<0.414	<0.36
1,2,3,4,7,8,9-HpCDF	<0.339	46.2	1.78 ³	<1.10	34.1	36.4	<1.95	<0.508	<0.429
OCDF	3.55 ³	9,710	180	<2.18	6,660	6,760	5.17 ³	<1.28	<1.11
Total TCDD	242	16.4	1.22	<0.328	6.36	17.8	162	<0.132	<0.213
Total PeCDD	80.2	119	10.0	<0.496	28.0	97.8	80.3	<0.257	<0.33
Total HxCDD	118	2,680	107	<0.747	244	13,900	134	<0.415	<0.4
Total HpCDD	162	8,250	228	<1.49	3,390	17,900	115	<0.769	<1.1
Total TCDF	1.04	27.9 ⁴	2.08	<0.191	21.5 ⁴	27.7 ⁴	0.516 ³	<0.073	<0.0914
Total PeCDF	0.913 ³	35.4 ⁴	0.993 ³	<0.408	56.5 ⁴	28.3 ⁴	<0.376	<0.175	<0.246
Total HxCDF	1.42 ³	2,350 ⁴	59.2	<0.698	1,650 ⁴	1,880 ⁴	<1.16	<0.396	<0.302
Total HpCDF	2.28 ³	9,150	155	<1.10	5,700	7,020	2.52 ³	<0.508	<0.429
TEQ ⁵ (WHO, 1998)	7.10	149	3.35	0	48.4	557	5.49	0	0

4. Presence of Diphenyl Ethers/Maximum possible concentration

5. TEQ: Toxicity Equivalents (World Health Organization, 1998)

1. pg/g: picograms per gram

2. <: "less than" the stated method reporting limit

3. Analyte Concentration Below Calibration Range

Table A-11
Soil Analytical Results, July 22 & 23, 2010
Former Cloverdale Remanufacturing Facility, Cloverdale, California
(in mg/Kg)¹

Sample Location & Depth (feet)	PCP ²	2,3,4,6-TCP ²	2,3,4,5 + 2,3,5,6-TCP ²	TPHMO ³	TPHD ³	TPHG ³	TPHSS ³	B ⁴	T ⁴	E ⁴	X ⁴	MTBE ⁴
B-104A@16.5'	<0.1 ⁵	<0.1	<0.2	-- ⁶	--	--	<10	--	--	--	--	--
B-106A@19'	0.26	<0.1	<0.2	--	--	--	39	--	--	--	--	--
B-106A@25'	<0.1	<0.1	<0.2	--	--	--	<10	--	--	--	--	--
B-201@12'	<0.1	<0.1	<0.2	--	--	--	<10	--	--	--	--	--
B-201@17'	<0.1	<0.1	<0.2	--	--	--	<10	--	--	--	--	--
B-202@13.5'	0.91 ⁷	<1	<2	--	--	--	--	--	--	--	--	--
B-202@13.5'	1.5 ⁸	<0.1	0.44	--	--	--	350	--	--	--	--	--
B-202@18.5'	<0.1	<0.1	<0.2	--	--	--	<10	--	--	--	--	--
B-203@12.5'	<0.1	<0.1	<0.2	--	--	--	<10	--	--	--	--	--
B-203@17'	<0.1	<0.1	<0.2	--	--	--	<10	--	--	--	--	--
B-204@11'	--	--	--	<50	11 ⁹	14	--	<0.2	<0.2	0.79	2.1	<0.1
B-204@16'	--	--	--	<50	<10	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-204@21'	--	--	--	<50	<10	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-204@25'	--	--	--	<50	31	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-204@31'	--	--	--	110 ⁹	65	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-204@35'	--	--	--	170 ⁹	100	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@6'	--	--	--	1,800	400	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@11'	--	--	--	<50	<10	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@16'	--	--	--	<50	<10	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@21'	--	--	--	<50	<10	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1
B-205@25'	--	--	--	<50	47	<2	--	<0.2	<0.2	<0.2	<0.06	<0.1

1. mg/Kg; milligrams per Kilogram
2. Pentachlorophenol (PCP) and Tetrachlorophenol (TCP), analyzed in general accordance with EPA Method No. 8270D SIM
3. Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), as Gasoline (TPHG), and as Stoddard Solvent (TPHSS), analyzed in general accordance with EPA Method No. 8015M
4. Benzene (B), Toluene (T), Ethylbenzene (E), total Xylenes (X), and Methyl Tertiary-Butyl Ether (MTBE), analyzed in general accordance with EPA Method No. 8021B
5. <: "less than" the stated method reporting limit
6. --: Not Analyzed
7. The results is below normal reporting limits. The value reported is an estimate.
8. 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.
9. The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Table A-12
Maintenance Building/AST Area-Groundwater Analytical Results, July 22, 2010
Former Cloverdale Remanufacturing Facility, Cloverdale, California
(in ug/L)¹

Sample Location & Depth (feet)	TPHMO ²	TPHD ²	TPHG ²	Benzene ³	Toluene ³	Ethyl-benzene ³	Total Xylenes ³	MTBE ³
B-205	<50 ⁴	25 ⁵	<50	<0.5	<0.5	<0.5	<1.5	<5

1. ug/L: micrograms per Liter
2. Total Petroleum Hydrocarbons as Motor Oil (TPHMO), as Diesel (TPHD), and as Gasoline (TPHG), analyzed in general accordance with EPA Method No. 8015M
3. Benzene, Toluene, Ethylbenzene, Total Xylenes, and Methyl Tertiary-Butyl Ether (MTBE), analyzed in general accordance with EPA Method No. 8021B
4. <: "less than" the stated method reporting limit
5. The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Appendix B

Field Notes and Boring Logs



Daily Field Report		Job No.
		095107-209
		Page 1 of 1
Project Name LP CLONER DALE	Client/Owner L.P.	Weather OVERCAST / SUNNY & WARM
General Location of Work EAST, CA	Project Manager M. FOGLT	Date 7-22-10
Type of Work SOIL / GW SAMPLER		Day of Week THURS.
		Field Personnel Z. RUEBER
4:30	LEAVE FOR SITE 8:00 @ SITE CHECKING LOCATIONS	
	- MEET W/ ERIC - SHOWING NO DRAIN NEAR B-203	
	LOCATION SHOULD BE OK	
8:50	CLOSE HURT ON SITE - TO MAINTENANCE AREA - SAFETY MEETING	
	- SET UP @ B-205 NEAR AST'S PABLO RIVER BORROW - HUBBET	
	- CHECK 2" WHEEL MAINTENANCE AREA	
	DTW @ 22.22' BTCC - NOTCH IN CASING	
	TD @ 23.06' BTCC - SOFT - 1.0" SILT ON PHONE	
9:35	CALIBRATE HNU DL-101 w/ 100 PPM ISOBUTYLENE	
9:40	BEGIN DRILLING @ B-205 - 7.0" HCA 2" SPLIT SPOON	
	1.5" @ 25' - RIG CHATTERING 27-30' 20" SAMPLE SPT 1.5"	
	SAMPLE TUBES - 1.5 DRUMS OF CUTTINGS	
11:00	SET 2" PVC 10' 0.010 SPOON - 25-35' 0.25" BLANK REEL	
	@ 11:40 5" OF WATER - PULLED 3 AUGERS OUT	
12:35	DTW ~30.9' BGS - COLLECT SAMPLE W/ DISP BAKER	
	GRAB SAMPLE - @ 12:40 - PULL AUGERS @ CASING	
	- GROUT HOLE W/ I/O PORTLAND CEMENT & WATER	
	- MOVE TO B-204	
13:30	SAMPLE DRUM 1 (B-205)	
13:40	BEGIN @ B-204	
14:00	SAMPLED DRUM 2	
15:00	@ 35' B-204 - 2" SS TO 20' SPT SAMPLER 25-35'	
	NO VISIBLE WATER ON TOOLS/ SAMPLES - AUGER TO 40'	
15:30	SAMPLED DRUM 3 - SET PVC 10' 0.010 30-40' 0.30" BLANK	
	LET SIT PULLED 3 AUGER FLIGHTS	
16:20	OFFSITE	
		Copy given to:
		Reported By:



Daily Field Report		Job No.
Project Name LP CLOVERLEAF		095107-209
Client/Owner LP		Page 1 of
General Location of Work ASTI, CA		Weather SUNNY / SUNNY & WARM
Project Manager M. FOGEL		Date 7-23-10
Type of Work SOIL / GW SAMPLING		Day of Week FRI
		Field Personnel R. RUEBEN
710	ON-SITE - CHECK TEMP WELL POINT @ B-204 DRY - 40' DEEP - DRY DUST ON TRACER SAND -	
735	COLDCAST ON SITE - SAFETY MEETING - Recon B-204 - CASING / AUGERS	
752	COLD CAST TRACER - NO SAID HE CAN TAKE CARE OF DECON WATER DRUM A LEAK ON SITE & LET HIM KNOW HOW MUCH	
810	NO TRACE OF WATER ON CASING OR SURFACE B-204 GRANT W/ TRIP 1/8 TONNET GRANT	
840	MOVE TO B-201	
850	REGIME @ B-201 - (6" SOLID FLIGHT AUGERS SAMPLE 16-17	
900	HARD DRILLING & SAMPLING - MOVE TO B-104A - NO ACCESS TO B-104	
1000	START @ B-104A AUGER TO 16' SAMPLE 16-17.5'	
1010	SAMPLED DRUM A - CUTTINGS FROM B-201 & B-104A	
1030	MOVE TO B-203 - MARKED LOCATION DUE TO TRIP LINE & NEIGHB AUGER TO 12' SAMPLE AUGER TO 12' SAMPLE - MOVE TO B-202	
1130	START @ B-202 - AUGER TO 13' SAMPLE - AUGER TO 18' SAMPLE	
1230-1300	LUNCH & RECON & MOB RIG TO B-106A - DRILL TO 19' (2" SS) ODOR - IN SAMPLES - DRILL TO 25' LIMITED SAMPLE WATER IN SST TUBE -	
1410	SAMPLED DRUM B - CLEAN UP / CHIP UP 5 HOLES FROM TODAY - BOARSE PLUTONITE CHIPS & HYDRATED PATCH ALL HOLES W/ CONCRETE 3-DRUMS (1,2,3) FROM B-204/205 2-DRUMS (A&B) FROM 5 HOLES TODAY ~ 35 GALLONS DECON WATER FROM 204/205 (DRUM 4W) & ~35 GAL FROM TODAY (DRUM CW) LEFT NEAR MW-3	
1600	OFFSITE	Copy given to: Reported By:



Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

SOIL BORING LOG

B-104A

PROJ. NAME: LP Cloverdale

LOCATION: Cloverdale, CA

PROJ. NUMBER: 095107.209

GROUND ELEVATION: -

DRILLER: Clearheart Drilling

DEPTH OF BORING: 17.5 feet BGS

DRILLING METHOD: SFA

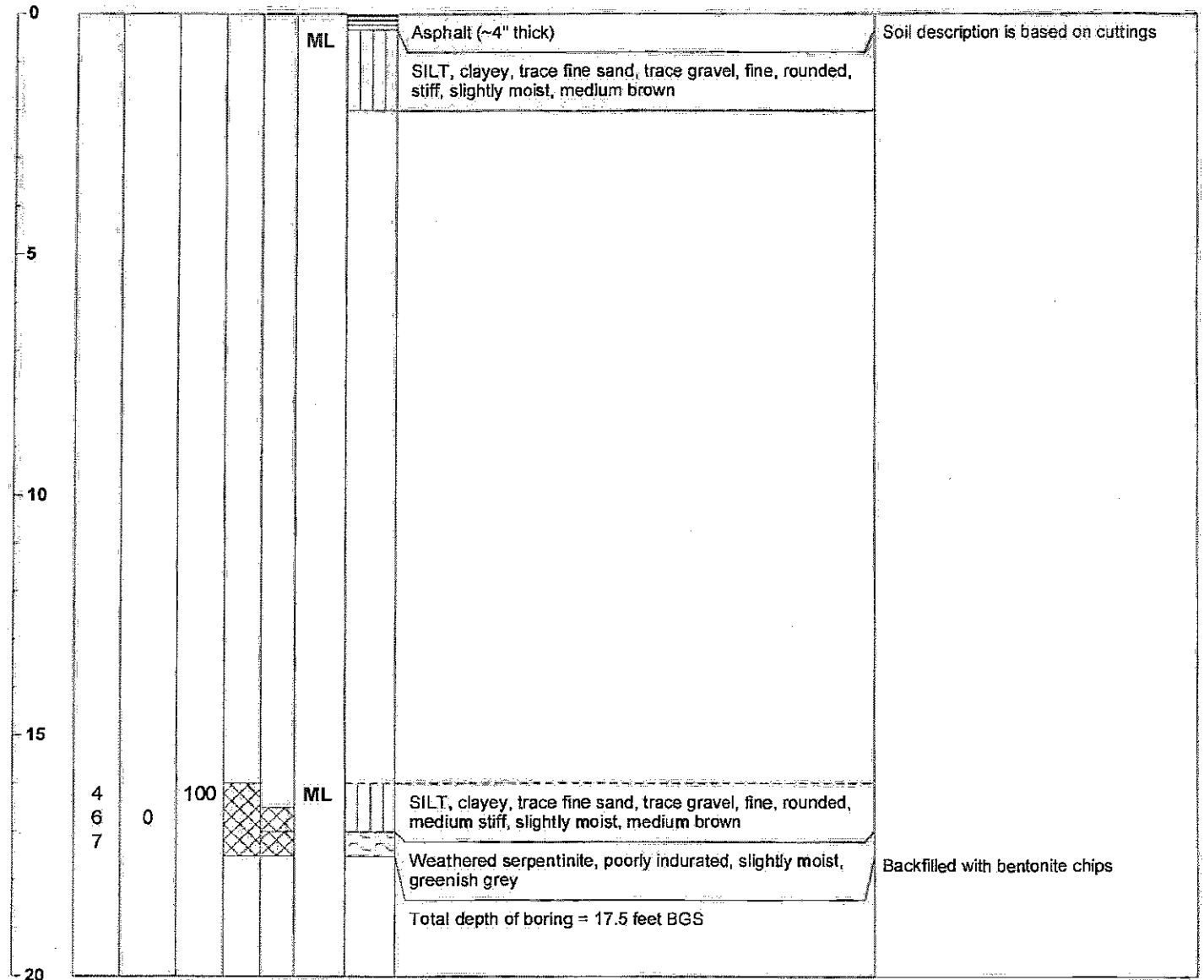
DEPTH TO FIRST WATER: -

SAMPLER TYPE: SPT

DATE: 7/23/10

LOGGED BY: R. Rueber

DEPTH (Feet BGS)	BLOW COUNT	SAMPLE				USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS
		OVA READING (ppm)	% RECOVERY	DRILLING	LABORATORY				





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SOIL BORING LOG
B-106A

PROJ. NAME: LP Cloverdale

LOCATION: Cloverdale, CA

PROJ. NUMBER: 095107.209

GROUND ELEVATION:--

DRILLER: Clearheart Drilling

DEPTH OF BORING: 25.5 feet BGS

DRILLING METHOD: SFA

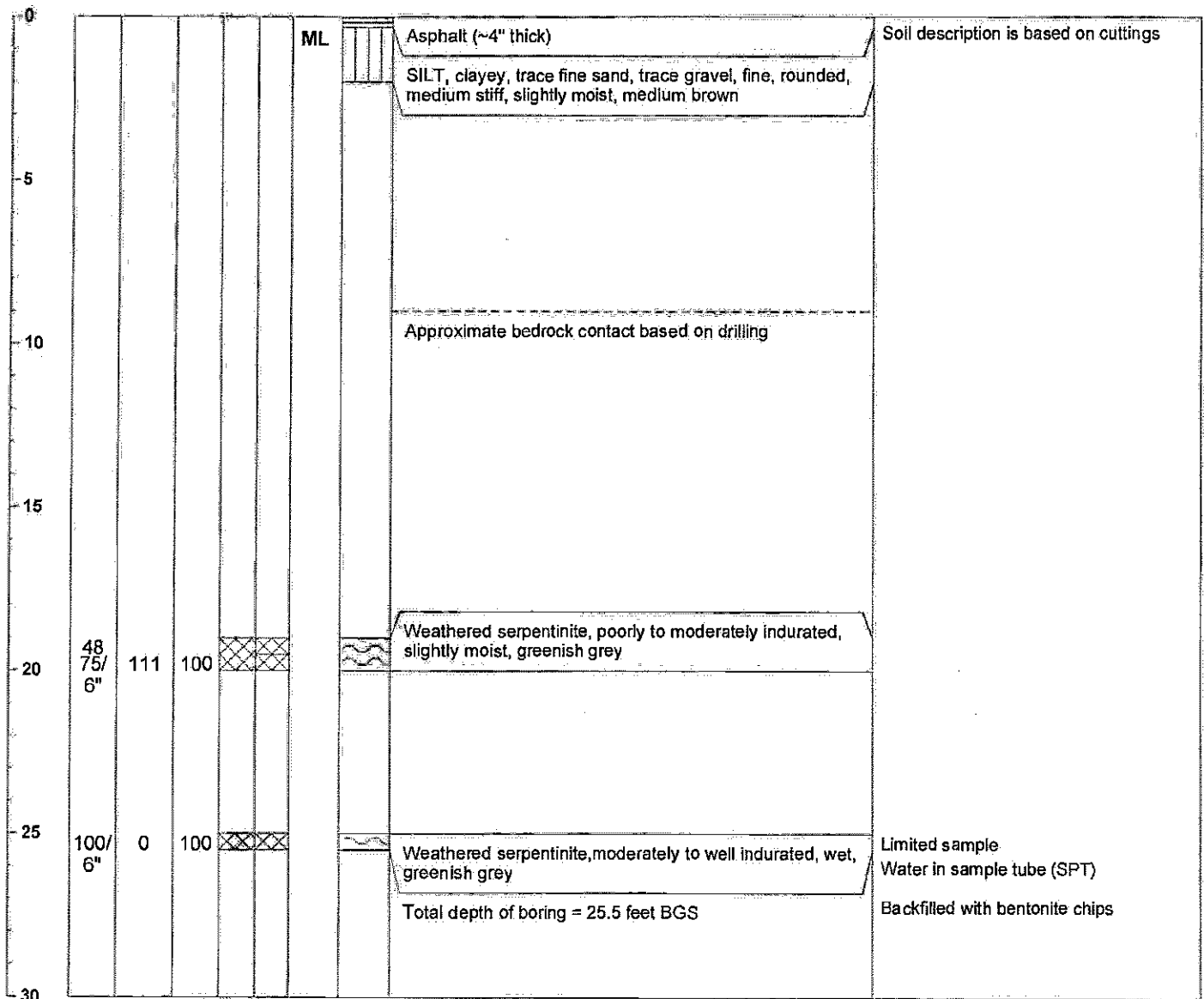
DEPTH TO FIRST WATER:--

SAMPLER TYPE: 2-inch Split Spoon/SPT

DATE: 7/23/10

LOGGED BY: R. Rueber

DEPTH (Feet BGS)	BLOW COUNT	SAMPLE				USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS
		OVA READING (ppm)	% RECOVERY	DRILLING	LABORATORY				





Consulting Engineers & Geologists, Inc.

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SOIL BORING LOG
B-201

PROJ. NAME: LP Cloverdale

LOCATION: Cloverdale, CA

PROJ. NUMBER: 095107.209

GROUND ELEVATION: --

DRILLER: Clearheart Drilling

DEPTH OF BORING: 17.5 feet BGS

DRILLING METHOD: SFA

DEPTH TO FIRST WATER: --

SAMPLER TYPE: SPT

DATE: 7/23/10

LOGGED BY: R. Rueber

DEPTH (Feet BGS)	BLOW COUNT	SAMPLE				USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS
		OVA READING (ppm)	% RECOVERY	DRILLING	LABORATORY				

0						ML	Asphalt (~4" thick)	Soil description is based on cuttings
							SILT, clayey, trace fine sand, few gravel, fine, rounded, stiff, slightly moist, medium brown	
5								
							Approximate bedrock contact based on drilling	Hard drilling from 6.0 to 17.0 feet BGS
10								
	80/ 5"	2	60	X	X		MUDSTONE or SANDSTONE, silt, fine sand, dry, light grey, sample pulverized from driving sampler	All soil needed for lab samples Description from shoe
15								
	100/ 6"	10	60	X	X		MUDSTONE or SANDSTONE, silt, fine sand, dry, light grey, sample pulverized from driving sampler	
							Total depth of boring = 17.5 feet BGS	Backfilled with bentonite chips
20								



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SOIL BORING LOG
B-202

PROJ. NAME: LP Cloverdale

LOCATION: Cloverdale, CA

PROJ. NUMBER: 095107.209

GROUND ELEVATION: --

DRILLER: Clearheart Drilling

DEPTH OF BORING: 19.5 feet BGS

DRILLING METHOD: SFA

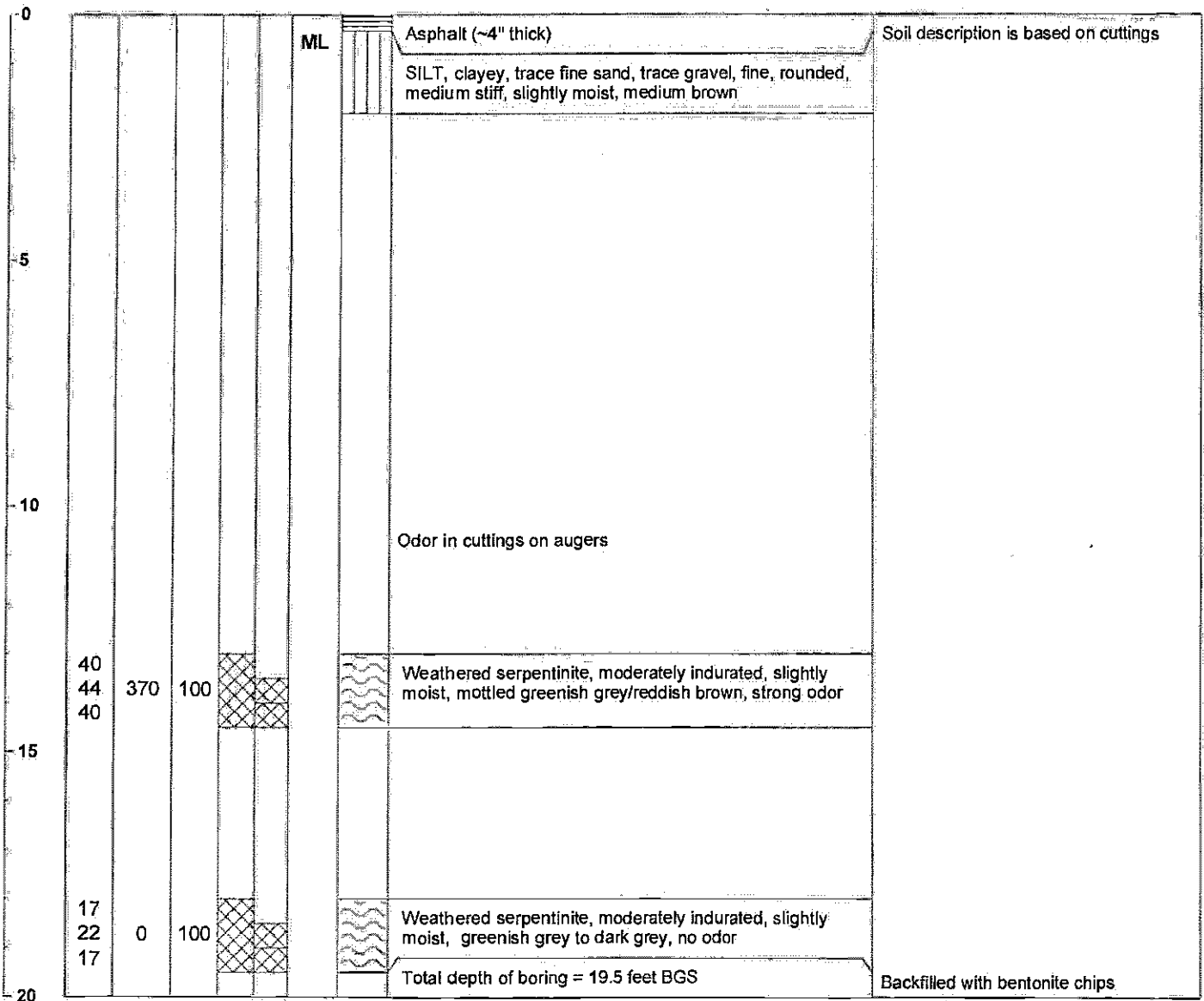
DEPTH TO FIRST WATER: --

SAMPLER TYPE: 2.0-inch Spilt Spoon

DATE: 7/23/10

LOGGED BY: R. Rueber

DEPTH (Feet BGS)	BLOW COUNT	SAMPLE				USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS
		OVA READING (ppm)	% RECOVERY	DRILLING	LABORATORY				





Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

SOIL BORING LOG

B-203

PROJ. NAME: LP Cloverdale

LOCATION: Cloverdale, CA

PROJ. NUMBER: 095107.209

GROUND ELEVATION: --

DRILLER: Clearheart Drilling

DEPTH OF BORING: 18.0 feet BGS

DRILLING METHOD: SFA

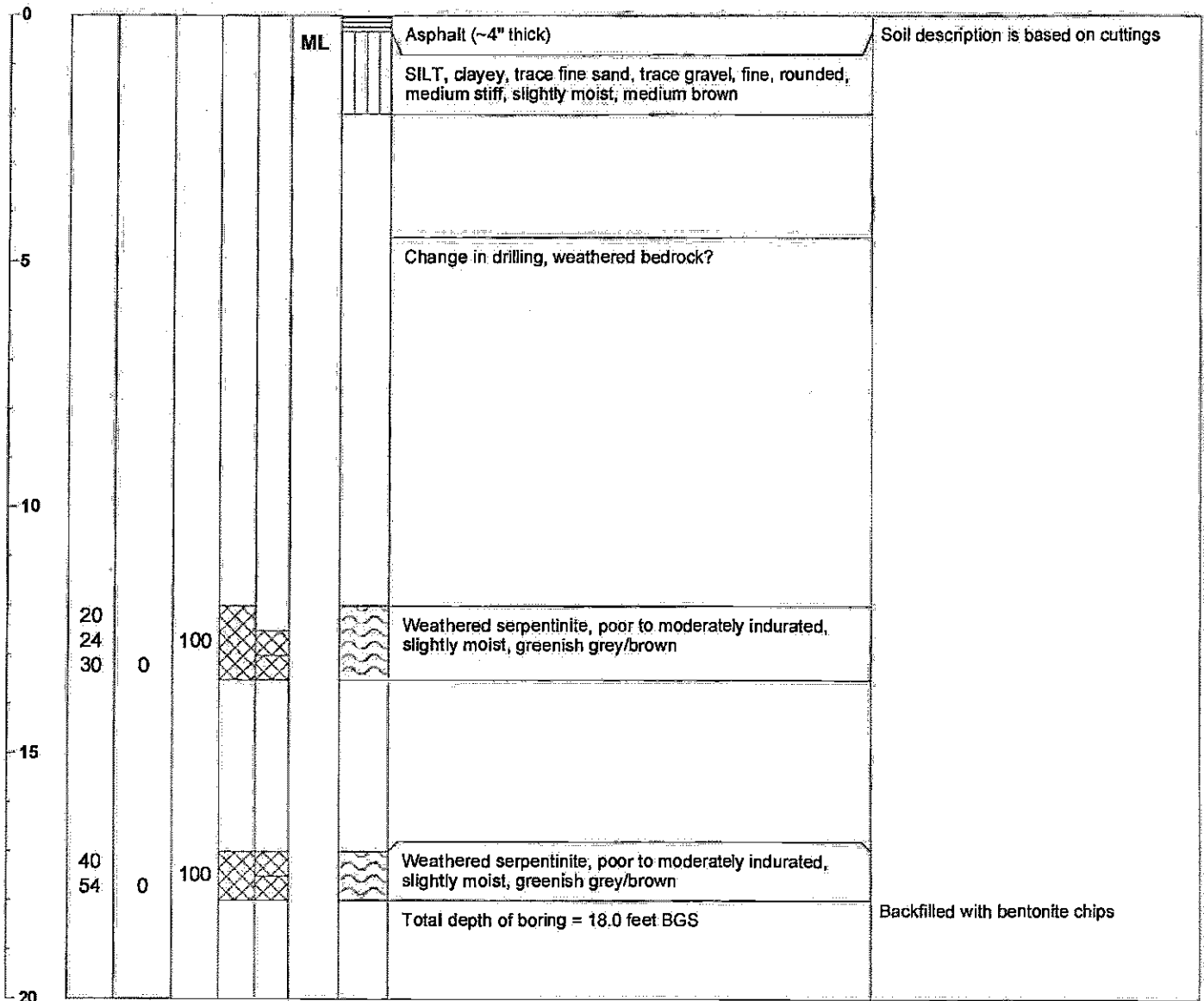
DEPTH TO FIRST WATER: --

SAMPLER TYPE: 2.0-inch Spilt Spoon

DATE: 7/23/10

LOGGED BY: R. Rueber

DEPTH (Feet BGS)	BLOW COUNT	SAMPLE				USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS
		OVA READING (ppm)	% RECOVERY	DRILLING	LABORATORY				





Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELL POINT LOG

B-204

PROJ. NAME: LP Cloverdale

LOCATION: Cloverdale, CA

PROJ. NUMBER: 095107.209

TOC ELEVATION: --

DRILLER: Clearheart Drilling

DEPTH OF BORING/WELL: 40.0 feet BGS

DRILLING METHOD: HSA

DEPTH TO FIRST WATER: --

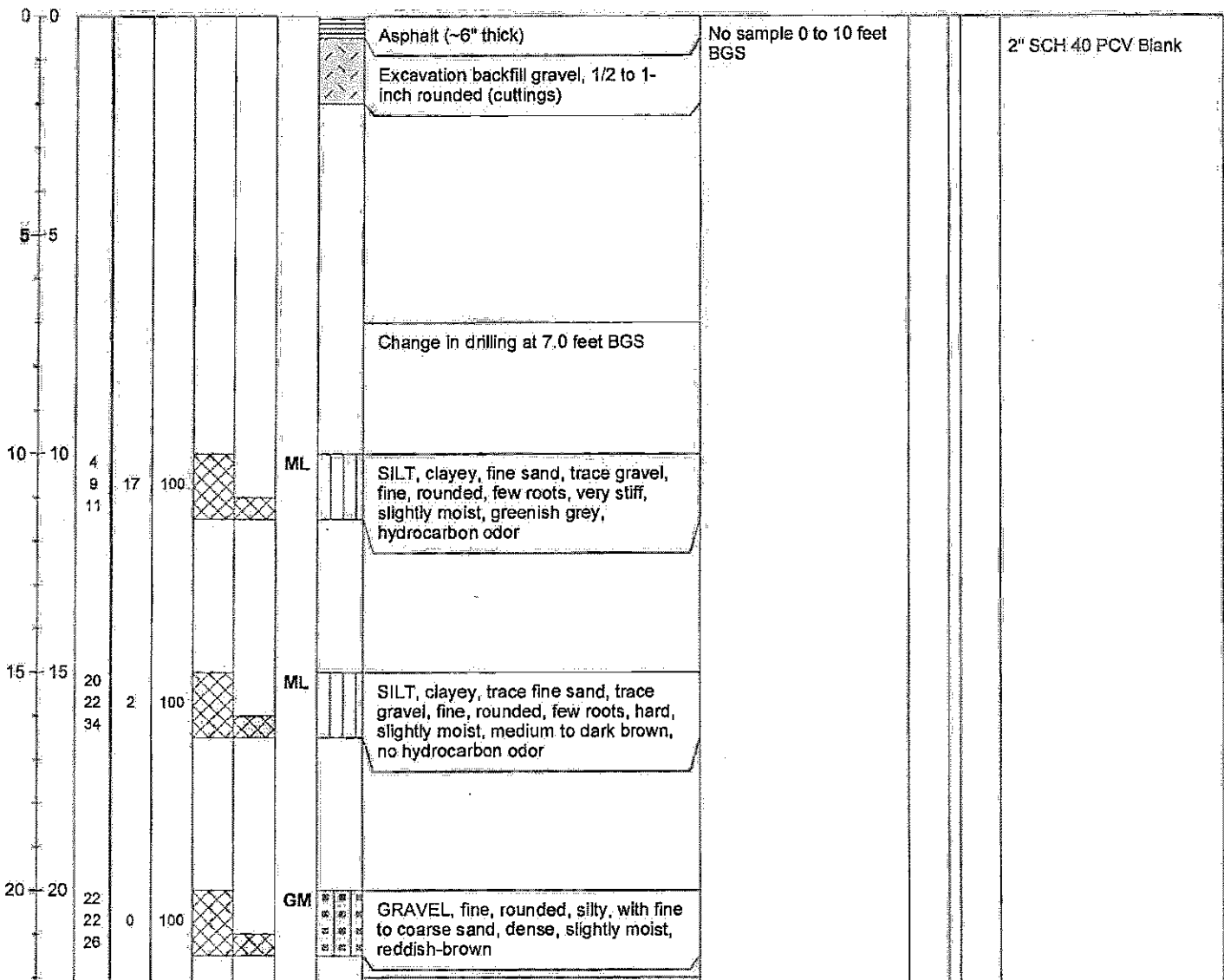
SAMPLER TYPE: 2-inch Split Spoon/SPT

SCREEN INTERVAL: 30-40 feet BGS

LOGGED BY: R. Rueber

DATE: 7/22/10

DEPTH (Feet BGS)	BLOW COUNT	SAMPLE				USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	WELL POINT CONSTRUCTION
		OVA READING (ppm)	RECOVERY (%)	DRILLING	LABORATORY					





Consulting Engineers & Geologists, Inc.

812 West Wabash, Eureka, CA ph. (707) 441-8855 fax. (707) 441-8877

WELL POINT LOG
B-204

PROJ. NAME: LP Cloverdale

LOCATION: Cloverdale, CA

PROJ. NUMBER: 095107.209

TOC ELEVATION: -

DRILLER: Clearheart Drilling

DEPTH OF BORING/WELL: 40.0 feet BGS

DRILLING METHOD: HSA

DEPTH TO FIRST WATER: --

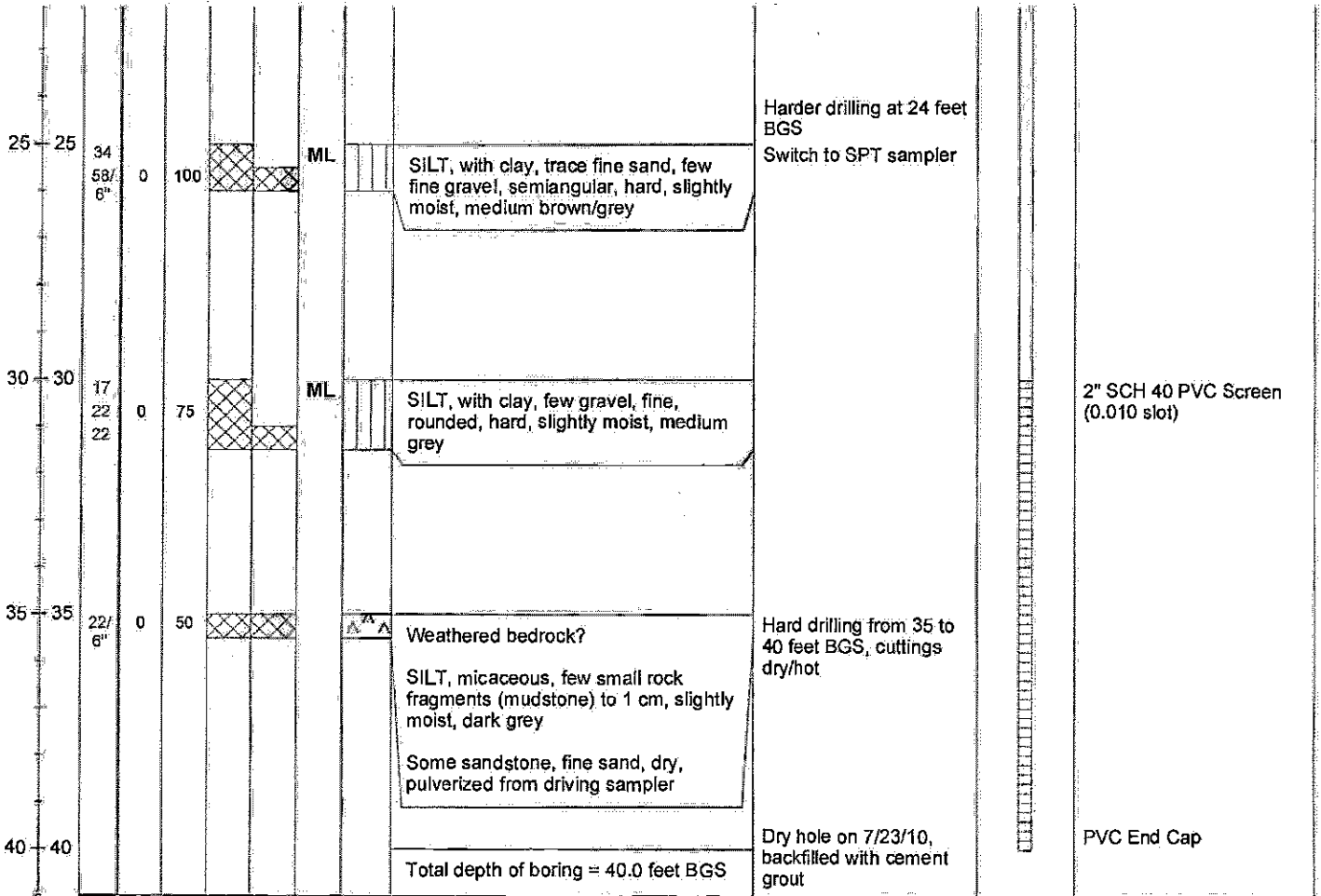
SAMPLER TYPE: 2-inch Split Spoon/SPT

SCREEN INTERVAL: 30-40 feet BGS

LOGGED BY: R. Rueber

DATE: 7/22/10

DEPTH (feet BGS)	BLOW COUNT	SAMPLE			USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	WELL POINT CONSTRUCTION
		OVA READING (ppm)	RECOVERY (%)	DRILLING					





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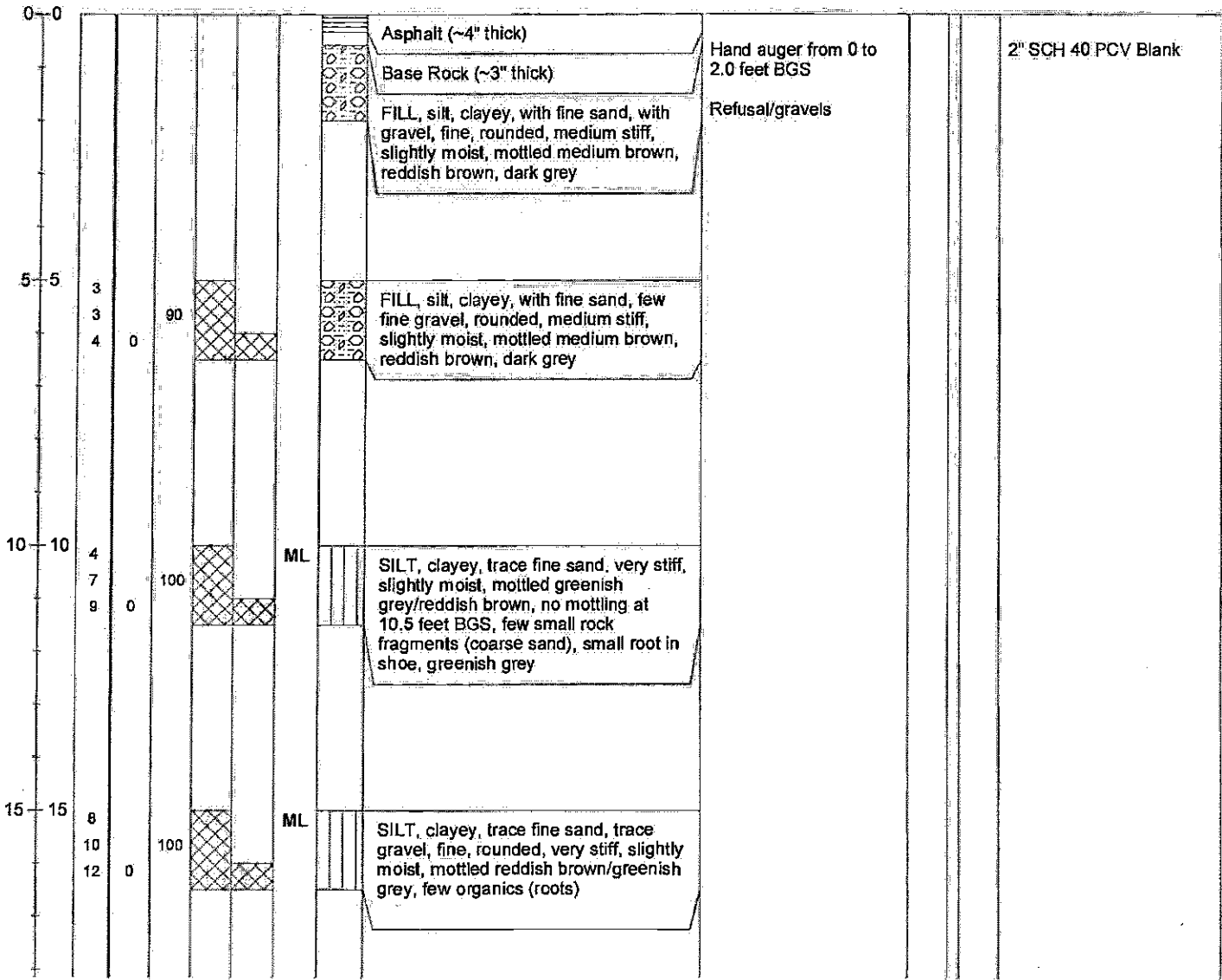
PROJ. NAME: LP Cloverdale
 PROJ. NUMBER: 095107.209
 DRILLER: Clearheart Drilling
 DRILLING METHOD: HSA
 SAMPLER TYPE: 2-inch Split Spoon
 LOGGED BY: R. Rueber

LOCATION: Cloverdale, CA
 TOC ELEVATION: --
 DEPTH OF BORING/WELL: 35.0 feet BGS
 DEPTH TO FIRST WATER: --
 SCREEN INTERVAL: 30-40 feet BGS
 DATE: 7/22/10

WELL POINT LOG

B-205

DEPTH (Feet BGS)	BLOW COUNT	SAMPLE			USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	WELL POINT CONSTRUCTION
		OVA READING (ppm)	RECOVERY (%)	DRILLING					





Consulting Engineers & Geologists, Inc.

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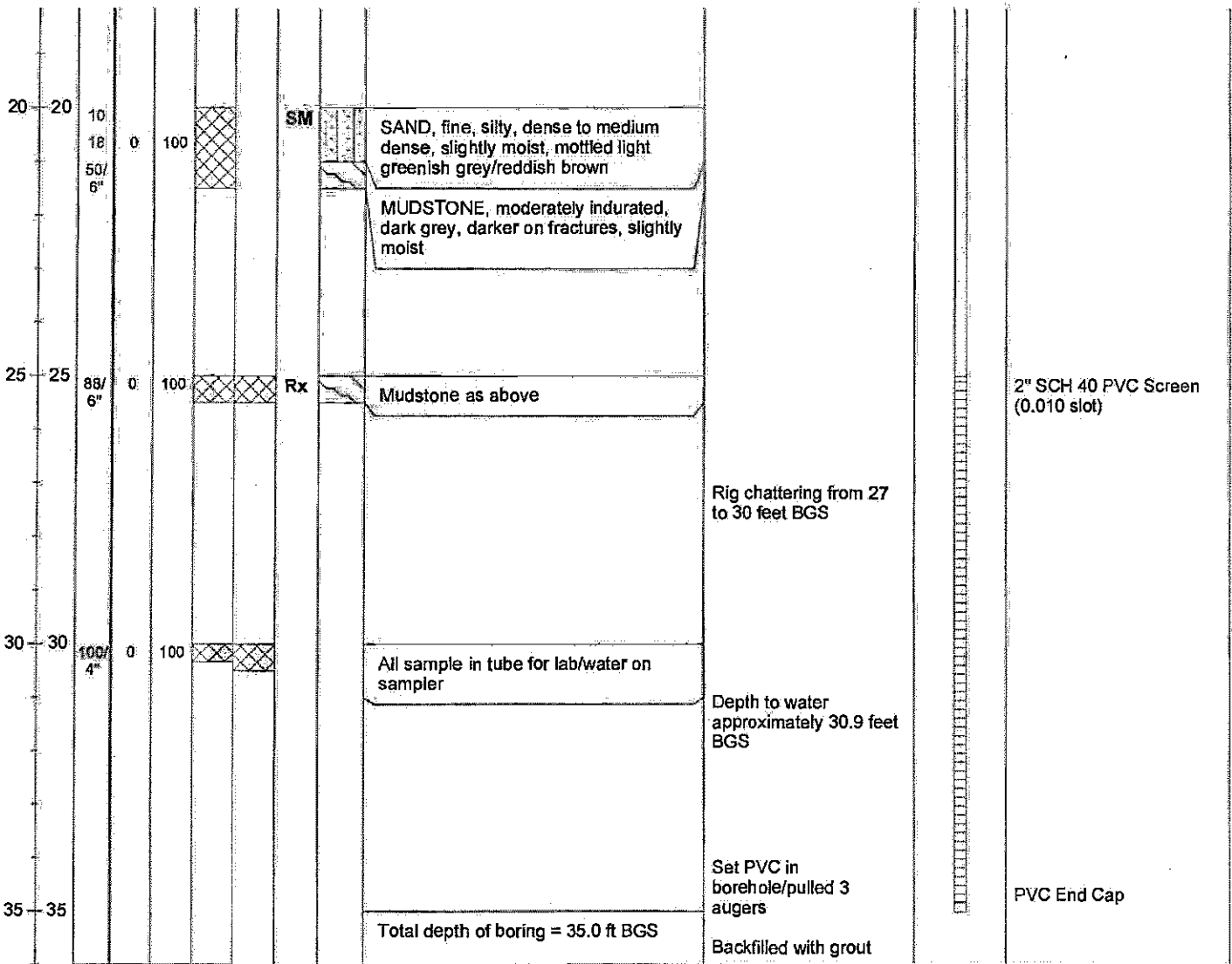
PROJ. NAME: LP Cloverdale
 PROJ. NUMBER: 095107.209
 DRILLER: Clearheart Drilling
 DRILLING METHOD: HSA
 SAMPLER TYPE: 2-inch Split Spoon
 LOGGED BY: R. Rueber

LOCATION: Cloverdale, CA
 TOC ELEVATION: --
 DEPTH OF BORING/WELL: 35.0 feet BGS
 DEPTH TO FIRST WATER: --
 SCREEN INTERVAL: 30-40 feet BGS
 DATE: 7/22/10

WELL POINT LOG

B-205

DEPTH (Feet BGS)	BLOW COUNT	SAMPLE			USCS	LITHOLOGY PATTERN	SOIL DESCRIPTION	REMARKS	WELL POINT CONSTRUCTION
		OVA READING (ppm)	RECOVERY (%)	DRILLING					



Appendix C

Laboratory Analytical Reports



August 6, 2010

FAL Project ID: 6261

Mr. Roland Rueber
SHN Engineering
812 W. Wabash Avenue
Eureka, CA 95501-2138

Dear Mr. Rueber,

Enclosed are the results for Frontier Analytical Laboratory project **6261**. This corresponds to your **LP Cloverdale** project and project number **095107.209**. Nine soil samples were received on 7/27/2010 in good condition. These samples were extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. The TEQ for your samples has been calculated using the 1998 World Health Organization's Toxic Equivalency Factors. SHN Engineering requested a turnaround time of fifteen business days for project **6261**.

The following report consists of an Analytical Data section and a Sample Receipt section. The Analytical Data section contains our project-sample tracking log and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and a sample photo. The attached results are specifically for the samples referenced in this report only. This report, along with Frontier Analytical Laboratory's basic Excel EDD and the Geotracker EDD, has been sent to you via email. A hardcopy of this report will not be sent to you unless specifically requested. These results meet all NELAC requirements and shall not be reproduced except in full.

If you have any questions regarding project **6261**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

A handwritten signature in black ink, appearing to read "Bradley B. Silverbush".

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillside Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

000001 of 000010



Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 6261

Received on: 07/27/2010

Project Due: 08/18/2010 Storage: R1

FAL Sample ID	Dup.	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6261-001-SA	0	LP Cloverdale	B-201@12'	EPA 8290 D/F	Soil	07/23/2010	09:20 am	08/24/2010
6261-002-SA	0	LP Cloverdale	B-201@17'	EPA 8290 D/F	Soil	07/23/2010	09:40 am	08/24/2010
6261-003-SA	0	LP Cloverdale	B-104A@17'	EPA 8290 D/F	Soil	07/23/2010	10:20 am	08/24/2010
6261-004-SA	0	LP Cloverdale	B-203@13'	EPA 8290 D/F	Soil	07/23/2010	10:55 am	08/24/2010
6261-005-SA	0	LP Cloverdale	B-203@17.5'	EPA 8290 D/F	Soil	07/23/2010	11:10 am	08/24/2010
6261-006-SA	0	LP Cloverdale	B-202@14'	EPA 8290 D/F	Soil	07/23/2010	11:50 am	08/24/2010
6261-007-SA	0	LP Cloverdale	B-202@19'	EPA 8290 D/F	Soil	07/23/2010	12:05 pm	08/24/2010
6261-008-SA	0	LP Cloverdale	B-106A@19.5'	EPA 8290 D/F	Soil	07/23/2010	01:40 pm	08/24/2010
6261-009-SA	0	LP Cloverdale	B-106A@25'	EPA 8290 D/F	Soil	07/23/2010	02:00 pm	08/24/2010

EPA Method 8290
PCDD/F



FAL ID: 6261-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEQ: 0.00

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.148			0.0262				
1,2,3,7,8-PeCDD	ND	0.313			0.0442				
1,2,3,4,7,8-HxCDD	ND	0.428			0.0486				
1,2,3,6,7,8-HxCDD	ND	0.480			0.0586	Total TCDD	ND	0.148	
1,2,3,7,8,9-HxCDD	ND	0.469			0.0529	Total PeCDD	ND	0.313	
1,2,3,4,6,7,8-HpCDD	ND	0.788			0.0954	Total HxCDD	ND	0.480	
OCDD	ND	1.71			0.154	Total HpCDD	ND	0.788	
2,3,7,8-TCDF	ND	0.0927			0.0205				
1,2,3,7,8-PeCDF	ND	0.231			0.0298				
2,3,4,7,8-PeCDF	ND	0.246			0.0313				
1,2,3,4,7,8-HxCDF	ND	0.306			0.0308				
1,2,3,6,7,8-HxCDF	ND	0.308			0.0317				
2,3,4,6,7,8-HxCDF	ND	0.355			0.0341				
1,2,3,7,8,9-HxCDF	ND	0.447			0.0387	Total TCDF	ND	0.0927	
1,2,3,4,6,7,8-HpCDF	ND	0.459			0.0418	Total PeCDF	ND	0.246	
1,2,3,4,7,8,9-HpCDF	ND	0.512			0.0429	Total HxCDF	ND	0.447	
OCDF	ND	1.48			0.105	Total HpCDF	ND	0.512	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	78.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	65.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	89.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	85.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	63.2	40.0 - 135	
13C-OCDD	48.8	40.0 - 135	
13C-2,3,7,8-TCDF	79.2	40.0 - 135	
13C-1,2,3,7,8-PeCDF	67.6	40.0 - 135	
13C-2,3,4,7,8-PeCDF	66.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	94.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	89.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	84.8	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	83.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	68.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	72.2	40.0 - 135	
13C-OCDF	53.5	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	75.1	50.0 - 150
-------------------	------	------------

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]

Date: 8/2/10

Reviewed By: [Signature]

Date: 8/2/10

EPA Method 8290
PCDD/F



FAL ID: 6261-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: NA
Amount: 5.00 g

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: ng/ml

Acquired: 07-31-2010
1998 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.5	7.00 - 13.0	
1,2,3,7,8-PeCDD	50.7	35.0 - 65.0	
1,2,3,4,7,8-HxCDD	53.5	35.0 - 65.0	
1,2,3,6,7,8-HxCDD	52.5	35.0 - 65.0	
1,2,3,7,8,9-HxCDD	50.7	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDD	50.0	35.0 - 65.0	
OCDD	110	70.0 - 130	
2,3,7,8-TCDF	9.61	7.00 - 13.0	
1,2,3,7,8-PeCDF	49.2	35.0 - 65.0	
2,3,4,7,8-PeCDF	48.2	35.0 - 65.0	
1,2,3,4,7,8-HxCDF	47.2	35.0 - 65.0	
1,2,3,6,7,8-HxCDF	48.4	35.0 - 65.0	
2,3,4,6,7,8-HxCDF	47.9	35.0 - 65.0	
1,2,3,7,8,9-HxCDF	48.8	35.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	47.3	35.0 - 65.0	
1,2,3,4,7,8,9-HpCDF	47.2	35.0 - 65.0	
OCDF	102	70.0 - 130	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	72.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	95.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	90.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	68.4	40.0 - 135	
13C-OCDD	61.2	40.0 - 135	
13C-2,3,7,8-TCDF	84.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	72.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	73.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	97.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	96.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	92.6	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	93.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	73.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	79.2	40.0 - 135	
13C-OCDF	64.2	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 86.6 50.0 - 150

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: EJ

Date: 8/2/10

Reviewed By: J

Date: 8/10/10

EPA Method 8290
PCDD/F



FAL ID: 6261-001-SA
Client ID: B-201@12
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 5.10 g
% Solids: 93.51

iCal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 08-02-2010
1998 WHO TEQ: 0.00

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.327			0.0262				
1,2,3,7,8-PeCDD	ND	0.496			0.0442				
1,2,3,4,7,8-HxCDD	ND	0.671			0.0486				
1,2,3,6,7,8-HxCDD	ND	0.747			0.0586	Total TCDD	ND	0.328	
1,2,3,7,8,9-HxCDD	ND	0.731			0.0529	Total PeCDD	ND	0.496	
1,2,3,4,6,7,8-HpCDD	ND	1.49			0.0954	Total HxCDD	ND	0.747	
OCDD	ND	2.64			0.154	Total HpCDD	ND	1.49	
2,3,7,8-TCDF	ND	0.191			0.0205				
1,2,3,7,8-PeCDF	ND	0.387			0.0298				
2,3,4,7,8-PeCDF	ND	0.408			0.0313				
1,2,3,4,7,8-HxCDF	ND	0.502			0.0308				
1,2,3,6,7,8-HxCDF	ND	0.481			0.0317				
2,3,4,6,7,8-HxCDF	ND	0.536			0.0341				
1,2,3,7,8,9-HxCDF	ND	0.698			0.0387	Total TCDF	ND	0.191	
1,2,3,4,6,7,8-HpCDF	ND	0.836			0.0418	Total PeCDF	ND	0.408	
1,2,3,4,7,8,9-HpCDF	ND	1.10			0.0429	Total HxCDF	ND	0.698	
OCDF	ND	2.18			0.105	Total HpCDF	ND	1.10	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.2	40.0 - 135	
13C-1,2,3,7,8-PeCDD	70.0	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	90.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	85.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	68.6	40.0 - 135	
13C-OCDD	53.9	40.0 - 135	
13C-2,3,7,8-TCDF	80.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	69.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	72.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	88.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	92.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	85.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	82.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	77.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	72.2	40.0 - 135	
13C-OCDF	57.1	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 87.3 50.0 - 150

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]

Date: 8/2/10

Reviewed By: [Signature]

Date: 8/2/10

EPA Method 8290
PCDD/F



FAL ID: 6261-002-SA
Client ID: B-201@17
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 5.05 g
% Solids: 93.25

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEQ: 48.4

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.176		-	0.0262				
1,2,3,7,8-PeCDD	ND	0.403		-	0.0442				
1,2,3,4,7,8-HxCDD	2.57		J	0.257	0.0486				
1,2,3,6,7,8-HxCDD	68.1			6.81	0.0586	Total TCDD	6.36		*
1,2,3,7,8,9-HxCDD	6.35			0.635	0.0529	Total PeCDD	28.0		*
1,2,3,4,6,7,8-HpCDD	2180			21.8	0.0954	Total HxCDD	244		*
OCDD	19600			1.96	0.154	Total HpCDD	3390		*
2,3,7,8-TCDF	ND	0.0834		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.394		-	0.0298				
2,3,4,7,8-PeCDF	1.04		J	0.520	0.0313				
1,2,3,4,7,8-HxCDF	10.7			1.07	0.0308				
1,2,3,6,7,8-HxCDF	6.27			0.627	0.0317				
2,3,4,6,7,8-HxCDF	16.5			1.65	0.0341				
1,2,3,7,8,9-HxCDF	1.87		J	0.187	0.0387	Total TCDF	21.5		D,M
1,2,3,4,6,7,8-HpCDF	1190			11.9	0.0418	Total PeCDF	56.5		D,M
1,2,3,4,7,8,9-HpCDF	34.1			0.341	0.0429	Total HxCDF	1650		D,M
OCDF	6660			0.666	0.105	Total HpCDF	5700		*

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	77.9	40.0 - 135	
13C-1,2,3,7,8-PeCDD	61.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	103	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	100	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	82.2	40.0 - 135	
13C-OCDD	73.1	40.0 - 135	
13C-2,3,7,8-TCDF	73.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	65.1	40.0 - 135	
13C-2,3,4,7,8-PeCDF	57.8	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	108	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	102	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	80.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	83.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	86.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	78.8	40.0 - 135	
13C-OCDF	76.9	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 69.5 50.0 - 150

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 8/10/10

Reviewed By: [Signature]
Date: 8/10/10

EPA Method 8290
PCDD/F



FAL ID: 6261-003-SA
Client ID: B-104A@17
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 5.04 g
% Solids: 58.84

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEQ: 7.10

Compound	Conc	DL	Qual	1998 WHO Teq	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.255		-	0.0262				
1,2,3,7,8-PeCDD	3.41		J	3.41	0.0442				
1,2,3,4,7,8-HxCDD	8.30			0.830	0.0486				
1,2,3,6,7,8-HxCDD	10.9			1.09	0.0586	Total TCDD	242		
1,2,3,7,8,9-HxCDD	3.39		J	0.339	0.0529	Total PeCDD	80.2		
1,2,3,4,6,7,8-HpCDD	137			1.37	0.0954	Total HxCDD	118		
OCDD	80.0			0.00800	0.154	Total HpCDD	162		
2,3,7,8-TCDF	ND	0.0732			0.0205				
1,2,3,7,8-PeCDF	ND	0.139			0.0298				
2,3,4,7,8-PeCDF	ND	0.148			0.0313				
1,2,3,4,7,8-HxCDF	ND	0.236			0.0308				
1,2,3,6,7,8-HxCDF	0.443		J	0.0443	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.262			0.0341				
1,2,3,7,8,9-HxCDF	ND	0.321			0.0387	Total TCDF	1.04		
1,2,3,4,6,7,8-HpCDF	0.645		J	0.00645	0.0418	Total PeCDF	0.913		J
1,2,3,4,7,8,9-HpCDF	ND	0.339			0.0429	Total HxCDF	1.42		J
OCDF	3.55		J	0.000355	0.105	Total HpCDF	2.28		J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	69.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	95.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	85.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	75.3	40.0 - 135	
13C-OCDD	59.4	40.0 - 135	
13C-2,3,7,8-TCDF	80.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	67.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	68.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	95.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	90.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	90.4	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	91.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	77.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	79.2	40.0 - 135	
13C-OCDF	61.3	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 82.2 50.0 - 150

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 8/6/10

Reviewed By: [Signature]
Date: 8/6/10

EPA Method 8290
PCDD/F



FAL ID: 6261-004-SA
Client ID: B-203@13
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 4.99 g
% Solids: 63.97

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEQ: 0.00

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.132			0.0262				
1,2,3,7,8-PeCDD	ND	0.257			0.0442				
1,2,3,4,7,8-HxCDD	ND	0.376			0.0486				
1,2,3,6,7,8-HxCDD	ND	0.415			0.0586	Total TCDD	ND	0.132	
1,2,3,7,8,9-HxCDD	ND	0.408			0.0529	Total PeCDD	ND	0.257	
1,2,3,4,6,7,8-HpCDD	ND	0.769			0.0954	Total HxCDD	ND	0.415	
OCDD	ND	2.37			0.154	Total HpCDD	ND	0.769	
2,3,7,8-TCDF	ND	0.0730			0.0205				
1,2,3,7,8-PeCDF	ND	0.175			0.0298				
2,3,4,7,8-PeCDF	ND	0.169			0.0313				
1,2,3,4,7,8-HxCDF	ND	0.266			0.0308				
1,2,3,6,7,8-HxCDF	ND	0.282			0.0317				
2,3,4,6,7,8-HxCDF	ND	0.298			0.0341				
1,2,3,7,8,9-HxCDF	ND	0.396			0.0387	Total TCDF	ND	0.0730	
1,2,3,4,6,7,8-HpCDF	ND	0.414			0.0418	Total PeCDF	ND	0.175	
1,2,3,4,7,8,9-HpCDF	ND	0.508			0.0429	Total HxCDF	ND	0.396	
OCDF	ND	1.28			0.105	Total HpCDF	ND	0.508	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	80.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	91.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	88.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	72.1	40.0 - 135	
13C-OCDD	57.5	40.0 - 135	
13C-2,3,7,8-TCDF	81.5	40.0 - 135	
13C-1,2,3,7,8-PeCDF	77.3	40.0 - 135	
13C-2,3,4,7,8-PeCDF	81.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	96.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	93.6	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	91.0	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	89.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	74.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	74.9	40.0 - 135	
13C-OCDF	59.1	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	84.0	50.0 - 150
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]

Date: 8/2/10

Reviewed By: [Signature]

Date: 8/16/10

EPA Method 8290
PCDD/F



FAL ID: 6261-005-SA
Client ID: B-203@17.5
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 5.01 g
% Solids: 81.07

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEQ: 0.00

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.213	-	-	0.0262				
1,2,3,7,8-PeCDD	ND	0.330	-	-	0.0442				
1,2,3,4,7,8-HxCDD	ND	0.366	-	-	0.0486				
1,2,3,6,7,8-HxCDD	ND	0.400	-	-	0.0586	Total TCDD	ND	0.213	
1,2,3,7,8,9-HxCDD	ND	0.395	-	-	0.0529	Total PeCDD	ND	0.330	
1,2,3,4,6,7,8-HpCDD	ND	1.10	-	-	0.0954	Total HxCDD	ND	0.400	
OCDD	ND	2.70	-	-	0.154	Total HpCDD	ND	1.10	
2,3,7,8-TCDF	ND	0.0914	-	-	0.0205				
1,2,3,7,8-PeCDF	ND	0.241	-	-	0.0298				
2,3,4,7,8-PeCDF	ND	0.246	-	-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.222	-	-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.225	-	-	0.0317				
2,3,4,6,7,8-HxCDF	ND	0.256	-	-	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.302	-	-	0.0387	Total TCDF	ND	0.0914	
1,2,3,4,6,7,8-HpCDF	ND	0.360	-	-	0.0418	Total PeCDF	ND	0.246	
1,2,3,4,7,8,9-HpCDF	ND	0.429	-	-	0.0429	Total HxCDF	ND	0.302	
OCDF	ND	1.11	-	-	0.105	Total HpCDF	ND	0.429	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	77.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	69.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	85.1	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	81.7	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	61.0	40.0 - 135	
13C-OCDD	43.9	40.0 - 135	
13C-2,3,7,8-TCDF	74.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	64.0	40.0 - 135	
13C-2,3,4,7,8-PeCDF	66.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	91.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	86.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	81.6	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	83.4	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	64.8	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	66.7	40.0 - 135	
13C-OCDF	47.6	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 78.5 50.0 - 150

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]

Date: 8/2/10

Reviewed By: [Signature]

Date: 8/2/10

EPA Method 8290
PCDD/F



FAL ID: 6261-006-SA
Client ID: B-202@14
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 5.04 g
% Solids: 88.79

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEC: 557

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.272		-	0.0262				
1,2,3,7,8-PeCDD	4.67		J	4.67	0.0442				
1,2,3,4,7,8-HxCDD	34.0			3.40	0.0486				
1,2,3,6,7,8-HxCDD	3210			321	0.0586	Total TCDD	17.8		
1,2,3,7,8,9-HxCDD	705			70.5	0.0529	Total PeCDD	97.8		
1,2,3,4,6,7,8-HpCDD	13300			133	0.0954	Total HxCDD	13900		
OCDD	46000			4.60	0.154	Total HpCDD	17900		
2,3,7,8-TCDF	ND	0.0823		-	0.0205				
1,2,3,7,8-PeCDF	0.705		J	0.0352	0.0298				
2,3,4,7,8-PeCDF	0.909		J	0.454	0.0313				
1,2,3,4,7,8-HxCDF	12.4			1.24	0.0308				
1,2,3,6,7,8-HxCDF	10.8			1.08	0.0317				
2,3,4,6,7,8-HxCDF	22.5			2.25	0.0341				
1,2,3,7,8,9-HxCDF	6.57			0.657	0.0387	Total TCDF	27.7		D,M
1,2,3,4,6,7,8-HpCDF	1290			12.9	0.0418	Total PeCDF	28.3		D,M
1,2,3,4,7,8,9-HpCDF	36.4			0.364	0.0429	Total HxCDF	1880		D,M
OCDF	6760			0.676	0.105	Total HpCDF	7020		

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	66.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	57.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	74.6	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	76.9	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	65.9	40.0 - 135	
13C-OCDD	46.5	40.0 - 135	
13C-2,3,7,8-TCDF	64.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	56.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	54.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	79.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	81.4	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	59.6	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	60.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	57.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	54.6	40.0 - 135	
13C-OCDF	46.7	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 62.2 50.0 - 150

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]

Date: 8/2/10

Reviewed By: [Signature]

Date: 8/10/10

EPA Method 8290
PCDD/F



FAL ID: 6261-007-SA
Client ID: B-202@19
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 5.02 g
% Solids: 87.96

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEQ: 5.49

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.284		-	0.0262				
1,2,3,7,8-PeCDD	2.16		J	2.16	0.0442				
1,2,3,4,7,8-HxCDD	3.38		J	0.338	0.0486				
1,2,3,6,7,8-HxCDD	16.7			1.67	0.0586	Total TCDD	162		
1,2,3,7,8,9-HxCDD	4.11		J	0.411	0.0529	Total PeCDD	80.3		
1,2,3,4,6,7,8-HpCDD	89.9			0.899	0.0954	Total HxCDD	134		
OCDD	65.3			0.00653	0.154	Total HpCDD	115		
2,3,7,8-TCDF	ND	0.110		-	0.0205				
1,2,3,7,8-PeCDF	ND	0.253		-	0.0298				
2,3,4,7,8-PeCDF	ND	0.376		-	0.0313				
1,2,3,4,7,8-HxCDF	ND	0.523		-	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.544		-	0.0317				
2,3,4,6,7,8-HxCDF	ND	1.04		-	0.0341				
1,2,3,7,8,9-HxCDF	ND	1.16		-	0.0387	Total TCDF	0.516		J
1,2,3,4,6,7,8-HpCDF	ND	1.18		-	0.0418	Total PeCDF	ND	0.376	
1,2,3,4,7,8,9-HpCDF	ND	1.95		-	0.0429	Total HxCDF	ND	1.16	
OCDF	5.17		J	0.000517	0.105	Total HpCDF	2.52		J

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	60.7	40.0 - 135	
13C-1,2,3,7,8-PeCDD	51.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	103	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	99.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	55.0	40.0 - 135	
13C-OCDD	21.2	40.0 - 135	A
13C-2,3,7,8-TCDF	54.6	40.0 - 135	
13C-1,2,3,7,8-PeCDF	53.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	39.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	116	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	109	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	60.6	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	67.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	73.7	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	55.1	40.0 - 135	
13C-OCDF	30.1	40.0 - 135	A

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 63.4 50.0 - 150

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 8/2/10

Reviewed By: [Signature]
Date: 8/6/10

EPA Method 8290
PCDD/F



FAL ID: 6261-008-SA
Client ID: B-106A@19.5
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 5.01 g
% Solids: 88.18

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEQ: 149

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.228		-	0.0262				
1,2,3,7,8-PeCDD	1.65		J	1.65	0.0442				
1,2,3,4,7,8-HxCDD	10.5			1.05	0.0486				
1,2,3,6,7,8-HxCDD	514			51.4	0.0586	Total TCDD	16.4		
1,2,3,7,8,9-HxCDD	136			13.6	0.0529	Total PeCDD	119		
1,2,3,4,6,7,8-HpCDD	5210			52.1	0.0954	Total HxCDD	2680		
OCDD	40100			4.01	0.154	Total HpCDD	8250		
2,3,7,8-TCDF	ND	0.0701		-	0.0205				
1,2,3,7,8-PeCDF	0.575		J	0.0288	0.0298				
2,3,4,7,8-PeCDF	0.548		J	0.274	0.0313				
1,2,3,4,7,8-HxCDF	13.8			1.38	0.0308				
1,2,3,6,7,8-HxCDF	7.73			0.773	0.0317				
2,3,4,6,7,8-HxCDF	24.0			2.40	0.0341				
1,2,3,7,8,9-HxCDF	2.70		J	0.270	0.0387	Total TCDF	27.9		D,M
1,2,3,4,6,7,8-HpCDF	1840			18.4	0.0418	Total PeCDF	35.4		D,M
1,2,3,4,7,8,9-HpCDF	46.2			0.462	0.0429	Total HxCDF	2350		D,M
OCDF	9710			0.971	0.105	Total HpCDF	9150		

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.1	40.0 - 135	
13C-1,2,3,7,8-PeCDD	64.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	93.3	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	93.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	93.1	40.0 - 135	
13C-OCDD	102	40.0 - 135	
13C-2,3,7,8-TCDF	83.7	40.0 - 135	
13C-1,2,3,7,8-PeCDF	68.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	64.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	101	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	98.9	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	87.2	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	89.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	85.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	84.0	40.0 - 135	
13C-OCDF	90.8	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	85.1	50.0 - 150
-------------------	------	------------

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]

Date: 8/2/10

Reviewed By: [Signature]

Date: 8/2/10

EPA Method 8290
PCDD/F



FAL ID: 6261-009-SA
Client ID: B-106A@25
Matrix: Soil
Batch No: X2070

Date Extracted: 07-29-2010
Date Received: 07-27-2010
Amount: 5.06 g
% Solids: 81.83

ICal: PCDDFAL3-5-12-10
GC Column: DB5
Units: pg/g

Acquired: 07-31-2010
1998 WHO TEQ: 3.35

Compound	Conc	DL	Qual	1998 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.141			0.0262				
1,2,3,7,8-PeCDD	ND	0.276			0.0442				
1,2,3,4,7,8-HxCDD	ND	0.626			0.0486				
1,2,3,6,7,8-HxCDD	11.9			1.19	0.0586	Total TCDD	1.22		
1,2,3,7,8,9-HxCDD	3.23		J	0.323	0.0529	Total PeCDD	10.0		
1,2,3,4,6,7,8-HpCDD	123			1.23	0.0954	Total HxCDD	107		
OCDD	740			0.0740	0.154	Total HpCDD	228		
2,3,7,8-TCDF	ND	0.0569			0.0205				
1,2,3,7,8-PeCDF	ND	0.226			0.0298				
2,3,4,7,8-PeCDF	ND	0.241			0.0313				
1,2,3,4,7,8-HxCDF	0.599		J	0.0599	0.0308				
1,2,3,6,7,8-HxCDF	ND	0.239			0.0317				
2,3,4,6,7,8-HxCDF	0.855		J	0.0855	0.0341				
1,2,3,7,8,9-HxCDF	ND	0.334			0.0387	Total TCDF	2.08		
1,2,3,4,6,7,8-HpCDF	34.8			0.348	0.0418	Total PeCDF	0.993		J
1,2,3,4,7,8,9-HpCDF	1.78		J	0.0178	0.0429	Total HxCDF	59.2		
OCDF	180			0.0180	0.105	Total HpCDF	155		

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	81.0	40.0 - 135	
13C-1,2,3,7,8-PeCDD	72.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	96.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	92.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	69.7	40.0 - 135	
13C-OCDD	64.3	40.0 - 135	
13C-2,3,7,8-TCDF	80.8	40.0 - 135	
13C-1,2,3,7,8-PeCDF	69.5	40.0 - 135	
13C-2,3,4,7,8-PeCDF	66.2	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	108	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	99.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	84.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	91.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	75.6	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	80.5	40.0 - 135	
13C-OCDF	66.2	40.0 - 135	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 78.7 50.0 - 150

- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]

Date: 8/2/10

Reviewed By: [Signature]

Date: 8/16/10



Frontier Analytical Laboratory
5172 Hillside Circle
El Dorado Hills, CA 95762
Tel: 916-934-0900
Fax: 916-934-0999

FAL USE ONLY

Laboratory Project No: 6261
Temperature: 2 °C

Chain of Custody
www.frontieranalytical.com

Please Print in Pen Page 1 of 1

CLIENT INFORMATION		INVOICE INFORMATION (if different from client info)		PROJECT INFORMATION													
Company Name: <u>SHS</u>	Company Name: <u>LP</u>	FAL Quote #:		P.O. #:													
Contact Name: <u>BOYD RUSSEL</u>	Contact Name: <u>APRIL WIGRAM</u>	Project #:	<u>0951670209</u>	Project Name:	<u>LP CLOUTIER DRUG</u>												
Address: <u>818 WILKINSON STREET SACRAMENTO</u>	Address: <u>414 UNION STREET WASHVILLE</u>	TAT (business days):	<input checked="" type="checkbox"/> 15 <input type="checkbox"/> 10 <input type="checkbox"/> 5 <input type="checkbox"/> 3* (None)	*FAL must agree with price and RUSHTAT in writing.													
Phone: <u>916-441-8855</u> Fax: <u>916-441-8877</u>	Phone: <u>615-736-5751</u> Fax: <u>615-611-0872</u>																
Email: <u>RUSSEL@SHS-CAIGLE.COM</u>	Email: <u>APRIL@WIGRAM&LPCORP.COM</u>																
REPORT INFORMATION		REPORT DISTRIBUTION (email only is preferred)		ADDITIONAL INSTRUCTIONS													
Report Level: <input checked="" type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	<input type="checkbox"/> Hardcopy																
<input checked="" type="checkbox"/> EDD: <input type="checkbox"/> FAL Basic <input checked="" type="checkbox"/> Geotracker <input type="checkbox"/> Custom: Contact FAL	<input type="checkbox"/> CD (pdf including EDDs if requested)																
<input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Email (pdf including EDDs if requested)																
<input type="checkbox"/> California State Drinking Water Form																	
System #: _____	Source #: _____																
Sampler: _____	Employers: _____																
Sample ID	Date Collected	Time	Matrix	# of containers	HPA 1613**	DLM 02.0	EPA 8280**	Appendix IX	EPA TO-9/A	EPA 23/23A	EPA 1668	FAL 15	Other	**CONGENERS	**TEQ	Remarks	
1 B-201 @ 17'	7-23-10	9:20	SOIL		X									<input type="checkbox"/> 2,3,7,8-TCDD only	<input checked="" type="checkbox"/> 1998 WHO		
2 B-201 @ 17'		9:40			X									<input type="checkbox"/> 2,3,7,8-TCDD/F only	<input type="checkbox"/> 2005 WHO		
3 B-104 A @ 17'		10:20			X									<input type="checkbox"/> PCDD/F (Cl ₄ -Cl ₆)	<input type="checkbox"/> Other		
4 B-203 @ 13.5'		10:55			X												
5 B-203 @ 17.5'		11:10			X												
6 B-203 @ 14'		11:50			X												
7 B-202 @ 19'		12:05			X												
8 B-106 A @ 19.5'		13:40			X												
9 B-106 A @ 25'		14:10			X												
10																	
11																	
12																	
13																	
14																	
15																	
Relinquished by: (Signature and Printed Name)		Date	Time	Received by: (Signature and Printed Name)	Date	Time											
<u>Robert Ruan</u>		<u>7-26-10</u>	<u>13:00</u>	<u>Katelyn Sar</u>	<u>7-27-10</u>	<u>9:00</u>											

Samples will be disposed of 90 days after simple receipt unless other arrangements have been made and agreed upon in writing.

Client understands that all terms described in the proposals, quotations, and/or the general terms provided in the current FAL price schedules will be followed. FAL reserves the rights to terminate its service or withhold delivery of reports, if in FAL's sole discretion the terms of the project have been broken.



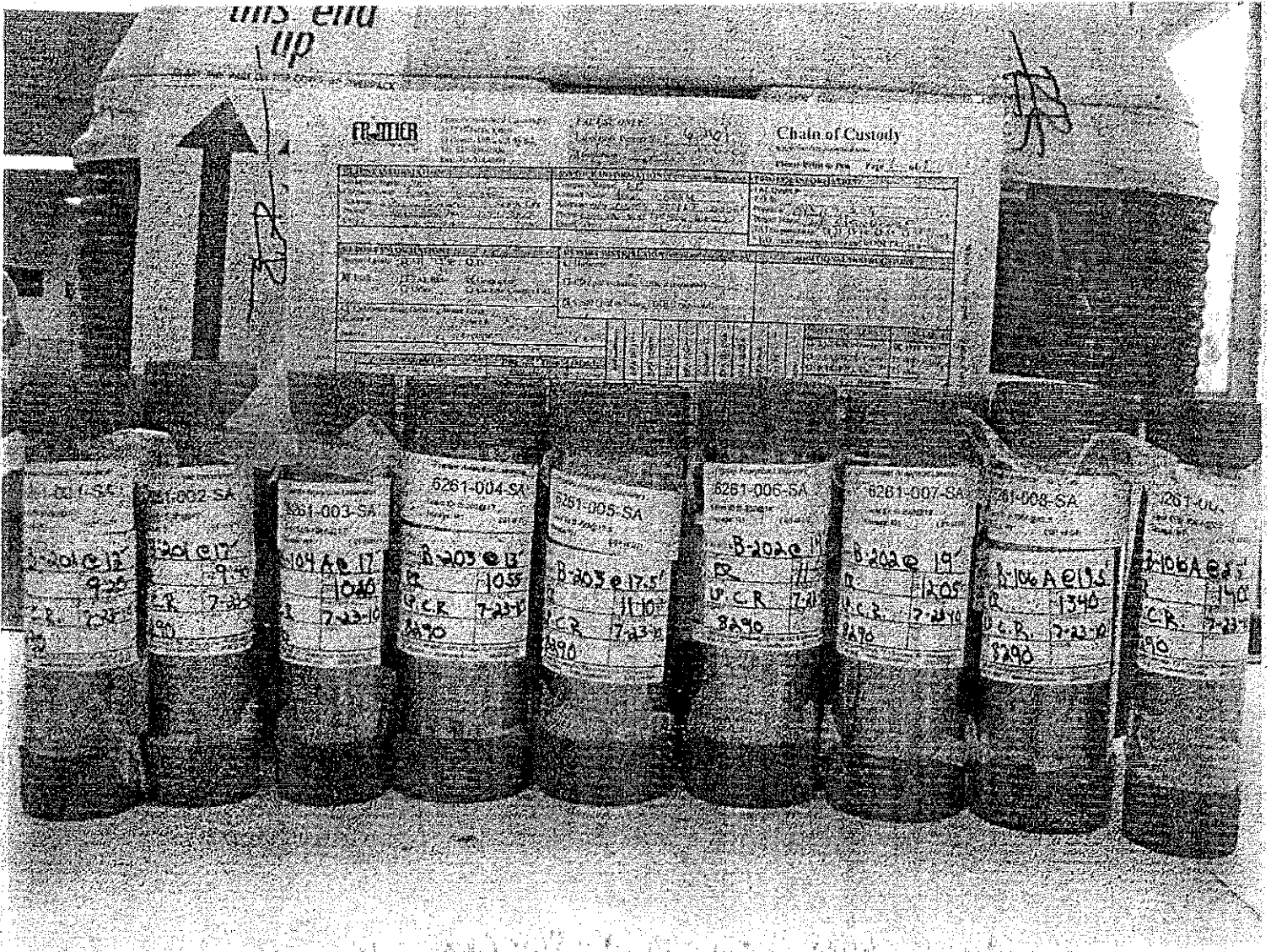
Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: 6261

Client:	SHN Engineering
Client Project ID:	LP Cloverdale
Date Received:	07/27/2010
Time Received:	09:40 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	9
Duplicates:	0
Storage Location:	R1

Method of Delivery:	Fed-Ex
Tracking Number:	798885235216
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	2
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	08/24/2010
Adequate Sample Volume	Yes
Anomalies or additional comments:	



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

August 16, 2010

Roland Rueber, Project Manager
SHN
812 W. Wabash
Eureka, CA 95501

Dear Mr. Rueber:

Included are the results from the testing of material submitted on July 27, 2010 from the LP Cloverdale 095107.209, F&BI 007276 project. There are 17 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
NAA0816R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 27, 2010 by Friedman & Bruya, Inc. from the SHN LP Cloverdale 095107.209, F&BI 007276 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SHN</u>
007276-01	B-205@6'
007276-02	B-205@11'
007276-03	B-205@16'
007276-04	B-205@21'
007276-05	B-205@25'
007276-06	B-205@30'
007276-07	B-204@11'
007276-08	B-204@16'
007276-09	B-204@21'
007276-10	B-204@25.5'
007276-11	B-204@31'
007276-12	B-204@35'
007276-13	B-205

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
 Date Received: 07/27/10
 Project: LP Cloverdale 095107.209, F&BI 007276
 Date Extracted: 07/28/10
 Date Analyzed: 07/29/10 and 07/30/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR MTBE, BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE
 USING EPA METHODS 8021B AND 8015M**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>MTBE</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u> (C ₆ -C ₁₀)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-132)
B-205@6' 007276-01	<0.1	<0.02	<0.02	<0.02	<0.06	<2	95
B-205@11' 007276-02	<0.1	<0.02	<0.02	<0.02	<0.06	<2	83
B-205@16' 007276-03	<0.1	<0.02	<0.02	<0.02	<0.06	<2	97
B-205@21' 007276-04	<0.1	<0.02	<0.02	<0.02	<0.06	<2	88
B-205@25' 007276-05	<0.1	<0.02	<0.02	<0.02	<0.06	<2	88
B-204@11' 007276-07	<0.1	<0.02	<0.02	0.79	2.1	14	102
B-204@16' 007276-08	<0.1	<0.02	<0.02	<0.02	<0.06	<2	89
B-204@21' 007276-09	<0.1	<0.02	<0.02	<0.02	<0.06	<2	90
B-204@25.5' 007276-10	<0.1	<0.02	<0.02	<0.02	<0.06	<2	86
B-204@31' 007276-11	<0.1	<0.02	<0.02	<0.02	<0.06	<2	70

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
 Date Received: 07/27/10
 Project: LP Cloverdale 095107.209, F&BI 007276
 Date Extracted: 07/28/10
 Date Analyzed: 07/29/10 and 07/30/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR MTBE, BENZENE, TOLUENE, ETHYLBENZENE,
 XYLENES AND TPH AS GASOLINE**

USING EPA METHODS 8021B AND 8015M

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>MTBE</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u> (C ₆ -C ₁₀)	<u>Surrogate</u> (% Recovery) (Limit 50-132)
B-204@35' 007276-12	<0.1	<0.02	<0.02	<0.02	<0.06	<2	79
Method Blank 00-1123 MB	<0.1	<0.02	<0.02	<0.02	<0.06	<2	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
Date Received: 07/27/10
Project: LP Cloverdale 095107.209, F&BI 007276
Date Extracted: 07/29/10
Date Analyzed: 07/29/10

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR MTBE, BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING EPA METHODS 8021B AND 8015M
Results Reported as ug/L (ppb)**

<u>Sample ID</u> Laboratory ID	<u>MTBE</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range (C₆-C₁₀)</u>	<u>Surrogate (% Recovery) (Limit 52-124)</u>
B-205 007276-13	<5	<0.5	<0.5	<0.5	<1.5	<50	78
Method Blank 00-1125 MB	<5	<0.5	<0.5	<0.5	<1.5	<50	79

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
Date Received: 07/27/10
Project: LP Cloverdale 095107.209, F&BI 007276
Date Extracted: 08/02/10
Date Analyzed: 08/06/10 and 08/07/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

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>Surrogate</u> (% Recovery) (Limit 50-150)
B-205@6' 007276-01	400	96
B-205@11' 007276-02	<10	86
B-205@16' 007276-03	<10	97
B-205@21' 007276-04	<10	93
B-205@25' 007276-05	47	97
B-204@11' 007276-07	11 x	87
B-204@16' 007276-08	<10	96
B-204@21' 007276-09	<10	86
B-204@25.5' 007276-10	31	86
B-204@31' 007276-11	65	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
Date Received: 07/27/10
Project: LP Cloverdale 095107.209, F&BI 007276
Date Extracted: 08/02/10
Date Analyzed: 08/06/10 and 08/07/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> <u>Laboratory ID</u>	<u>Diesel Range</u> <u>(C₁₀-C₂₆)</u>	<u>Surrogate</u> <u>(% Recovery)</u> <u>(Limit 50-150)</u>
B-204@35 007276-12	100	92
Method Blank 00-1140 MB	<10	87

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
Date Received: 07/27/10
Project: LP Cloverdale 095107.209, F&BI 007276
Date Extracted: 07/27/10
Date Analyzed: 07/28/10

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C10-C25)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
B-205 007276-13	25 x	101
Method Blank 00-1119 MB2	<10	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
 Date Received: 07/27/10
 Project: LP Cloverdale 095107.209, F&BI 007276
 Date Extracted: 08/02/10
 Date Analyzed: 08/06/10, 08/07/10, and 08/11/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
 FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
 USING EPA METHOD 8015M**

Results Reported on a Dry Weight Basis
 Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
B-205@6' 007276-01	1,800	78
B-205@11' 007276-02	<50	55
B-205@16' 007276-03	<50	60
B-205@21' 007276-04	<50	149
B-205@25' 007276-05	<50	75
B-204@11' 007276-07	<50	54
B-204@16' 007276-08	<50	52
B-204@21' 007276-09	<50	150
B-204@25.5' 007276-10	<50	61
B-204@31' 007276-11	110 x	71

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
Date Received: 07/27/10
Project: LP Cloverdale 095107.209, F&BI 007276
Date Extracted: 08/02/10
Date Analyzed: 08/06/10, 08/07/10, and 08/11/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
B-204@35 007276-12	170 x	85
Method Blank 00-1140 MB	<50	87

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10
Date Received: 07/27/10
Project: LP Cloverdale 095107.209, F&BI 007276
Date Extracted: 07/27/10
Date Analyzed: 07/28/10

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M

Results Reported as $\mu\text{g/L}$ (ppb)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 51-134)
B-205 007276-13	<50	101
Method Blank 00-1119 MR2	<50	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10

Date Received: 07/27/10

Project: LP Cloverdale 095107.209, F&BI 007276

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR MTBE, BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHODS 8021B AND 8015M**

Laboratory Code: 007276-12 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
MTBE	mg/kg (ppm)	<0.1	<0.1	nm
Benzene	mg/kg (ppm)	<0.02	<0.02	nm
Toluene	mg/kg (ppm)	<0.02	<0.02	nm
Ethylbenzene	mg/kg (ppm)	<0.02	<0.02	nm
Xylenes	mg/kg (ppm)	<0.06	<0.06	nm
Gasoline	mg/kg (ppm)	<2	<2	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
MTBE	mg/kg (ppm)	0.5	105	70-130
Benzene	mg/kg (ppm)	0.5	110	66-121
Toluene	mg/kg (ppm)	0.5	110	72-128
Ethylbenzene	mg/kg (ppm)	0.5	103	69-132
Xylenes	mg/kg (ppm)	1.5	114	69-131
Gasoline	mg/kg (ppm)	10	87	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10

Date Received: 07/27/10

Project: LP Cloverdale 095107.209, F&BI 007276

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 007244-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
MTBE	ug/L (ppb)	<5	<5	nm
Benzene	ug/L (ppb)	<0.5	<0.5	nm
Toluene	ug/L (ppb)	<0.5	<0.5	nm
Ethylbenzene	ug/L (ppb)	<0.5	<0.5	nm
Xylenes	ug/L (ppb)	<1.5	<1.5	nm
Gasoline	ug/L (ppb)	<50	<50	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
MTBE	ug/L (ppb)	50	80	50-150
Benzene	ug/L (ppb)	50	95	72-119
Toluene	ug/L (ppb)	50	101	71-113
Ethylbenzene	ug/L (ppb)	50	99	72-114
Xylenes	ug/L (ppb)	150	97	72-113
Gasoline	ug/L (ppb)	1,000	92	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10

Date Received: 07/27/10

Project: LP Cloverdale 095107.209, F&BI 007276

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL USING EPA METHOD 8015M**

Laboratory Code: 007276-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel	mg/kg (ppm)	5,000	<50	92	89	73-135	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel	mg/kg (ppm)	5,000	101	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10

Date Received: 07/27/10

Project: LP Cloverdale 095107.209, F&BI 007276

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL USING EPA METHOD 8015M

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel	ug/L (ppb)	2,500	102	100	58-134	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10

Date Received: 07/27/10

Project: LP Cloverdale 095107.209, F&BI 007276

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M**

Laboratory Code: 007276-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Motor Oil	mg/kg (ppm)	500	<50	109	113	50-150	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Motor Oil	mg/kg (ppm)	500	103	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/16/10

Date Received: 07/27/10

Project: LP Cloverdale 095107.209, F&BI 007276

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS
MOTOR OIL USING EPA METHOD 8015M

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Motor Oil	ug/L (ppb)	2,500	114	114	70-130	0

FRIEDMAN & BRUYA, INC.

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.

Al - 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.

007276

SAMPLE CHAIN OF CUSTODY

ME 07/27/10

V/CB/008

Send Report To

Company: SHN - Bechtel Builders

Address: 312 W. WABASH

City, State, ZIP: SEATTLE, WA 98101

Phone # 206-441-9555 Fax # 206-441-9877

SAMPLERS (signature) *[Signature]*

PROJECT NAME/NO.
LP 260022+CE

PO#

REMARKS: INVOICE TO
APRIL 2009 - 2009
714 UNION STREET, SEATTLE, WA
ASSAULT TO 37219

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	MTBE		TPH-MERCURY
B-20506	01	7/22/10	9:50	SURF	1	X	X	X	X	X	X	X	X	Used
B-20507	02		10:00		1	X	X	X	X	X	X	X	X	Geotech
B-20508	03		10:05		1	X	X	X	X	X	X	X	X	EDF
B-20509	04		10:15		1	X	X	X	X	X	X	X	X	
B-20510	05		10:25		1	X	X	X	X	X	X	X	X	
B-20511	06		10:50		1	X	X	X	X	X	X	X	X	← HOLD
B-20512	07		14:00		1	X	X	X	X	X	X	X	X	
B-20513	08		14:05		1	X	X	X	X	X	X	X	X	
B-20514	09		14:20		1	X	X	X	X	X	X	X	X	
B-20515	10		14:30		1	X	X	X	X	X	X	X	X	

SIGNATURE: *[Signature]*

Relinquished by: *[Signature]*

Received by: *[Signature]*

Relinquished by:

Received by:

PRINT NAME: Nhan Pham

COMPANY: SHN

DATE: 7/26/10

TIME: 1:30

7/27/10 09:30

Samples received at 5 °C

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 288-5044
FORMS\COC\COC.DOC

007276

SAMPLE CHAIN OF CUSTODY ME 0 + 12 + 110

11/13/05

Send Report To

Company SITA - ROYAL BROS

Address 812 W. WASH

City, State, ZIP SEATTLE, WA 98101

Phone # 206-441-5555 Fax # 206-441-5877

SAMPLERS (signature) [Signature] Page # 2 of 2

TURNAROUND TIME
 Standard (2 Weeks)
 RUSH
 Rush charges authorized by:

SAMPLE DISPOSAL
 Dispose after 30 days
 Return samples
 Will call with instructions

PROJECT NAME/NO. LP CLOVERLEAF PO #
C95107-209

REMARKS

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED						Notes	
						TPH-Diesel	TPH-Gasoline	PTX by 8021B	VOCs by 8260	SVOCs by 8270	HFS		MTR SCAL
B-204 E 31"	11	7-22-10	1450	Soil	1	X	X	X			X	X	None
B-204 E 35"	12	7-22-10	1520		1	X	X	X			X	X	CRACKER
B-205	13	7-22-10	1240	Water	17	X	X	X			X	X	PDF

SIGNATURE: [Signature] PRINT NAME: Nhan Phan COMPANY: FeBT DATE: 7/27/10 TIME: 0930

Relinquished by: [Signature]

Received by: [Signature]

Relinquished by:

Received by: [Signature] at 5 °C

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

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

August 23, 2010

Roland Rueber, Project Manager
SHN
812 W. Wabash
Eureka, CA 95501

Dear Mr. Rueber:

Included are the results from the testing of material submitted on July 27, 2010 from the LP Cloverdale 095107.209, F&BI 007277 project. There are 16 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
NAA0823R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 27, 2010 by Friedman & Bruya, Inc. from the SHN LP Cloverdale 095107.209, F&BI 007277 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SHN</u>
007277-01	B-201@12'
007277-02	B-201@17'
007277-03	B-104A@16.5'
007277-04	B-203@12.5'
007277-05	B-203@17'
007277-06	B-202@13.5'
007277-07	B-202@18.5'
007277-08	B-106A@19'
007277-09	B-106A@25'

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/10
Date Received: 07/27/10
Project: LP Cloverdale 095107.209, F&BI 007277
Date Extracted: 07/29/10
Date Analyzed: 07/30/10 and 08/12/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS
AS STODDARD SOLVENT
USING EPA METHOD 8015M**
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Stoddard Solvent Range</u> (C ₈ -C ₁₁)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 53-144)
B-201@12' 007277-01	<10	113
B-201@17' 007277-02	<10	111
B-104A@16.5' 007277-03	<10	108
B-203@12.5' 007277-04	<10	108
B-203@17' 007277-05	<10	108
B-202@13.5' 007277-06	350	109
B-202@18.5' 007277-07	<10	107
B-106A@19' 007277-08	39	113
B-106A@25' 007277-09	<10	108
Method Blank 00-1139 MB	<10	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	B-201@12'	Client:	SHN
Date Received:	07/27/10	Project:	LP Cloverdale 095107.209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	007277-01
Date Analyzed:	08/11/10	Data File:	081107.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	68	10	178
Phenol-d6	69	10	175
2,4,6-Tribromophenol	74	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID: B-201@17
Date Received: 07/27/10
Date Extracted: 08/02/10
Date Analyzed: 08/11/10
Matrix: Soil
Units: mg/kg (ppm)

Client: SHN
Project: LP Cloverdale 095107.209, F&BI 007277
Lab ID: 007277-02
Data File: 081108.D
Instrument: GCMS3
Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	81	10	178
Phenol-d6	83	10	175
2,4,6-Tribromophenol	83	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID: B-104A@16.5'
 Date Received: 07/27/10
 Date Extracted: 08/02/10
 Date Analyzed: 08/11/10
 Matrix: Soil
 Units: mg/kg (ppm)

Client: SHN
 Project: LP Cloverdale 095107.209, F&BI 007277
 Lab ID: 007277-03
 Data File: 081109.D
 Instrument: GCMS3
 Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	91	10	178
Phenol-d6	85	10	175
2,4,6-Tribromophenol	84	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	B-203@12.5	Client:	SHN
Date Received:	07/27/10	Project:	LP Cloverdale 095107.209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	007277-04
Date Analyzed:	08/11/10	Data File:	081112.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	71	10	178
Phenol-d6	70	10	175
2,4,6-Tribromophenol	70	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	B-203@17*	Client:	SHN
Date Received:	07/27/10	Project:	LP Gloverdale 095107.209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	007277-05
Date Analyzed:	08/11/10	Data File:	081113.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	67	10	178
Phenol-d6	73	10	175
2,4,6-Tribromophenol	75	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	B-202@13.5	Client:	SHN
Date Received:	07/27/10	Project:	LP Cloverdale 095107,209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	007277-06
Date Analyzed:	08/11/10	Data File:	081114.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	26 J	10	178
Phenol-d6	309 J, ip	10	175
2,4,6-Tribromophenol	90	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	0.44
Pentachlorophenol	1.5 ve

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	B-202@13.5'	Client:	SHN
Date Received:	07/27/10	Project:	LP Cloverdale 095107.209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	007277-06 1/10
Date Analyzed:	08/13/10	Data File:	081306.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	31	10	178
Phenol-d6	142	10	175
2,4,6-Tribromophenol	82	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<2
Pentachlorophenol	0.91 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	B-202@18.5'	Client:	SHN
Date Received:	07/27/10	Project:	LP Cloverdale 095107.209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	007277-07
Date Analyzed:	08/11/10	Data File:	081116.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	75	10	178
Phenol-d6	76	10	175
2,4,6-Tribromophenol	83	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	E-106A@19	Client:	SHN
Date Received:	07/27/10	Project:	LP Cloverdale 095107.209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	007277-08
Date Analyzed:	08/11/10	Data File:	081117.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	47	10	178
Phenol-d6	56	10	176
2,4,6-Tribromophenol	83	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	0.26

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	B-106A@25'	Client:	SHN
Date Received:	07/27/10	Project:	LP Cloverdale 095107.209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	007277-09
Date Analyzed:	08/11/10	Data File:	081115.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	92	10	178
Phenol-d6	89	10	175
2,4,6-Tribromophenol	82	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SHN
Date Received:	Not Applicable	Project:	LP Cloverdale 095107.209, F&BI 007277
Date Extracted:	08/02/10	Lab ID:	00-1154 mb
Date Analyzed:	08/11/10	Data File:	081106.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	84	10	178
Phenol-d6	90	10	176
2,4,6-Tribromophenol	89	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/10

Date Received: 07/27/10

Project: LP Cloverdale 095107.209, F&BI 007277

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
STODDARD SOLVENT USING EPA METHOD 8015M

Laboratory Code: 007277-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Stoddard Solvent	mg/kg (ppm)	5,000	<50	104	102	50-150	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Stoddard Solvent	mg/kg (ppm)	5,000	105	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/23/10

Date Received: 07/27/10

Project: LP Cloverdale 095107.209, F&BI 007277

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
SAMPLES FOR SEMIVOLATILE PHENOLS BY EPA METHOD 8270D SIM

Laboratory Code: 007277-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
2,3,4,6-Tetrachlorophenol	mg/kg (ppm)	<0.1	<0.1	nm
2,3,4,5-Tetrachlorophenol +				
2,3,5,6-Tetrachlorophenol	mg/kg (ppm)	<0.2	<0.2	nm
Pentachlorophenol	mg/kg (ppm)	<0.1	<0.1	nm

Laboratory Code: 007277-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
2,3,4,6-Tetrachlorophenol	mg/kg (ppm)	0.25	<0.1	75	50-150
2,3,4,5-Tetrachlorophenol +					
2,3,5,6-Tetrachlorophenol	mg/kg (ppm)	0.50	<0.2	79	50-150
Pentachlorophenol	mg/kg (ppm)	0.25	<0.1	70	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
2,3,4,6-Tetrachlorophenol	mg/kg (ppm)	0.25	75	80	42-105	6
2,3,4,5-Tetrachlorophenol +						
2,3,5,6-Tetrachlorophenol	mg/kg (ppm)	0.50	75	77	47-112	3
Pentachlorophenol	mg/kg (ppm)	0.25	78	85	10-200	9

FRIEDMAN & BRUYA, INC.

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.
- 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.

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

August 18, 2010

Roland Rueber, Project Manager
SHN
812 W. Wabash
Eureka, CA 95501

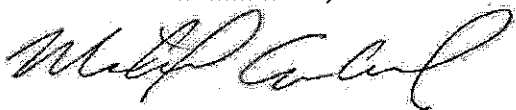
Dear Mr. Rueber:

Included are the results from the testing of material submitted on July 27, 2010 from the L.P. Cloverdale, F&BI 007275 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
NAA0818R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 27, 2010 by Friedman & Bruya, Inc. from the SHN L.P. Cloverdale, F&BI 007275 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SHN</u>
007275-01	Drum-A
007275-02	Drum-B

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/10
Date Received: 07/27/10
Project: L.P. Cloverdale, F&BI 007275
Date Extracted: 07/27/10
Date Analyzed: 07/27/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
USING EPA METHOD 8021B

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
Drum-A/B 007275-01/02	<0.02	<0.02	0.36	0.28	104
Method Blank 00-1122 MB	<0.02	<0.02	<0.02	<0.06	64

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	Drum-A/B	Client:	SHN
Date Received:	07/27/10	Project:	L.P. Cloverdale, F&BI 007275
Date Extracted:	08/02/10	Lab ID:	007275-01/02
Date Analyzed:	08/11/10 21:35	Data File:	081119.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	37	10	178
Phenol-d6	46	10	175
2,4,6-Tribromophenol	49	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	0.60 ve

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	Drum-A/B	Client:	SHN
Date Received:	07/27/10	Project:	L.P. Cloverdale, F&BI 007275
Date Extracted:	08/02/10	Lab ID:	007275-01/02 1/10
Date Analyzed:	08/11/10 21:00	Data File:	081118.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	75	10	178
Phenol-d6	75	10	175
2,4,6-Tribromophenol	57	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<2
Pentachlorophenol	0.46 j

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SHN
Date Received:	Not Applicable	Project:	L.P. Cloverdale, F&BI 007275
Date Extracted:	08/02/10	Lab ID:	00-1154 mb
Date Analyzed:	08/11/10 14:10	Data File:	081106.D
Matrix:	Soil	Instrument:	GCMS8
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	84	10	178
Phenol-d6	90	10	175
2,4,6-Tribromophenol	89	10	157

Compounds:	Concentration mg/kg (ppm)
2,3,4,6-Tetrachlorophenol	<0.1
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	<0.2
Pentachlorophenol	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/10
Date Received: 07/27/10
Project: L.P. Cloverdale, F&BI 007275
Date Extracted: 07/29/10
Date Analyzed: 07/30/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS
AS STODDARD SOLVENT
USING EPA METHOD 8015M
Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> <u>Laboratory ID</u>	<u>Stoddard Solvent Range</u> (C ₈ -C ₁₁)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit: 53-144)
Drum-A/B 007275-01/02	120	113
Method Blank 00-1139 MB	<50	106

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/10

Date Received: 07/27/10

Project: L.P. Cloverdale, F&BI 007275

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
AND XYLENES
USING EPA METHOD 8021B

Laboratory Code: 007212-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Benzene	mg/kg (ppm)	<0.02	<0.02	<0.02
Toluene	mg/kg (ppm)	<0.02	<0.02	<0.02
Ethylbenzene	mg/kg (ppm)	<0.02	0.02	<0.02
Xylenes	mg/kg (ppm)	0.15	0.19	24 a

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	0.5	80	69-120
Toluene	mg/kg (ppm)	0.5	87	70-117
Ethylbenzene	mg/kg (ppm)	0.5	88	65-123
Xylenes	mg/kg (ppm)	1.5	87	66-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/10
 Date Received: 07/27/10
 Project: L.P. Cloverdale, F&BI 007275

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL
 SAMPLES FOR SEMIVOLATILE PHENOLS BY EPA METHOD 8270D SIM**

Laboratory Code: 007277-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
2,3,4,6-Tetrachlorophenol	mg/kg (ppm)	<0.1	<0.1	nm
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	mg/kg (ppm)	<0.2	<0.2	nm
Pentachlorophenol	mg/kg (ppm)	<0.1	<0.1	nm

Laboratory Code: 007277-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
2,3,4,6-Tetrachlorophenol	mg/kg (ppm)	0.25	<0.1	75	50-150
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	mg/kg (ppm)	0.50	<0.2	79	50-150
Pentachlorophenol	mg/kg (ppm)	0.25	<0.1	70	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
2,3,4,6-Tetrachlorophenol	mg/kg (ppm)	0.25	75	80	42-105	6
2,3,4,5-Tetrachlorophenol + 2,3,5,6-Tetrachlorophenol	mg/kg (ppm)	0.50	75	77	47-112	3
Pentachlorophenol	mg/kg (ppm)	0.25	78	85	10-200	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/18/10

Date Received: 07/27/10

Project: L.P. Cloverdale, F&BI 007275

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
STODDARD SOLVENT USING EPA METHOD 8015M**

Laboratory Code: 007277-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Stoddard Solvent	mg/kg (ppm)	5,000	<50	104	102	50-150	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Stoddard Solvent	mg/kg (ppm)	5,000	105	70-130

FRIEDMAN & BRUYA, INC.

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.
- 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.

007275

SAMPLE CHAIN OF CUSTODY

ME 07/27/10

1 of 1

Send Report To

Company SHL - RICHARD BOEDER

Address 912 W. LABASH

City, State, ZIP SEASIDE, CA 95501

Phone # 202-491-8855 Fax # 202-491-8877

SAMPLERS (signature) [Signature]

PROJECT NAME/NO. LP CLEVERLY

PO # 045107-209

REMARKS IN CONTACT WITH INCONUM - LP CORP. 114 QUINN ST. SUITE 2000 WASHINGTON DC 20004

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	TPH-55		REDUC
DRUM A	01	7-23-10	1010	SOIL	1	X								COMPOSITE
DRUM B	02	7-23-10	1410	SOIL	1	X								INTG 1
														SHAVE
														FR
														ANALYSIS

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>			7/26/10	13:00
Received by: <u>[Signature]</u>	Nhan Phan	FeBT	7/27/10	0930
Relinquished by:				
Received by:		Samples received at	5	°C

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

August 24, 2010

Roland Rueber, Project Manager
SHN
812 W. Wabash
Eureka, CA 95501

Dear Mr. Rueber:

Included are the results from the testing of material submitted on July 27, 2010 from the L.P. Cloverdale 095107.209, F&BI 007274 project. There are 21 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
NAA0824R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 27, 2010 by Friedman & Bruya, Inc. from the SHN L.P. Cloverdale 095107.209, F&BI 007274 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SHN</u>
007274-01	Drum-1
007274-02	Drum-2
007274-03	Drum-3

The 8260C compound 1,3,5 trimethylbenzene failed below the acceptance criteria in the matrix spike samples. The laboratory control samples met the acceptance criteria, therefore the data are likely due to sample matrix effect.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10
Date Received: 07/27/10
Project: L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted: 07/27/10
Date Analyzed: 07/27/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
USING EPA METHOD 8015M**

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u> (C ₆ -C ₁₀)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
Drum-Composite 007274-01/02/03	<2	73
Method Blank 00-1122 MB	<2	64

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

Date Extracted: 08/02/10

Date Analyzed: 08/02/10

**RESULTS FROM THE ANALYSIS OF THE SOIL SAMPLE
FOR TOTAL PETROLEUM HYDROCARBONS AS IR SCAN
USING METHOD 418 MODIFIED**

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>IR Result</u>
Drum-Composite 007274-01	<500
Method Blank	<500

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10
Date Received: 07/27/10
Project: L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted: 08/02/10
Date Analyzed: 08/06/10

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL
USING EPA METHOD 8015M**

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>Surrogate</u> (% Recovery) (Limit 50-150)
Drum-Composite 007274-011/03	67	95
Method Blank 00-1140 MB	<10	87

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10
Date Received: 07/27/10
Project: L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted: 08/02/10
Date Analyzed: 08/06/10

RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M

Results Reported on a Dry Weight Basis
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 50-150)
Drum-Composite 007274-01/03	140	65
Method Blank 00-1140 MB	<50	87

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Drum-Composite	Client:	SHN
Date Received:	07/27/10	Project:	L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted:	08/02/10	Lab ID:	007274-01-03
Date Analyzed:	08/03/10	Data File:	007274-01-03.046
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	114	60	125
Indium	89	60	125
Holmium	97	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	36.0
Nickel	54.5
Zinc	89.4
Cadmium	<1
Lead	11.6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SHN
Date Received:	NA	Project:	L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted:	08/02/10	Lab ID:	I0-408 mb
Date Analyzed:	08/03/10	Data File:	I0-408 mb.030
Matrix:	Soil	Instrument:	ICPMS1
Units:	mg/kg (ppm)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	94	60	125
Holmium	96	60	125

Analyte:	Concentration mg/kg (ppm)
Chromium	<1
Nickel	<1
Zinc	<1
Cadmium	<1
Lead	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Drum-Composite	Client: SHN
Date Received: 07/27/10	Project: L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted: 07/28/10	Lab ID: 007274-01/02/03
Date Analyzed: 07/28/10	Data File: 072812.D
Matrix: Soil	Instrument: GCMS4
Units: mg/kg (ppm)	Operator: MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	49	132
Toluene-d8	100	44	140
4-Bromofluorobenzene	110	38	156

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	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	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 Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SHN
Date Received:	Not Applicable	Project:	L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted:	07/27/10	Lab ID:	001120 mb
Date Analyzed:	07/28/10	Data File:	072807.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm)	Operator:	MB

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	49	132
Toluene-d8	97	44	140
4-Bromofluorobenzene	103	38	156

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	1,2-Dibromoethane (EDB)	<0.05
Chloroethane	<0.5	Chlorobenzene	<0.05
Trichlorofluoromethane	<0.5	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

Client Sample ID: Drum-Composite	Client: SHN
Date Received: 07/27/10	Project: L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted: 08/04/10	Lab ID: 007274-01-03
Date Analyzed: 08/05/10	Data File: 080518.D
Matrix: Soil	Instrument: GCMS3
Units: mg/kg (ppm)	Operator: YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	94	30	118
Phenol-d6	90	30	118
Nitrobenzene-d5	100	10	180
2-Fluorobiphenyl	94	40	130
2,4,6-Tribromophenol	89	16	116
Terphenyl-d14	91	30	144

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.3	3-Nitroaniline	<0.9
Bis(2-chloroethyl) ether	<0.03	Acenaphthene	<0.03
2-Chlorophenol	<0.3	2,4-Dinitrophenol	<0.9
1,3-Dichlorobenzene	<0.03	Dibenzofuran	<0.03
1,4-Dichlorobenzene	<0.03	2,4-Dinitrotoluene	<0.03
1,2-Dichlorobenzene	<0.03	4-Nitrophenol	<0.3
Benzyl alcohol	<0.03	Diethyl phthalate	<0.03
Bis(2-chloroisopropyl) ether	<0.03	Fluorene	<0.03
2-Methylphenol	<0.3	4-Chlorophenyl phenyl ether	<0.03
Hexachloroethane	<0.03	N-Nitrosodiphenylamine	<0.03
N-Nitroso-di-n-propylamine	<0.03	4-Nitroaniline	<0.9
3-Methylphenol + 4-Methylphenol	<0.3	4,6-Dinitro-2-methylphenol	<0.9
Nitrobenzene	<0.03	4-Bromophenyl phenyl ether	<0.03
Isophorone	<0.03	Hexachlorobenzene	<0.03
2-Nitrophenol	<0.3	Pentachlorophenol	<0.3
2,4-Dimethylphenol	<0.3	Phenanthrene	<0.03
Benzoic acid	<3	Anthracene	<0.03
Bis(2-chloroethoxy)methane	<0.03	Carbazole	<0.03
2,4-Dichlorophenol	<0.3	Di-n-butyl phthalate	<0.03
1,2,4-Trichlorobenzene	<0.03	Fluoranthene	<0.03
Naphthalene	<0.03	Pyrene	<0.03
Hexachlorobutadiene	<0.03	Benzyl butyl phthalate	<0.03
4-Chloroaniline	<3	Benz(a)anthracene	<0.03
4-Chloro-3-methylphenol	<0.3	Chrysene	0.031
2-Methylnaphthalene	<0.03	Bis(2-ethylhexyl) phthalate	<0.3
Hexachlorocyclopentadiene	<0.09	Di-n-octyl phthalate	<0.03
2,4,6-Trichlorophenol	<0.3	Benzo(a)pyrene	<0.03
2,4,5-Trichlorophenol	<0.3	Benzo(b)fluoranthene	<0.03
2-Chloronaphthalene	<0.03	Benzo(k)fluoranthene	<0.03
2-Nitroaniline	<0.03	Indeno(1,2,3-cd)pyrene	<0.03
Dimethyl phthalate	<0.03	Dibenz(a,h)anthracene	<0.03
Acenaphthylene	<0.03	Benzo(g,h,i)perylene	<0.03
2,6-Dinitrotoluene	<0.03		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SHN
Date Received:	Not Applicable	Project:	L.P. Cloverdale 095107.209, F&BI 007274
Date Extracted:	08/04/10	Lab ID:	00-1160 mb
Date Analyzed:	08/05/10	Data File:	080509.D
Matrix:	Soil	Instrument:	GCMS3
Units:	mg/kg (ppm)	Operator:	YA

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	95	30	118
Phenol-d6	93	30	118
Nitrobenzene-d5	101	10	180
2-Fluorobiphenyl	97	40	130
2,4,6-Tribromophenol	88	16	116
Terphenyl-d14	95	30	144

Compounds:	Concentration mg/kg (ppm)	Compounds:	Concentration mg/kg (ppm)
Phenol	<0.3	3-Nitroaniline	<0.9
Bis(2-chloroethyl) ether	<0.03	Acenaphthene	<0.03
2-Chlorophenol	<0.3	2,4-Dinitrophenol	<0.9
1,3-Dichlorobenzene	<0.03	Dibenzofuran	<0.03
1,4-Dichlorobenzene	<0.03	2,4-Dinitrotoluene	<0.03
1,2-Dichlorobenzene	<0.03	4-Nitrophenol	<0.3
Benzyl alcohol	<0.03	Diethyl phthalate	<0.03
Bis(2-chloroisopropyl) ether	<0.03	Fluorene	<0.03
2-Methylphenol	<0.3	4-Chlorophenyl phenyl ether	<0.03
Hexachloroethane	<0.03	N-Nitrosodiphenylamine	<0.03
N-Nitroso-di-n-propylamine	<0.03	4-Nitroaniline	<0.9
3-Methylphenol + 4-Methylphenol	<0.3	4,6-Dinitro-2-methylphenol	<0.9
Nitrobenzene	<0.03	4-Bromophenyl phenyl ether	<0.03
Isophorone	<0.03	Hexachlorobenzene	<0.03
2-Nitrophenol	<0.3	Pentachlorophenol	<0.3
2,4-Dimethylphenol	<0.3	Phenanthrene	<0.03
Benzoic acid	<3	Anthracene	<0.03
Bis(2-chloroethoxy)methane	<0.03	Carbazole	<0.03
2,4-Dichlorophenol	<0.3	Di-n-butyl phthalate	<0.03
1,2,4-Trichlorobenzene	<0.03	Fluoranthene	<0.03
Naphthalene	<0.03	Pyrene	<0.03
Hexachlorobutadiene	<0.03	Benzyl butyl phthalate	<0.03
4-Chloroaniline	<3	Benz(a)anthracene	<0.03
4-Chloro-3-methylphenol	<0.3	Chrysene	<0.03
2-Methylnaphthalene	<0.03	Bis(2-ethylhexyl) phthalate	<0.3
Hexachlorocyclopentadiene	<0.09	Di-n-octyl phthalate	<0.03
2,4,6-Trichlorophenol	<0.3	Benzo(a)pyrene	<0.03
2,4,5-Trichlorophenol	<0.3	Benzo(b)fluoranthene	<0.03
2-Chloronaphthalene	<0.03	Benzo(k)fluoranthene	<0.03
2-Nitroaniline	<0.03	Indeno(1,2,3-cd)pyrene	<0.03
Dimethyl phthalate	<0.03	Dibenz(a,h)anthracene	<0.03
Acenaphthylene	<0.03	Benzo(g,h,i)perylene	<0.03
2,6-Dinitrotoluene	<0.03		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR TPH AS GASOLINE
USING EPA METHOD 8015M**

Laboratory Code: 007212-02 (Duplicate)

Analyte	Reporting Units	(Wet Wt) Sample Result	(Wet Wt) Duplicate Result	Relative Percent Difference (Limit 20)
Gasoline	mg/kg (ppm)	12	13	17

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL USING EPA METHOD 8015M**

Laboratory Code: 007276-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel	mg/kg (ppm)	5,000	<50	92	89	73-135	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel	mg/kg (ppm)	5,000	101	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
USING EPA METHOD 8015M

Laboratory Code: 007276-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Motor Oil	mg/kg (ppm)	500	<50	109	113	50-150	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Motor Oil	mg/kg (ppm)	500	103	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL METALS USING EPA METHOD 200.8**

Laboratory Code: 007291-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/kg (ppm)	50	9.89	103	106	51-132	3
Nickel	mg/kg (ppm)	25	17.0	101 b	113 b	33-149	11
Zinc	mg/kg (ppm)	50	16.4	100 b	99 b	40-135	1
Cadmium	mg/kg (ppm)	10	<1	104	105	83-120	1
Lead	mg/kg (ppm)	20	4.79	105 b	105 b	65-126	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	mg/kg (ppm)	50	105	79-125
Nickel	mg/kg (ppm)	25	104	84-116
Zinc	mg/kg (ppm)	50	101	79-120
Cadmium	mg/kg (ppm)	10	101	89-116
Lead	mg/kg (ppm)	20	106	81-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

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

Laboratory Code: 007257-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	mg/kg (ppm)	2.5	<0.5	24	21	10-142	13
Chloroethane	mg/kg (ppm)	2.5	<0.5	51	49	10-126	4
Vinyl chloride	mg/kg (ppm)	2.5	<0.05	45	46	10-138	2
Bromomethane	mg/kg (ppm)	2.5	<0.5	51	53	10-160	4
Chloroethane	mg/kg (ppm)	2.5	<0.5	55	59	10-160	7
Trichlorofluoromethane	mg/kg (ppm)	2.5	<0.5	49	49	10-160	0
Acetone	mg/kg (ppm)	12.5	<0.5	67	63	10-160	6
1,1-Dichloroethene	mg/kg (ppm)	2.5	<0.05	55	55	10-160	0
Methylene chloride	mg/kg (ppm)	2.5	<0.5	61	60	10-166	2
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	<0.05	79	80	26-145	1
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	63	64	25-137	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	<0.05	77	77	33-135	0
2,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	87	90	10-168	3
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	<0.05	80	79	41-127	1
Chloroform	mg/kg (ppm)	2.5	<0.05	83	83	34-140	0
2-Butanone (MEK)	mg/kg (ppm)	12.5	<0.5	89	90	23-148	1
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	<0.05	78	78	28-164	0
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	<0.05	76	76	21-161	0
1,1-Dichloropropene	mg/kg (ppm)	2.5	<0.05	73	72	34-131	1
Carbon tetrachloride	mg/kg (ppm)	2.5	<0.05	71	73	10-162	3
Benzene	mg/kg (ppm)	2.5	<0.03	75	74	43-130	1
Trichloroethene	mg/kg (ppm)	2.5	<0.03	74	74	37-139	0
1,2-Dichloropropane	mg/kg (ppm)	2.5	<0.05	82	82	47-127	0
Bromodichloromethane	mg/kg (ppm)	2.5	<0.05	87	87	46-142	0
Dibromomethane	mg/kg (ppm)	2.5	<0.05	81	81	32-144	0
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	<0.5	92	94	29-166	2
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	87	88	46-133	1
Toluene	mg/kg (ppm)	2.5	<0.05	75	72	36-143	1
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	<0.05	90	92	39-139	2
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	<0.05	85	85	48-129	0
2-Hexanone	mg/kg (ppm)	12.5	<0.5	97	93	15-169	1
1,3-Dichloropropane	mg/kg (ppm)	2.5	<0.05	85	84	46-127	1
Tetrachloroethene	mg/kg (ppm)	2.5	<0.025	62	58	33-127	7
Dibromochloromethane	mg/kg (ppm)	2.5	<0.05	89	92	41-141	3
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	<0.05	83	82	41-134	1
Chlorobenzene	mg/kg (ppm)	2.5	<0.05	75	73	50-150	3
Ethylbenzene	mg/kg (ppm)	2.5	<0.05	68	65	39-141	5
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	84	83	47-131	1
m,p-Xylene	mg/kg (ppm)	5	<0.1	60	57	37-143	5
o-Xylene	mg/kg (ppm)	2.5	<0.05	65	61	47-124	6
Styrene	mg/kg (ppm)	2.5	<0.05	79	76	50-150	4
Isopropylbenzene	mg/kg (ppm)	2.5	<0.05	66	63	50-150	5
Bromoform	mg/kg (ppm)	2.5	<0.05	87	88	24-154	1
n-Propylbenzene	mg/kg (ppm)	2.5	<0.05	59	55	50-150	7
Bromobenzene	mg/kg (ppm)	2.5	<0.05	76	74	50-150	3
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	35 vo	30 vo	46-124	15
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	<0.05	88	88	31-144	0
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	<0.05	85	84	32-141	1
2-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	73	69	60-150	6
4-Chlorotoluene	mg/kg (ppm)	2.5	<0.05	74	72	50-150	3
tert-Butylbenzene	mg/kg (ppm)	2.5	<0.05	69	64	50-150	8
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	<0.05	70	72	47-125	3
sec-Butylbenzene	mg/kg (ppm)	2.5	<0.05	59	54	50-150	9
p-Isopropyltoluene	mg/kg (ppm)	2.5	<0.05	59	53	50-150	11
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	70	67	50-150	4
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	71	69	46-116	3
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	<0.05	75	73	50-150	3
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	<0.5	94	96	15-166	2
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	75	70	47-124	7
Hexachlorobutadiene	mg/kg (ppm)	2.5	<0.25	70	62	46-127	12
Naphthalene	mg/kg (ppm)	2.5	<0.05	74	75	32-134	1
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	<0.25	79	74	46-124	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

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	81	29	10-146	7
Chloromethane	mg/kg (ppm)	2.5	59	59	27-133	0
Vinyl chloride	mg/kg (ppm)	2.5	69	67	22-139	3
Bromomethane	mg/kg (ppm)	2.5	72	75	38-114	4
Chloroethane	mg/kg (ppm)	2.5	75	73	10-142	3
Trichlorofluoromethane	mg/kg (ppm)	2.5	89	89	28-177	0
Acetone	mg/kg (ppm)	12.5	74	77	52-141	4
1,1-Dichloroethene	mg/kg (ppm)	2.5	95	91	47-128	4
Methylene chloride	mg/kg (ppm)	2.5	96	105	53-121	0
Methyl t-butyl ether (MTBE)	mg/kg (ppm)	2.5	78	78	63-121	0
trans-1,2-Dichloroethene	mg/kg (ppm)	2.5	92	90	67-127	2
1,1-Dichloroethane	mg/kg (ppm)	2.5	85	84	71-124	3
2,2-Dichloropropane	mg/kg (ppm)	2.5	109	107	59-139	2
cis-1,2-Dichloroethene	mg/kg (ppm)	2.5	88	87	77-125	1
Chloroform	mg/kg (ppm)	2.5	87	87	75-122	0
2-Butanone (MEK)	mg/kg (ppm)	12.5	77	75	67-123	3
1,2-Dichloroethane (EDC)	mg/kg (ppm)	2.5	84	85	74-122	1
1,1,1-Trichloroethane	mg/kg (ppm)	2.5	88	87	74-125	1
1,1-Dichloropropene	mg/kg (ppm)	2.5	87	86	69-128	1
Carbon tetrachloride	mg/kg (ppm)	2.5	89	89	67-133	0
Benzene	mg/kg (ppm)	2.5	86	86	72-121	0
Trichloroethene	mg/kg (ppm)	2.5	87	87	73-122	0
1,2-Dichloropropane	mg/kg (ppm)	2.5	89	90	72-127	1
Bromodichloromethane	mg/kg (ppm)	2.5	93	96	75-129	1
Dibromomethane	mg/kg (ppm)	2.5	86	88	76-116	2
4-Methyl-2-pentanone	mg/kg (ppm)	12.5	83	81	45-145	2
cis-1,3-Dichloropropene	mg/kg (ppm)	2.5	95	98	75-136	3
Toluene	mg/kg (ppm)	2.5	87	89	66-126	2
trans-1,3-Dichloropropene	mg/kg (ppm)	2.5	96	97	72-132	1
1,1,2-Trichloroethane	mg/kg (ppm)	2.5	87	86	77-117	1
2-Hexanone	mg/kg (ppm)	12.5	83	81	33-152	2
1,3-Dichloropropane	mg/kg (ppm)	2.5	86	88	72-130	2
Tetrachloroethene	mg/kg (ppm)	2.5	87	89	77-114	2
Dibromochloromethane	mg/kg (ppm)	2.5	96	99	74-125	3
1,2-Dibromoethane (EDB)	mg/kg (ppm)	2.5	88	88	74-132	0
Chlorobenzene	mg/kg (ppm)	2.5	89	90	77-111	1
Ethylbenzene	mg/kg (ppm)	2.5	90	91	64-123	1
1,1,1,2-Tetrachloroethane	mg/kg (ppm)	2.5	95	95	69-135	0
m,p-Xylene	mg/kg (ppm)	5	92	95	78-122	3
o-Xylene	mg/kg (ppm)	2.5	92	94	77-124	2
Styrene	mg/kg (ppm)	2.5	96	98	74-126	2
Isopropylbenzene	mg/kg (ppm)	2.5	94	95	76-127	1
Bromofuran	mg/kg (ppm)	2.5	96	97	56-132	1
n-Propylbenzene	mg/kg (ppm)	2.5	93	95	74-124	2
Bromobenzene	mg/kg (ppm)	2.5	91	93	72-132	2
1,3,5-Trimethylbenzene	mg/kg (ppm)	2.5	92	93	76-126	1
1,1,2,2-Tetrachloroethane	mg/kg (ppm)	2.5	81	82	56-143	1
1,2,3-Trichloropropane	mg/kg (ppm)	2.5	82	83	61-137	1
2-Chlorotoluene	mg/kg (ppm)	2.5	88	91	74-121	3
4-Chlorotoluene	mg/kg (ppm)	2.5	90	92	75-122	2
tert-Butylbenzene	mg/kg (ppm)	2.5	91	93	73-130	2
1,2,4-Trimethylbenzene	mg/kg (ppm)	2.5	93	96	76-125	3
sec-Butylbenzene	mg/kg (ppm)	2.5	93	95	71-130	2
p-Isopropyltoluene	mg/kg (ppm)	2.5	95	98	70-132	3
1,3-Dichlorobenzene	mg/kg (ppm)	2.5	92	93	75-121	1
1,4-Dichlorobenzene	mg/kg (ppm)	2.5	88	89	74-117	1
1,2-Dichlorobenzene	mg/kg (ppm)	2.5	91	92	76-121	1
1,2-Dibromo-3-chloropropane	mg/kg (ppm)	2.5	79	82	62-137	4
1,2,4-Trichlorobenzene	mg/kg (ppm)	2.5	94	94	70-129	0
Hexachlorobutadiene	mg/kg (ppm)	2.5	89	91	50-153	2
Naphthalene	mg/kg (ppm)	2.5	84	83	60-125	1
1,2,3-Trichlorobenzene	mg/kg (ppm)	2.5	90	92	62-130	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR SEMIVOLATILES BY EPA METHOD 8270D**

Laboratory Code: 008024-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Phenol	mg/kg (ppm)	<0.3	<0.3	nm
2-Chlorophenol	mg/kg (ppm)	<0.3	<0.3	nm
1,4-Dichlorobenzene	mg/kg (ppm)	<0.03	<0.03	nm
2-Methylphenol	mg/kg (ppm)	<0.3	<0.3	nm
N-Nitroso-di-n-propylamine	mg/kg (ppm)	<0.03	<0.03	nm
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	<0.3	<0.3	nm
2-Nitrophenol	mg/kg (ppm)	<0.3	<0.3	nm
2,4-Dimethylphenol	mg/kg (ppm)	<0.3	<0.3	nm
Benzoic acid	mg/kg (ppm)	<3	<3	nm
2,4-Dichlorophenol	mg/kg (ppm)	<0.3	<0.3	nm
1,2,4-Trichlorobenzene	mg/kg (ppm)	<0.3	<0.3	nm
Naphthalene	mg/kg (ppm)	<0.03	<0.03	nm
4-Chloro-3-methylphenol	mg/kg (ppm)	<0.3	<0.3	nm
Hexachlorocyclopentadiene	mg/kg (ppm)	<0.09	<0.09	nm
2,4,6-Trichlorophenol	mg/kg (ppm)	<0.3	<0.3	nm
2,4,5-Trichlorophenol	mg/kg (ppm)	<0.3	<0.3	nm
Acenaphthene	mg/kg (ppm)	<0.03	<0.03	nm
2,4-Dinitrophenol	mg/kg (ppm)	<0.9	<0.9	nm
2,4-Dinitrotoluene	mg/kg (ppm)	<0.03	<0.03	nm
4-Nitrophenol	mg/kg (ppm)	<0.3	<0.3	nm
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	<0.9	<0.9	nm
Hexachlorobenzene	mg/kg (ppm)	<0.03	<0.03	nm
Pentachlorophenol	mg/kg (ppm)	<0.3	<0.3	nm
Pyrene	mg/kg (ppm)	0.13	0.19	37 a
Benzo(a)pyrene	mg/kg (ppm)	0.10	0.16	46 a

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: 008024-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Phenol	mg/kg (ppm)	2.5	<0.3	78	10-129
2-Chlorophenol	mg/kg (ppm)	2.5	<0.3	82	47-108
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	<0.03	88	39-110
2-Methylphenol	mg/kg (ppm)	2.5	<0.03	86	50-150
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	<0.03	91	50-150
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	5.0	<0.03	86	50-150
2-Nitrophenol	mg/kg (ppm)	2.5	<0.03	72	50-150
2,4-Dimethylphenol	mg/kg (ppm)	2.5	<3	78	50-150
Benzoic acid	mg/kg (ppm)	2.5	<0.3	0 ip	50-150
2,4-Dichlorophenol	mg/kg (ppm)	2.5	<0.03	65	50-150
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	<0.03	89	44-111
Naphthalene	mg/kg (ppm)	1.7	<0.03	91	29-120
4-Chloro-3-methylphenol	mg/kg (ppm)	2.5	<0.9	84	35-115
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	<0.03	55	50-150
2,4,6-Trichlorophenol	mg/kg (ppm)	2.5	<0.03	22 ip	50-150
2,4,5-Trichlorophenol	mg/kg (ppm)	2.5	<0.03	26 ip	50-150
Acenaphthene	mg/kg (ppm)	1.7	<0.3	88	60-106
2,4-Dinitrophenol	mg/kg (ppm)	2.5	<0.03	0 ip	50-150
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	<0.9	89	47-126
4-Nitrophenol	mg/kg (ppm)	2.5	<0.3	18	10-134
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	2.5	<0.03	1 ip	50-150
Hexachlorobenzene	mg/kg (ppm)	1.7	<0.03	87	50-150
Pentachlorophenol	mg/kg (ppm)	2.5	<0.03	1 ip	31-120
Pyrene	mg/kg (ppm)	1.7	<0.03	86	45-119
Benzo(a)pyrene	mg/kg (ppm)	1.7	<0.03	80	28-126

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/24/10

Date Received: 07/27/10

Project: L.P. Cloverdale 095107.209, F&BI 007274

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF SOIL SAMPLES
FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	mg/kg (ppm)	2.5	80	79	40-105	1
2-Chlorophenol	mg/kg (ppm)	2.5	90	93	43-106	3
1,4-Dichlorobenzene	mg/kg (ppm)	1.7	86	91	44-107	6
2-Methylphenol	mg/kg (ppm)	2.5	84	86	49-102	2
N-Nitroso-di-n-propylamine	mg/kg (ppm)	1.7	88	88	36-116	0
3-Methylphenol + 4-Methylphenol	mg/kg (ppm)	5.0	88	88	70-130	0
2-Nitrophenol	mg/kg (ppm)	2.5	89	96	53-104	8
2,4-Dimethylphenol	mg/kg (ppm)	2.5	93	104 vo	30-103	11
Benzoic acid	mg/kg (ppm)	2.5	92	85	46-125	8
2,4-Dichlorophenol	mg/kg (ppm)	2.5	91	101	53-102	10
1,2,4-Trichlorobenzene	mg/kg (ppm)	1.7	89	98	45-109	10
Naphthalene	mg/kg (ppm)	1.7	89	96	42-116	8
4-Chloro-3-methylphenol	mg/kg (ppm)	2.5	92	100	42-114	8
Hexachlorocyclopentadiene	mg/kg (ppm)	1.7	84	85	35-121	1
2,4,6-Trichlorophenol	mg/kg (ppm)	2.5	89	92	35-120	3
2,4,5-Trichlorophenol	mg/kg (ppm)	2.5	92	96	51-111	4
Acenaphthene	mg/kg (ppm)	1.7	88	92	55-105	4
2,4-Dinitrophenol	mg/kg (ppm)	2.5	80	74	52-128	8
2,4-Dinitrotoluene	mg/kg (ppm)	1.7	91	95	43-115	4
4-Nitrophenol	mg/kg (ppm)	2.5	89	91	34-125	2
4,6-Dinitro-2-methylphenol	mg/kg (ppm)	2.5	90	90	38-135	0
Hexachlorobenzene	mg/kg (ppm)	1.7	88	91	40-119	3
Pentachlorophenol	mg/kg (ppm)	2.5	97	94	31-125	3
Pyrene	mg/kg (ppm)	1.7	90	96	39-113	6
Benzo(a)pyrene	mg/kg (ppm)	1.7	87	95	44-113	9

FRIEDMAN & BRUYA, INC.

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.

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.

007274

SAMPLE CHAIN OF CUSTODY

ME 07/27/10

CLB

Page # 1 of 1

Send Report To

Company SHU-ROCKWELL RYESS

Address 812 W. WABASH

City, State, ZIP 98104 WA CA 98501

Phone # 206-441-8855 Fax # 206-441-8877

SAMPLERS (signature) [Signature]

PROJECT NAME/NO

L.P. CIO (SAMPLE)

CF5107, 209

REMARKS INVOICE TO APRIL INCORPORATED LP CORP 4110 BURNS STREET, SUITE 200 NORTHVILLE, TN 37219

PO #

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	TPH-MO		CM-5
DRUM-1	01 AB	7-22-10	1330	Soil	2	X	X	X	X	X	X	X	X	Composite
DRUM-2	02 AB		1400	↓	2	X	X	X	X	X	X	X	X	100% 1
DRUM-3	03 AB		1530	↓	2	X	X	X	X	X	X	X	X	Composite
														ANALYSIS

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: [Signature]	Richard [Signature]	SHU	7/26/10	1300
Received by: [Signature]	Nhan Phan	Fe B-I	7/27/10	0930
Relinquished by:				
Received by:		Samples received at	5 °C	