Third Quarter 2005 Groundwater Monitoring and Remediation System O&M Report

Blue Lake Belting and Leather Works
Case No. 12012

Prepared for:

Blue Lake Belting and Leather Works

SHN Consulting Engineers & Geologists, Inc.

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

November 2005

097309

CONSULTING ENGINEERS & GEOLOGISTS, INC.
812 W. Wabash • Eureka, CA 95501-2138 • 707-441-8855 • Fax 707-441-8877 • info@shn-eureka.com

Reference: 097309

November 10, 2005

Mr. Mark Verhey
Humboldt County Division of Environmental Health
100 H Street, Suite 100
Eureka, CA 95501

Subject: Third Quarter 2005 Groundwater Monitoring and Remediation System O&M Report, Blue Lake Belting and Leather Works, 411 Railroad Avenue, Blue Lake, California; Case No. 12012

Dear Mr. Verhey:

The attached report presents the results of groundwater monitoring and remediation system operation and maintenance activities conducted during the third quarter 2005, at the Blue Lake Belting and Leather Works. Quarterly monitoring of wells MW-102 through MW-106 (MW-101 did not have sufficient groundwater to sample), and LACO Associates wells MW-1 and MW-2, occurred at the site on September 1, 2005. SHN Consulting Engineers & Geologists, Inc. (SHN) performed this work on behalf of Blue Lake Belting and Leather Works. Site monitoring activities coincide with site monitoring at the Blue Lake Market, conducted by LACO Associates during the third quarter 2005.

Please call me at 707-441-8855 if you have any questions.

Sincerely,

SHN Consulting Engineers & Geologists, Inc.

Mike Foget, P.E.
Senior Project Engineer

MKF/ADM:med:lms
Enclosure: 3rd Quarter 2005 Monitoring Report
copy w/encl: Chuck Huntzinger, BLB&LW

Reference: 097309

Third Quarter 2005 Groundwater Monitoring and Remediation System O&M Report

Blue Lake Belting and Leather Works
Case No. 12012

Prepared for:

Blue Lake Belting and Leather Works

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

November 2005

REGISTERED PROFESSIONAL ENGINEER
MICHAEL K. FOGET
No. C
EXP. 12/31/05
CIVIL
STATE OF CALIFORNIA

QA/QC: MKF

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Abbreviations and Acronyms

<	denotes a value that is "less than" the method detection limit
kWhr	kilowatt hour
mg/L	milligrams per Liter
mg/L CaCO3	milligrams per Liter of Calcium Carbonate
ppm	parts per million
psi	pounds per square inch
scfh	standard cubic feet per hour
ug/L	micrograms per Liter
BGS	Below Ground Surface
BLB&LW	Blue Lake Belting and Leather Works
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes
DCO_2	Dissolved Carbon Dioxide
DIPE	Diisopropyl Ether
DO	Dissolved Oxygen
EC	Electrical Conductivity
EPA	U.S. Environmental Protection Agency
ETBE	Ethyl Tertiary-Butyl Ether
HCDEH	Humboldt County Division of Environmental Health
LACO	LACO Associates
MTBE	Methyl Tertiary-Butyl Ether
MW-#	Monitoring Well-#
NA	Not Analyzed/Not Applicable/Not Available
NS	Not Sampled
ORP	Oxidation-Reduction Potential
SHN	SHN Consulting Engineers & Geologists, Inc.
SW-#	Sparge Well-#
TAME	Tertiary-Amyl Methyl Ether
TBA	Tertiary-Butyl Alcohol
TOC	Top of Casing
TPHG	Total Petroleum Hydrocarbons as Gasoline
UST	Underground Storage Tank

1.0 Introduction

This report presents the results of groundwater monitoring activities completed during the third quarter of 2005 at the Blue Lake Belting and Leather Works (BLB&LW). The site is located at 411 Railroad Avenue in Blue Lake, California (Figure 1). SHN Consulting Engineers & Geologists, Inc. (SHN) conducted the quarterly groundwater-monitoring event on September 1, 2005.

1.1 Background

The BLB&LW parcel (Figure 2) was previously used as an automobile service station with three underground fuel storage tanks located on site:

- One 650-gallon gasoline Underground Storage Tank (UST) is located beneath the floor of what is presently the BLB&LW shop area.
- One 1,000-gallon UST was located in the sidewalk along G Street.
- One 750-gallon UST was previously located along the fueling island (Subsurface Investigation Work Plan, Blue Lake Market, LACO, April 1992).

The 650-gallon UST passed a pressure test conducted by Precision Tank Testing Company, and, under approval from the Humboldt County Division of Environmental Health (HCDEH), was abandoned in place and subsequently filled with concrete. This tank has since received regulatory closure and is not a part of the current site investigation.

1.2 Previous Site Activities

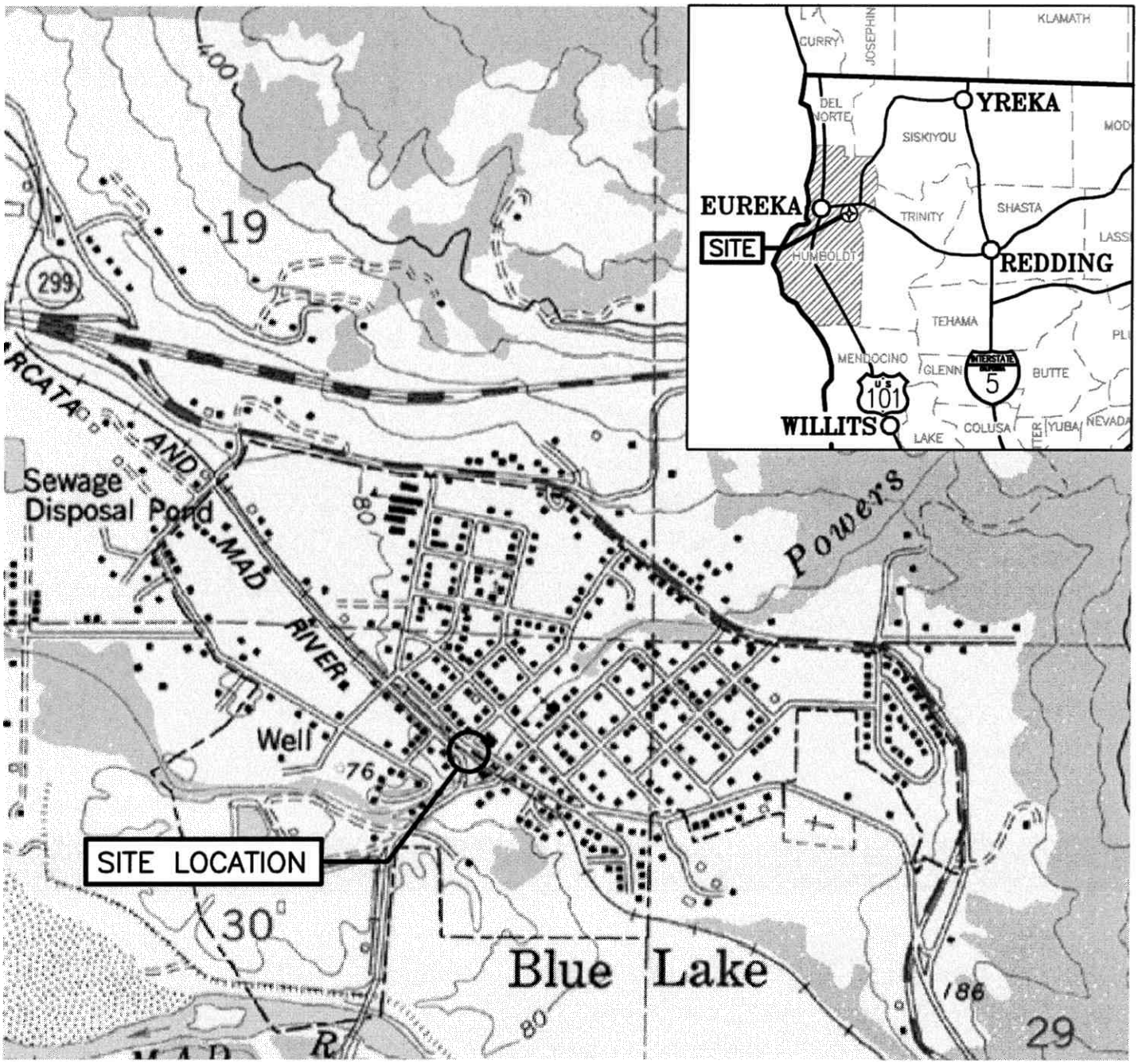
In January 1995, soil samples collected adjacent to the location of the former USTs indicated the presence of petroleum hydrocarbon constituents in soil. Subsequent site investigations and quarterly groundwater monitoring conducted at BLB&LW indicated that elevated levels of petroleum hydrocarbons were present in soil and groundwater in the vicinity of monitoring wells MW-103, MW-104, and MW-105 (SHN, 2000).

Since groundwater monitoring commenced in 1999, Methyl Tertiary-Butyl Ether (MTBE) has not been detected in any of the groundwater samples submitted for laboratory analysis. In addition, the former USTs were taken out of service prior to the time at which MTBE was commonly utilized in motor fuel. As such, laboratory analysis for this constituent was discontinued after the third quarter 2003 groundwater-monitoring event was completed.

In August 2003, SHN conducted an air sparge pilot test at the site. Based on the results of the pilot test, SHN recommended that an ozone sparge system be installed to remediate petroleum hydrocarbons in groundwater at the site (SHN, 2003).

In July 2004, SHN installed nine ozone sparge wells in addition to the single sparge well that was previously installed for the air sparge pilot test. Construction of the system has been completed and the ozone sparge system became operational on December 21, 2004.

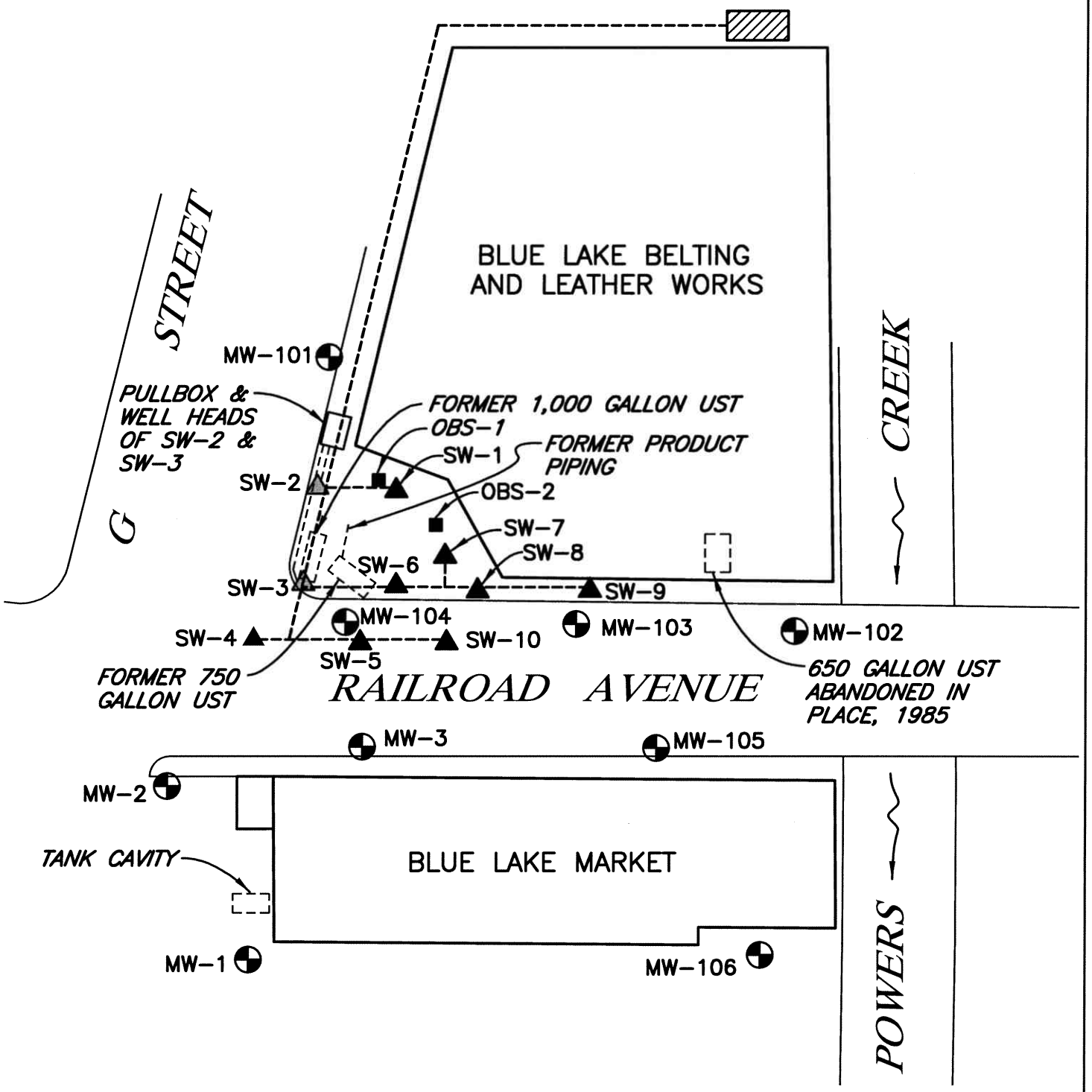
Table 1 summarizes the well construction details of all wells on the site.



SOURCE: BLUE LAKE USGS 7.5 MINUTE QUADRANGLE

1"=1000'±

SHN Consulting Engineers & Geologists, Inc.	Blue Lake Belting and Leather Works Blue Lake, California	Site Location Map SHN 097309
	JUNE 2003	097309-LOCATION	Figure 1



EXPLANATION

MW-101 MONITORING WELL LOCATION AND DESIGNATION

SW-1 SPARGE WELL LOCATION AND DESIGNATION

OBS-1 OBSERVATION WELL LOCATION AND DESIGNATION

FORMER UST LOCATION

OZONE SPARGE TRAILER

OZONE SPARGE PIPING

SW-2 SPARGE WELL LOCATION AND DESIGNATION. SPARGE WELL HEAD LOCATED UNDER SIDEWALK

1"=30'

SHN Consulting Engineers & Geologists, Inc.	Blue Lake Belting and Leather Works Blue Lake, California	Site Plan SHN 097309
	July, 2005 / 097309-SI3	Figure 2

Table 1 Site Well Specifications Blue Lake Belting and Leather Works, Blue Lake, California						
Well ID	**Total Depth (feet)**	**Screened Interval (feet BGS[1])**	**Casing Diameter (inches)**	**Date Installed**	**Status**	**Operation**
Monitoring Wells						
MW-101	15	5-15	2	10/27/99	In use	MW[2]
MW-102	20	5-20	2	10/27/99	In use	MW
MW-103	19	6-19	2	10/27/99	In use	MW
MW-104	17	5-17	2	10/28/99	In use	MW
MW-105	15	5-15	2	10/28/99	In use	MW
MW-106	15	5-15	2	10/28/99	In use	MW
Sparge Wells						
SW-1	17	15-17	1	7/2/03	In use	Ozone Sparge
SW-2	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-3	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-4	18.9	16.9-18.9	1	7/6/04	In use	Ozone Sparge
SW-5	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-6	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-7	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-8	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-9	19	17-19	1	7/6/04	In use	Ozone Sparge
SW-10	18.7	16.7-18.7	1	7/6/04	In use	Ozone Sparge
Observation Wells						
OBS-1	10	5-10	1	7/2/03	In use	Observation
OBS-2	10	5-10	1	7/2/03	In use	Observation
1. BGS: Below Ground Surface			2. MW: Monitoring Well			

SHN is continuing quarterly groundwater monitoring in wells MW-101 through MW-106. Additionally, since the first quarter of 2005, SHN has assumed quarterly groundwater monitoring of LACO well MW-3. These wells are monitored for Total Petroleum Hydrocarbons as Gasoline (TPHG); Benzene, Toluene, Ethylbenzene and Xylenes (BTEX); and select field measured indicators of bioremediation.

2.0 Field Activities

As part of the groundwater-monitoring program, monitoring wells MW-102 through MW-106 and LACO well MW-3 were purged and sampled at the BLB&LW site (MW-101 was not sampled due to lack of water in the well). All work was conducted in accordance with the approved work plan and site safety plan developed for this project. Monitoring activities at the site are coordinated in conjunction with the current groundwater investigation at the nearby Blue Lake Market site, performed by LACO Associates (LACO) (wells MW-1 and MW-2, Figure 2). LACO performed groundwater monitoring at the Blue Lake Market in conjunction with the current investigation at the BLB&LW during the third quarter 2005, and that information is included in this report.

2.1 Monitoring Well Sampling

On September 1, 2005, SHN conducted quarterly groundwater monitoring of wells MW-102 through MW-106 and LACO well MW-3. Prior to purging, each groundwater monitoring well was measured for depth to water, checked for the presence of floating product, and monitored for Dissolved Oxygen (DO), Oxidation-Reduction Potential (ORP), and Dissolved Carbon Dioxide (DCO_2). DO and ORP were measured using portable instrumentation, and DCO_2 was measured using a field test kit.

Purging operations included bailing three casing volumes of water from each monitoring well. During purging, each well was monitored for Electrical Conductivity (EC), temperature, and pH using portable instrumentation. Each groundwater sample was collected using disposable polyethylene bailers and transferred into laboratory-supplied containers. The water samples were then labeled, stored in an iced cooler, and transported to the laboratory under proper chain-of-custody documentation. Field notes from the September 2005 groundwater-monitoring event are included in Appendix A.

2.2 Laboratory Analysis

All of the groundwater samples collected by SHN during the third quarter 2005 monitoring event were analyzed for the following:

- TPHG in accordance with U.S. Environmental Protection Agency (EPA) Method No. 5030/GCFID/8015B.
- BTEX in accordance with EPA Method No. 5030/8021B.

North Coast Laboratories Ltd., a State of California-certified laboratory located in Arcata, California, conducted all analyses.

2.3 Equipment Decontamination Procedures

All monitoring and sampling equipment was cleaned prior to being transported to the site and prior to purging each well. All small equipment was cleaned using the triple wash system. The equipment was initially washed in a water solution containing Liquinox® cleaner, followed by a distilled water rinse, then by a second distilled water rinse.

2.4 Investigation-Derived Waste Management

All rinse water used for decontaminating field sampling equipment and well purge water was contained in 50-gallon plastic drums. The water was then transported to the SHN purge water storage tank located at 812 West Wabash Avenue in Eureka, California, for temporary storage. Approximately 32 gallons of water were generated during the September 1, 2005, monitoring event, and were discharged, under permit, to the City of Eureka Municipal Sewer System. A discharge receipt for the 74 gallons of water generated during the first quarter 2005 monitoring event and the 79 gallons from the second quarter monitoring event are also included in Appendix A.

3.0 Groundwater Monitoring Results

3.1 Hydrogeology

SHN collected depth to water measurements in the BLB&LW monitoring wells on September 1, 2005. These measurements are shown in Table 2. On the same day, LACO collected depth to water measurements from Blue Lake Market wells MW-1 and MW-2, which are located adjacent to BLB&LW site. The Top of Casing (TOC) elevation for each well was surveyed relative to the TOC elevation for Blue Lake Market well MW-1. During this monitoring event, groundwater flow beneath the BLB&LW site was to the south with an approximate gradient of 0.0083. The groundwater elevation contours on September 1, 2005 are shown on Figure 3. Historic groundwater elevation data are presented in Appendix B, Table B-1.

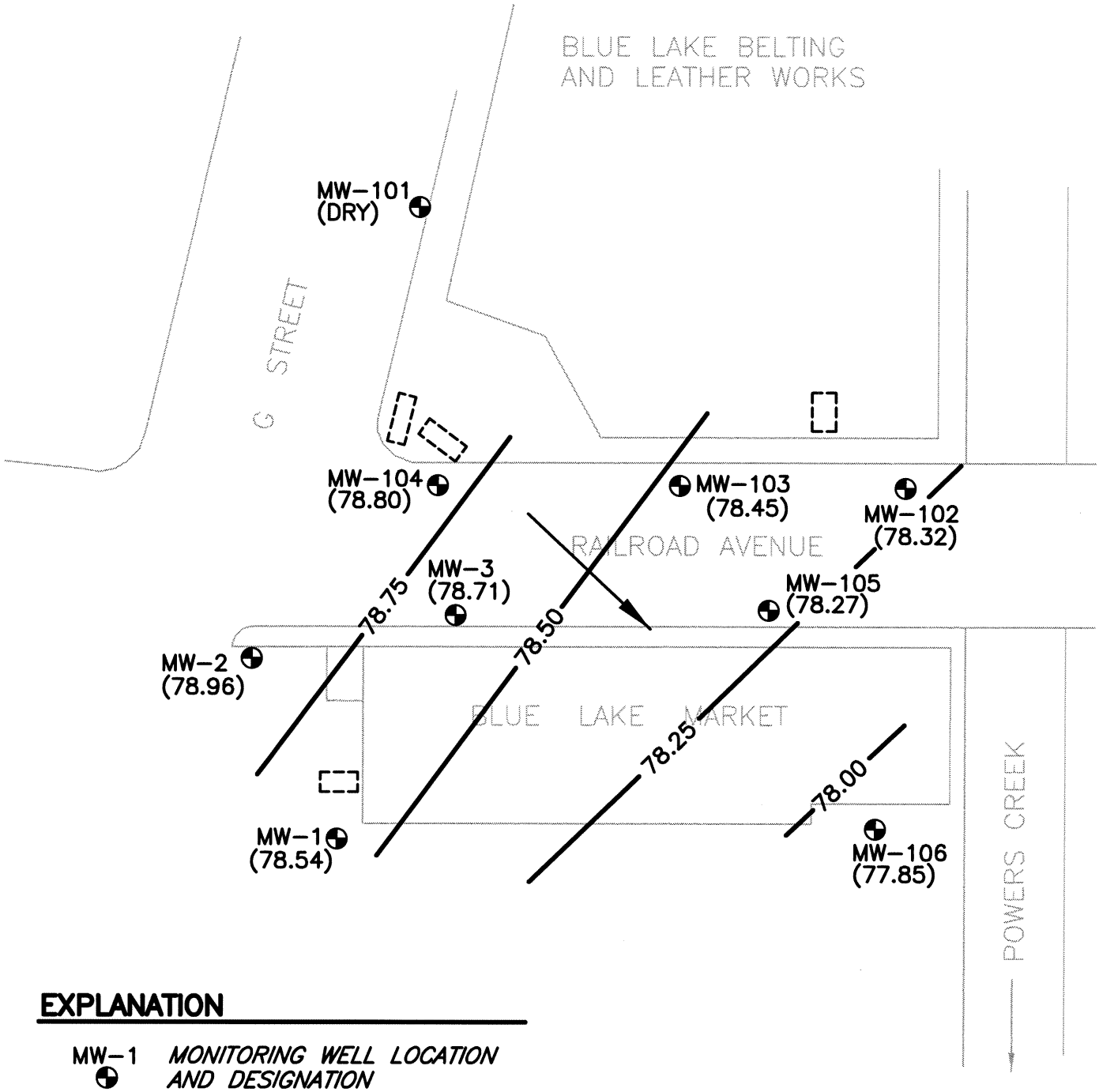
Table 2
Groundwater Elevations, September 1, 2005
Blue Lake Belting & Leather Works, Blue Lake, California

Sample Location	Top of Casing Elevation[1] (feet)	Depth to Water[2] (feet)	Groundwater Elevation[1] (feet)
MW-101	92.27	dry	< 92.27
MW-102	91.19	12.87	78.32
MW-103	91.57	13.12	78.45
MW-104	91.48	12.68	78.80
MW-105	91.32	13.05	78.27
MW-106	88.88	11.03	77.85
MW-1[3]	89.45	10.91	78.54
MW-2[3]	91.29	12.33	78.96
MW-3	91.63	12.92	78.71

1. All wells referenced to relative top of casing of Blue Lake Market well MW-1
2. Below top of casing
3. Blue Lake Market Wells MW-1 and MW-2 were gauged by LACO.

3.2 Groundwater Analytical Results

The laboratory analytical results from the groundwater samples collected on September 1, 2005, from the BLB&LW groundwater monitoring wells and Blue Lake Market wells are summarized in Table 3. TPHG was detected in the groundwater samples from monitoring wells MW-103, MW-104, MW-105, and LACO wells MW-1, MW-2, and MW-3 at concentrations ranging from 470 micrograms per Liter (ug/L) to 8,300 ug/L. Petroleum hydrocarbons were not detected in monitoring wells MW-102 or MW-106.



EXPLANATION

MW-1 — MONITORING WELL LOCATION AND DESIGNATION

FORMER UST LOCATION

(78.54) — GROUNDWATER ELEVATION IN FEET ABOVE MSL

78.25 — GROUNDWATER CONTOUR

APPROXIMATE GROUNDWATER FLOW DIRECTION

HYDRAULIC GRADIENT=0.0083

1"=30'

0 30

SHN Consulting Engineers & Geologists, Inc.	Blue Lake Belting and Leather Works Blue Lake, California	Groundwater Contours September 1, 2005 SHN 097309
	OCTOBER 2005	097309-GWC-SEPT-05	Figure 3

Table 3
Groundwater Analytical Results, September 1, 2005
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)[1]

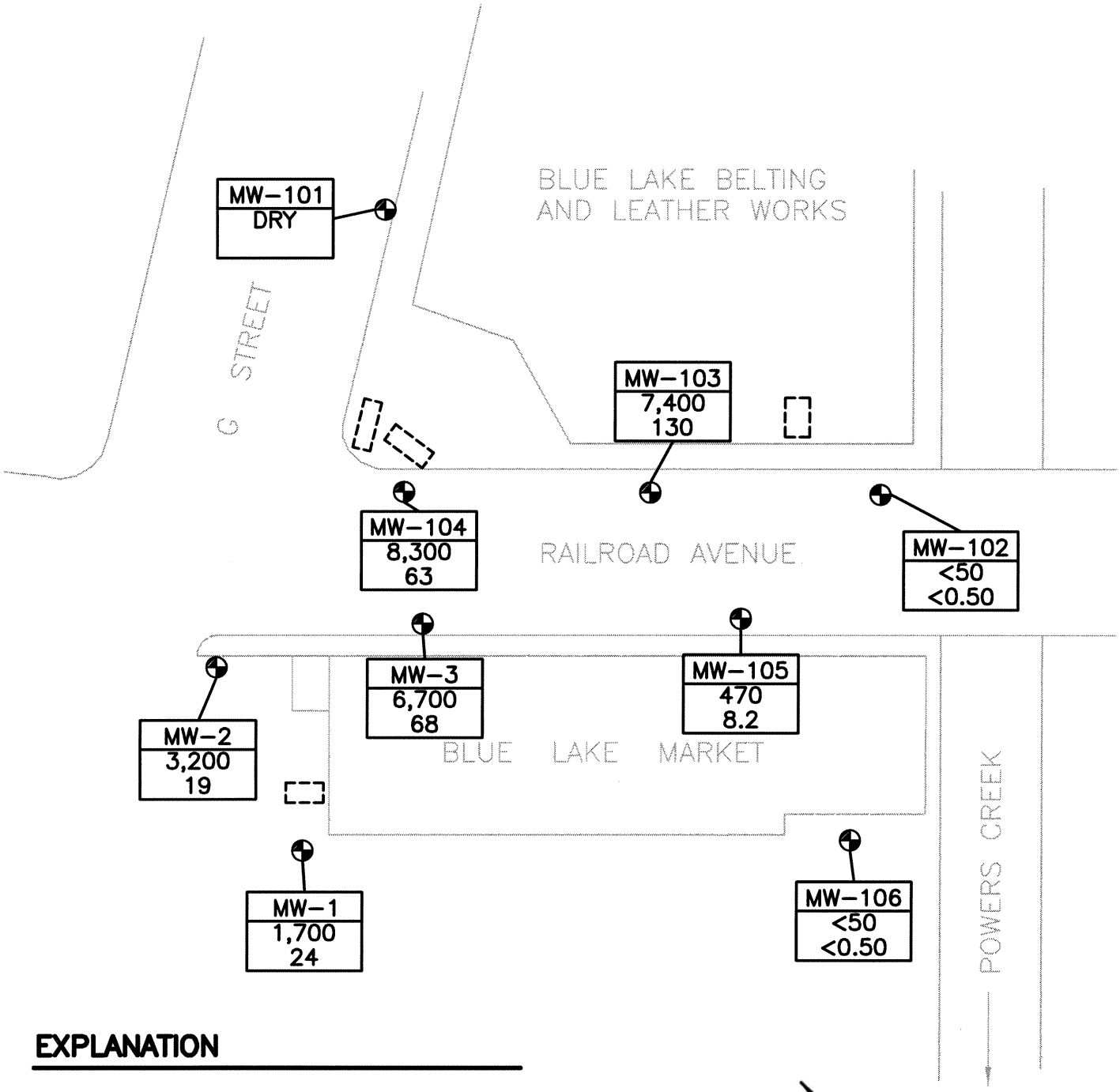
Sample Location	TPHG[2]	Benzene	Toluene	Ethylbenzene	m,p-xylene	o-xylene
MW-101	dry	--	--	--	--	--
MW-102	<50[3]	<0.50	<0.50	<0.50	<0.50	<0.50
MW-103	**7,400[4]**	**130**	**110**	**230**	**410**	**36**
MW-104	**8,300[4]**	**63**	**88**	**270**	**480**	**39**
MW-105	**470[5]**	**8.2**	<15[6]	**3.6**	**0.95**	**1.2**
MW-106	<50	<0.50	<0.50	<0.50	<0.50	<0.50
Blue Lake Market Wells[7]						
MW-1[7]	**1,700[5]**	**24**	<25[6]	<10[6]	<10[6]	<10[6]
MW-2[7]	**3,200[4]**	**19**	**57**	**130**	**380**	**30**
MW-3	**6,700[4]**	**68**	**160**	**110**	**180**	**28**

1. ug/L: micrograms per Liter
2. TPHG: Total Petroleum Hydrocarbons as Gasoline
3. <: Denotes a value that is "less than" the method detection limit.
4. Sample appears to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.
5. Values include the reported gasoline components in addition to other peaks in the gasoline range.
6. Reporting limits were raised due to matrix interference.
7. Data from MW-1 and MW-2 provided by LACO Associates.

The concentrations of TPHG and benzene present in the groundwater monitoring wells on September 1, 2005, are shown on Figure 4. The complete laboratory analytical reports and corresponding chain-of-custody documentation are included in Appendix C. Historic groundwater analytical data are presented in Appendix B, Table B-2.

3.3 Natural Attenuation Parameters

Three groundwater parameters (DO, DCO_2, and ORP) were measured using field instrumentation in groundwater monitoring wells MW-102 through MW-106 and MW-3 prior to sampling, and are summarized in Table 4. Historic natural attenuation parameters are presented in Appendix B, Table B-3. Table 4 indicates that mildly reducing conditions exist in the source area (MW-4) even with periodic ozone injection.



SHN Consulting Engineers & Geologists, Inc.	Blue Lake Belting and Leather Works Blue Lake, California	Summary of Groundwater Analytical Results, September 1, 2005 SHN 097309
	OCTOBER 2005	097309-GAR-SEPT-05	Figure 4

Table 4 DO, DCO_2, and ORP Measurement Results, September 1, 2005 Blue Lake Belting & Leather Works, Blue Lake, California			
Sample Location	DO[1] (ppm)[2]	DCO_2[3] (ppm)	ORP[4] (millivolts)
MW-101	dry	--	--
MW-102	1.61	20	181
MW-103	0.76	40	-11
MW-104	0.76	20	-68
MW-105	0.79	30	-19
MW-106	0.92	20	167
MW-3	0.75	40	-48

1. DO: Dissolved Oxygen, measured with field instrumentation
2. ppm: parts per million
3. DCO_2: Dissolved Carbon Dioxide, measured with field instrumentation
4. ORP: Oxidation-Reduction Potential, measured with field instrumentation

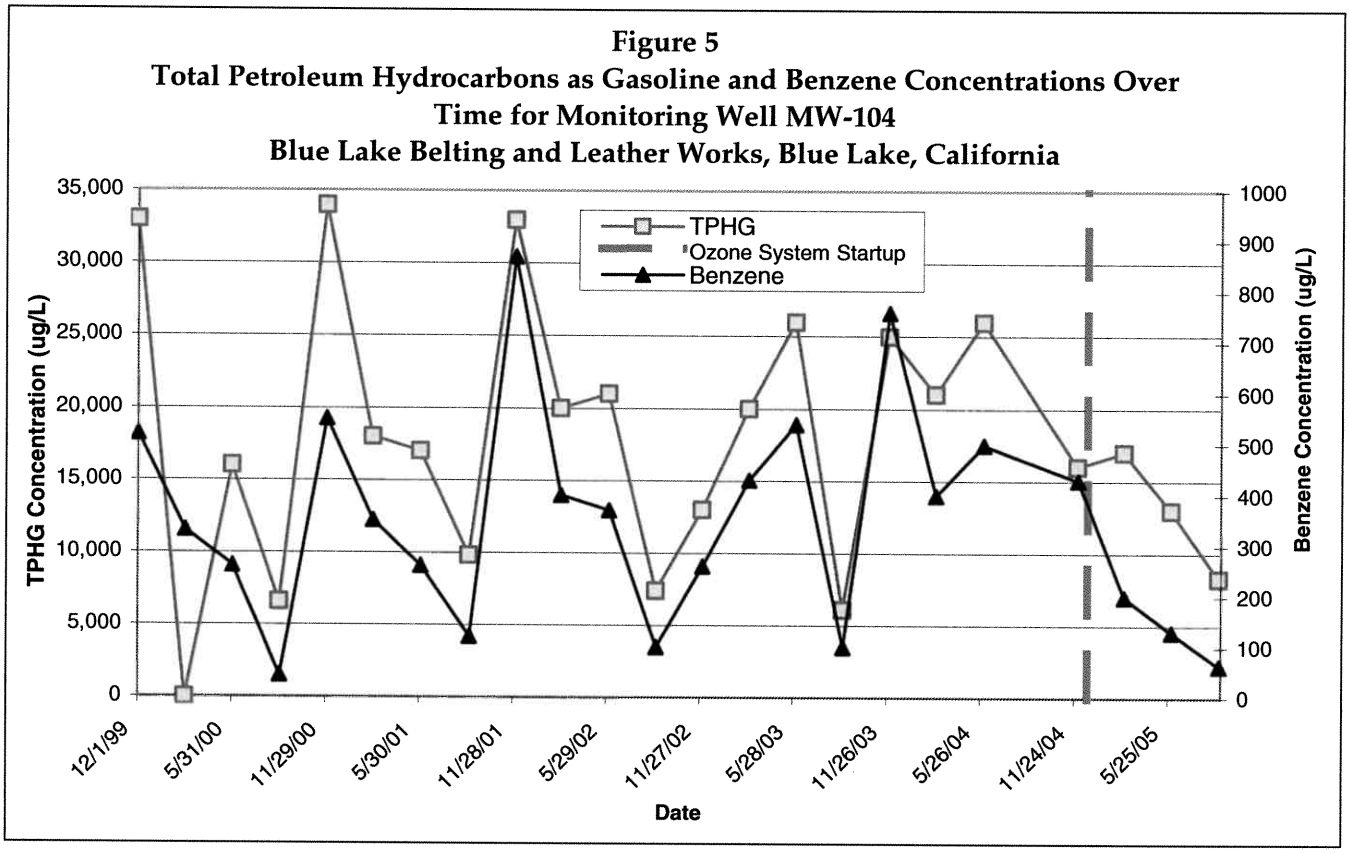
4.0 Remediation System Operation & Maintenance

The ozone sparge system was started up on December 21, 2004, and has operated continually since. During the initial month of operation, the ozone sparge system was monitored weekly to ensure proper operation and adjustments were made as needed. After the initial one-month break-in period, site visits were conducted monthly. Ozone system operation and maintenance site visits will be conducted monthly for the remainder of the system's operation. Standard operation consists of monitoring the flows and pressures of various system components, checking the condition of wellheads, checking for leaks and wear on the ozone system, changing areas of ozone sparging based on groundwater monitoring results, and recording the system operating parameters. Standard maintenance consists of replacing air filters as needed and rebuilding air compressors as needed.

During the third quarter of 2005, site visits were conducted. The field notes are included in Appendix A. Historic ozone system monitoring results are presented in Appendix B, Table B-4.

5.0 Discussion and Recommendations

Information collected during this and previous site investigations continues to indicate that petroleum hydrocarbons are present in groundwater in the vicinity of site wells MW-103, MW-104, and MW-105. The groundwater sample collected from well MW-104 had the highest concentrations of petroleum hydrocarbons. The concentrations of TPHG and benzene over time for groundwater monitoring well MW-104 are shown on Figure 5. This figure illustrates that TPHG and Benzene concentrations have steadily declined in the source area since the ozone sparge system start up.



SHN recommends that quarterly monitoring be continued in conjunction with the operation of the ozone sparge system. Information collected during this monitoring event and the ongoing monitoring program will be used to assess the effectiveness of the remediation system. The next sampling event at the site is scheduled for December 2005. SHN will continue to coordinate with LACO for groundwater monitoring activities.

6.0 References Cited

LACO Associates. (April 1992). *Subsurface Work Plan, Blue Lake Market*. Eureka: LACO.

SHN Consulting Engineers & Geologists, Inc. (September 8, 2000). *Corrective Action Plan, Blue Lake Belting and Leather Works, 411 Railroad Avenue, Blue Lake; California, LOP # 12012*. Eureka: SHN.

---. (November 24, 2003). *Remedial Action Pilot Study Report of Findings, Blue Lake Belting and Leather Works, Case No. 12012*. Eureka: SHN.

Appendix A

Field Notes

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002• Tel: 530.221.5424 • FAX: 530.221.0135 •E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 •E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 097309

PROJECT NAME: Blue Lake Belting and Leather	CLIENT/OWNER: Blue Lake Belting and Leather	DAILY FIELD REPORT SEQUENCE NO: 1
GENERAL LOCATION OF WORK: Blue Lake, CA.	OWNER/CLIENT REPRESENTATIVE: Charles Hantzinger	DATE: 9-1-05 / DAY OF WEEK: Thursday
TYPE OF WORK: Quarterly Sampling	WEATHER: Clear to Hazy	PROJECT ENGINEER/ SUPERVISOR: Mike Foget
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

0836 arrived at site, Removed lids and caps on all 9 wells, MW-3 had water in flush mount bailed out.
0907 I started taking water level Readings decoming the sounder after each well by scrubbing it with liquinox then Rinsing it with DI water.
0933 I started taking DO Readings, secured OBS-1 and OBS-2 with caps and lids, secured MW-1 with cap and lid.
0939 LACO on site.
1019 I started purging MW-106 with a disposable bailer, purge water was caught in a graduated 1 gal. bucket.
1042 I started purging MW-102 with a disposable bailer, purge water was caught in a graduated 3 gal. bucket.
1105 I sampled MW-106, secured well with cap and lid. LACO off site.
1112 I started purging MW-105 with a disposable bailer, purge water was caught in a graduated 1 gal. bucket.
1130 I sampled MW-102, secured well with cap and lid.
1139 I started purging MW-3 with a disposable bailer, purge water was caught in a graduated 1 gal. bucket.
1200 I sampled MW-105, secured well with cap and lid.
1210 I started purging MW-103 with a disposable bailer purge water was caught in a graduated 5 gal. bucket, well went dry.
1230 I sampled MW-3, secured well with cap and lid.
1247 I started purging MW-104 with a disposable bailer, purge water was caught in a graduated 5 gal. bucket.
1315 I sampled MW-103 secured well with cap and lid.
1325 I sampled MW-104, secured well with cap and lid.
1342 OFF SITE

LACO was on site today.

COPY GIVEN TO:

REPORTED BY: David R. Paine

CONSULTING ENGINEERS & GEOLOGISTS, INC.
480 Hemsted Drive • Redding, CA 96002• Tel: 530.221.5424 • FAX: 530.221.0135 •E-mail: shninfo@shn-redding.com
812 W. Wabash • Eureka, CA 95501 • Tel: 707.441.8855 • FAX: 707.441.8877 •E-mail: shninfo@shn-engr.com

DAILY FIELD REPORT

JOB NO 097309

PROJECT NAME: Blue Lake Belting and Leather	CLIENT/OWNER: Blue Lake Belting and Leather	DAILY FIELD REPORT SEQUENCE NO: 1
GENERAL LOCATION OF WORK: Blue Lake, CA.	OWNER/CLIENT REPRESENTATIVE: Charles Hantzinger	DATE: 9-1-05 / DAY OF WEEK: Thursday
TYPE OF WORK: Quarterly Sampling	WEATHER: Hazy clear	PROJECT ENGINEER/ SUPERVISOR: Mike Foget
SOURCE & DESCRIPTION OF FILL MATERIAL	KEY PERSONS CONTACTED	TECHNICIAN: David R. Paine

DESCRIBE EQUIPMENT USED FOR HAULING, SPREADING, WATERING, CONDITIONING, & COMPACTING

Note: All decon water and purge water was caught then poured into a 50 gal plastic drum that I brought in the truck, then transported to SHN's 1,000 gal PWST located at 812 W. Wabash Avenue, Eureka, CA 32 gallons total.

COPY GIVEN TO:

REPORTED BY: David R. Paine

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

Groundwater Elevations

Job No.: 097309 Name: David R. Paine

Client: CHARLES HUNTZINGER Date: 9-1-05

Location: BLUE LAKE, CA Weather: Clear

Sample Location	Time of Reading	Top of Casing Elevation (feet)	Depth To Water (feet)	Water Surface Elevation (feet)
MW101	0910	92.27	DRY	—
MW-102	0913	91.19	12.87	78.32
MW-103	0918	91.57	13.12	78.45
MW-104	0922	91.48	12.68	78.80
MW-105	0916	91.32	13.05	78.27
MW-106	0907	88.88	11.03	77.85
MW-3	0920	91.63	12.92	78.71
OBS-1	0924	89.45	DRY	—
OBS-2	0925	91.29	8.52	82.77

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EQUIPMENT CALIBRATION SHEET

Name: David R. Paine

Project Name: Blue Lake Belting and Leather

Reference No.: 097309

Date: 9-1-05

Equipment: ☒ pH & EC ☐ PID ☐ $GTCO_2$ ☐ GTLEL
☐ Turbidity ☒ Other Dissolved Oxygen Meter YS195

Description of Calibration Procedure and Results:

pH & EC meter is calibrated using a 2 buffer method with 7.01 and 4.01, the EC (conductivity) is set at 1413 µS.

DO meter is self calibrating with the Altimeter set at 1.

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Water Sampling Data Sheet

Project Name:	Blue Lake Belting and Leather	Date/Time:	9-1-05
Project No.:	097309	Sampler Name:	David R. Paine
Location:	Blue Lake, CA	Sample Type:	Ground water
Well #:	MW-101	Weather	Clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
~~[illegible]~~ 13.00	-	DRY	=		x	0.163	=	

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
							0 gal.	
							0. gal.	
							gal.	
	No Flow	No		Sample			gal.	
	than cell						gal.	
	Sample Time							

Purge Method: Hand bail

Total Volume Removed: 0.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
~~MW-101~~	~~3 - 40ml VOA's~~	~~YES / HCL~~	~~NCL~~	~~TPHG / BTEX~~

Well Condition: Good

Remarks: DRY, no sample
Recharged to at sampling Time

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Water Sampling Data Sheet

Project Name:	Blue Lake Belting and Leather	Date/Time:	9-1-05
Project No.:	097309	Sampler Name:	David R. Paine
Location:	Blue Lake, CA	Sample Type:	Ground water
Well #:	MW-106	Weather	Clear
Hydrocarbon Thickness/Depth (feet):	NA	Key Needed:	YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
15.00	-	11.03	=	3.97	x	0.163	=	0.65

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0938	0.92						0 gal.	
1019	↓	20	167				0.25 gal.	
1027	↓			116	59.5°	5.90	0.75 gal.	
1031	No Flow			107	59.4°	5.91	1.50 gal.	
1035	thru cell			106	59.6°	5.96	2 gal.	
1105	Sample Time							

Purge Method: Hand bail

Total Volume Removed: 2.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-106	3 - 40ml VOA's	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good

Remarks:

Recharged to 11.04 at sampling Time

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Water Sampling Data Sheet

Project Name: Blue Lake Belting and Leather
Date/Time: 9-1-05
Project No.: 097309
Sampler Name: David R. Paine
Location: Blue Lake, CA
Sample Type: Ground water
Well #: MW-102
Weather: Clear
Hydrocarbon Thickness/Depth (feet): NA
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
19.50	-	12.87	=	6.63	x	0.163	=	1.08

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0946	1.61						0 gal.	
1042	↓	20	181				0.25 gal.	
1050	↓			105	58.8°	5.98	1.25 gal.	
1054	No Flow			107	58.7°	6.02	2.25 gal.	
1058	than cell			104	58.8°	6.01	3.25 gal.	
1130	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 3.25 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-102	3 - 40ml VOA's	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good
Remarks:
Recharged to 12.87 at sampling Time

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Water Sampling Data Sheet

Project Name: Blue Lake Belting and Leather
Date/Time: 9-1-05
Project No.: 097309
Sampler Name: David R. Paine
Location: Blue Lake, CA
Sample Type: Ground water
Well #: MW-105
Weather: Clear
Hydrocarbon Thickness/Depth (feet): NA
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
15.10	-	13.05	=	2.05	x	0.163	=	0.33

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0952	0.79						0 gal.	
1112	↓	30	-19				0.15 gal.	
1120	↓			128	62.2°	6.11	0.45 gal.	
1123	No Flow			116	62°	6.14	0.80 gal.	
1126	than cell			115	61.9°	6.12	1.05 gal.	
1200	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 1.05 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-105	3 - 40ml VOA's	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good

Remarks:

Recharged to 13.06 at sampling Time

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Water Sampling Data Sheet

Project Name: Blue Lake Belting and Leather
Date/Time: 9-1-05
Project No.: 097309
Sampler Name: David R. Paine
Location: Blue Lake, CA
Sample Type: Ground water
Well #: MW-3
Weather: Clear
Hydrocarbon Thickness/Depth (feet): NA
Key Needed: yes Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
14.70	-	12.92	=	1.78	x	0.163	=	0.29

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1004	0.75						0 gal.	
1139		40	-48				0.15 gal.	
1146				122	63.1°	6.01	0.35 gal.	
1150	No Flow			127	63°	6.09	0.65 gal.	
1153	thru cell			129	62.9°	6.14	1 gal.	
1156				127	62.9°	6.15	1.20 gal.	
1230	sample Time							

Purge Method: Hand Bail
Total Volume Removed: 1.20 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-3	3-40ml VOAs	yes HCL	NCL	TPHG/BTEX

Well Condition: Good
Remarks: Purge water has an odor.
Recharged to 12.92 at sample time

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Water Sampling Data Sheet

Project Name: Blue Lake Belting and Leather
Date/Time: 9-1-05
Project No.: 097309
Sampler Name: David R. Paine
Location: Blue Lake, CA
Sample Type: Ground water
Well #: MW-103
Weather: Clear
Hydrocarbon Thickness/Depth (feet): NA
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
18.65	-	13.12	=	5.53	x	0.653	=	3.61

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
0958	0.76						0 gal.	
1210	↓	40	-11				0.25 gal.	
1218	↓			157	63.7°	6.10	4 gal.	
1223	No Flow			135	63.9°	6.12	7.50 gal.	DRY
1241	than cell			126	63.6°	6.11	12 gal.	DRY
1315	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 12.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-103	3 - 40ml VOA's	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good
Remarks: Purge water has an odor
Recharged to 13.16 at sampling Time

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Water Sampling Data Sheet

Project Name: Blue Lake Belting and Leather
Date/Time: 9-1-05
Project No.: 097309
Sampler Name: David R. Paine
Location: Blue Lake, CA
Sample Type: Ground water
Well #: MW-104
Weather: Clear
Hydrocarbon Thickness/Depth (feet): NA
Key Needed: YES Dolphin

Total Well Depth (feet)	-	Initial Depth to Water (feet)	=	Height of Water Column (feet)	x	0.163 gal/ft (2-inch well) / 0.653 gal/ft (4-inch well)	=	1 Casing Volume (gal)
16.55	-	12.68	=	3.87	x	0.653	=	2.53

Time	DO (ppm)	CO_2 (ppm)	ORP (mV)	EC (uS/cm)	Temp (°F)	pH	Water Removed (gal)	Comments
1011	0.76						0 gal.	
1247	↓	20	-68				0.125 gal.	
1256	↓			138	66.2°	6.30	3.25 gal.	
1300	No Flow			123	66°	6.33	5.25 gal.	
1303	than cell			125	65.9°	6.40	8 gal.	
1325	Sample Time							

Purge Method: Hand bail
Total Volume Removed: 8.00 (gal)

Laboratory Information

Sample ID	# & Type of Containers	Preservative / Type	Laboratory	Analyses
MW-104	3 - 40ml VOA's	YES / HCL	NCL	TPHG / BTEX

Well Condition: Good
Remarks: Purge water has an odor
Recharged to 12.90 at sampling Time

NORTH COAST LABORATORIES LTD.
5680 West End Road · Arcata · CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Mike Foget
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Eureka, CA 95501
Phone: 441-8855
Copies of Report to:
Sampler (Sign & Print): David R. Paine David R. Paine

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☒ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☐ Verbal ☐ By: __/__/__
Final Report: FAX ☐ Verbal ☐ By: __/__/__

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION
Project Number: 097309
Project Name: Blue Lake Bolting and Leather
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHG / BTEX	CONTAINER: 9	PRESERVATIVE: b
	MW-106	9/1/05	1105	GW	X		
	MW-107	↓	1130	↓	X		
	MW-105	↓	1200	↓	X		
	MW-3	↓	1230	↓	X		
	MW-103	↓	1315	↓	X		
	MW-104	↓	1325	↓	X		

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
EDF
Global ID# T0602300012
No MTBE on report
Cooler temp = 11.2°C

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
David R. Paine David R. Paine	9/1/05	K. Thompson	9/1/05 1345

SAMPLE DISPOSAL
☒ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

LACO ASSOCIATES
CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: BLUE LAKE MARKET

Project No.: 3880.01

Tech: RLD

Date: 9-1-05

WELL ID:	METER ACCURACY RANGE				
MW1	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:09				50	0.89
10:41				44	0.89
10:13				42	0.89

WELL ID: MW2					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:37				-2	1.26
10:39				-4	0.85
10:41				-5	0.77
10:43				-5	0.77

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:					
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

LACO ASSOCIATES
CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: BLUE LAKE MARKET
Project No.: 3888.01
Date: 9-1-05
Golbal ID No.: T0602300170
PM: TDN

Tech: RLD
Mob/Demob time: .25/.25
Travel time: .75
Time on site: 9:30
Time off site: 11:00
Mileage: 34

WELL No.:	MW1		MW2		MW3					
DIAMETER (in)	2.0		2.0		2.0					
SCREENED INTERVAL (ft)	5-15		4-14		5-15					
DEPTH TO WATER (ft)	10.91		12.33		12.92					
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING										
FIELD INTRINSICS: pH										
TEMP (°C)										
Ecw (µmohs)										
ORP (mV)	59	42	-6	-5						
DO (mg/L)	0.50	0.89	0.71	0.77						
OTHER (units)	—		—							
PURGE: TIME	10:07	10:13	10:35	10:43						
METHOD (DHP/CB/B)	DHP		DHP							
RATE (Lpm)	0.17		0.19							
VOLUME (L)	1.0		1.5							
COLOR	CLEAR	CLEAR	LIGHT GREY	LIGHT GREY						
ODOR	LIGHT SULFUR MED. RUBBER		LIGHT FUEL							
INTAKE DEPTH (FEET)	13.0		13.5							
SAMPLE: TIME	10:15		10:45							
METHOD (DHP/CB/B)	DHP		DHP							
ANALYTES	TPHg/BTEX		TPHg/BTEX		MEASURE ONLY					
TOTAL DRAWDOWN (FEET)	0.31		0.12							
REMARKS	—		—							
WELL CONDITION	ALL (3) THREE BOLTS STRIPPED		GOOD		GOOD					
WASTE DRUMS	1 DOT ONSITE									

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

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DAILY FIELD REPORT

Job No. 097309

Page of

Project Name: Blue Lake Belting & Leather	Client/Owner	Daily Field Report Sequence No
General Location Of Work	Owner/Client Representative	Date: 9/13/05 — Day Of Week: Tue.
General Contractor	Grading Contractor	Project Engineer: Mike Foget
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor
Source & Description Of Fill Material	Weather: Partly Cloudy	Technician: Dustin Tibbets
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1409 On site. looking for Ozone leak.

4, 6, 7, 8 & 10 solnoid's leak 8 & 6 leak the most
switch out 6 & 8
started system back up and let run for 5 min.
Ozone meter read's = 0.17 ppm

1528 Taking reading from system.
1604 off site

Copy given to:

Reported By: Dustin Tibbets

Blue Lake Belting & Leather Works
097309
Ozone System Monitoring Form

Technician: DCI	Date: 9/13/05
Weather: Sun	Time Onsite: Offsite:
Electric Meter:	Ozone Badge: Positive -or- Negative

- ☐ Don ozone badge and activate,
- ☐ Inspect overall system for leaks, wear, etc.
- ☐ Inspect vaults of monitoring wells, observation wells, sparge wells, and pull box,
- ☐ Inspect air filters (clean or replace),
- ☐ Complete system readings,
- ☐ Inspect ozone badge for positive or negative exposure.

System Readings	
Ozone Generator Flow (scfh)	8
Ozone Generator Pressure (psi)	9
Ozone Output (%)	75 % when left site
Auto Drain Valve	On: 1 (sec) Off: 45 (min)
System Run Time (hr:min)	6200 %

Well	Flow (scfm)	Pressure (psi)	Total Run Time (hr:min)	Programmed Run Time (minutes)	Observations
SP-1	1.2	6	343.51	5	
SP-2	1.15	7	343.26	5	
SP-3	1	10	348.10	10	
SP-4	1.1	8.25	347.1	10	
SP-5	1.1	8	346.33	10	
SP-6	1	9.75	346.14	10	
SP-7	1.05	10	342.45	5	
SP-8	1.2	6	342.48	5	
SP-9	1.1	8	342.42	5	
SP-10	1.1	8	345.38	10	

Comments:

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DAILY FIELD REPORT

Job No. 097309

Page of

Project Name: Blue Lake Belting & Leather	Client/Owner	Daily Field Report Sequence No
General Location Of Work	Owner/Client Representative	Date: 8/18/05 — Day Of Week: Thur.
General Contractor	Grading Contractor	Project Engineer: Mike Foget
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor
Source & Description Of Fill Material	Weather: Over Cast	Technician: Dustin Tibbets
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)	

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1129 On site.
1134 Taking reading on Ozone system.
1200 loaded up.
1210 Off site

Copy given to:

Reported By: Dustin Tibbets

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Blue Lake Belting & Leather Works
097309
Ozone System Monitoring Form

Technician: Dustin Tibbets	Date: 8/18/05
Weather: Over Cast	Time Onsite: 1129 Offsite:
Electric Meter: 06982	Ozone Badge: Positive -or- Negative

- ☐ Don ozone badge and activate,
- ☐ Inspect overall system for leaks, wear, etc.
- ☐ Inspect vaults of monitoring wells, observation wells, sparge wells, and pull box,
- ☐ Inspect air filters (clean or replace),
- ☐ Complete system readings,
- ☐ Inspect ozone badge for positive or negative exposure.

System Readings	
Ozone Generator Flow (scfh)	9
Ozone Generator Pressure (psi)	7
Ozone Output (%)	95 %
Auto Drain Valve	On: 1 (sec) Off: 45 (min)
System Run Time (hr:min)	5729 5/10

Well	Flow (scfm)	Pressure (psi)	Total Run Time (hr:min)	Programmed Run Time (minutes)	Observations
SP-1	1.2	5	312.15	5	
SP-2	1.1	7	311.50	5	
SP-3	1.0	10	285.	10	
SP-4	1.1	9	284.8	10	
SP-5	1.1	8	283.42	10	
SP-6	.9	11	283.28	10	
SP-7	.9	11	311.24	5	
SP-8	1.2	5	311.28	5	
SP-9	1.1	7	311.26	5	
SP-10	1.1	9	283.7	10	

Comments:

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DAILY FIELD REPORT

Job No. 097309

Page of

Project Name: Blue Lake Belting & Leather	Client/Owner	Daily Field Report Sequence No	
General Location Of Work	Owner/Client Representative	Date: 7/8/05	Day Of Week: Fri.
General Contractor	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Sun	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

1157 On site.
1200 Taking reading from system.
1235 off site.

Copy given to:

Reported By: Dustin Tibbets

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Blue Lake Belting & Leather Works
097309
Ozone System Monitoring Form

Technician: DcT	Date: 7/8/05
Weather: Sun	Time Onsite: 1157 Offsite:
Electric Meter: 05968	Ozone Badge: Positive -or- Negative

- ☐ Don ozone badge and activate,
- ☐ Inspect overall system for leaks, wear, etc.
- ☐ Inspect vaults of monitoring wells, observation wells, sparge wells, and pull box,
- ☐ Inspect air filters (clean or replace),
- ☐ Complete system readings,
- ☐ Inspect ozone badge for positive or negative exposure.

System Readings	
Ozone Generator Flow (scfh)	4
Ozone Generator Pressure (psi)	12
Ozone Output (%)	100
Auto Drain Valve	On: 1 (sec) Off: 45 (min)
System Run Time (hr:min)	4746 3/10 (Mechanical on O2 Conc)

Well	Flow (scfm)	Pressure (psi)	Total Run Time (hr:min)	Programmed Run Time (minutes)	Observations
SP-1	1.2	~~8~~ 4	246 : 37	5	
SP-2	1.0	8	246 : 11	5	
SP-3	1.0	8	153 : 47	10	
SP-4	1.0	7	152 : 58	10	
SP-5	1.2	4	152 : 40	10	
SP-6	0.95	9	152 : 28	10	
SP-7	1.0	8	245 : 51	5	
SP-8	1.25	3	245 : 56	5	
SP-9	1.15	4	245 : 51	5	
SP-10	1.0	8	152 : 7	10	

Comments:

SHN ENGINEERS & GEOLOGISTS
812 W. Wabash Ave.
Eureka, CA 95501-2138
Tel. 707 / 441-8855
Fax: 707 / 441-8877

JOB 097309 - Blue Lake Bottling & Co
SHEET NO. 1 OF
CALCULATED BY C. Fisher DATE 12th Sept '05
CHECKED BY DATE
SCALE

Field Notes

- On Site to find minor O_3 leak.

- ~~System~~ shut-down Ozone generator stops producing ozone due to ozone leak. (O_3 sensor trips)

- Check for leaks with soapy solution
  - Distribution manifold (repaired 3 very minor leaks on solenoid valve plugs)
  - Pressure gauge (no leaks)
  - Check valves (2x) (no leaks)
  - Tubing connections (repaired 1 very minor)
  - Conveyance Tubing (S/S) (no leaks) & fittings
  - O_3 Pump Cylinder head (no leaks)

Independent Business Forms Inc.
(530) 221-0611, FAX (530) 221-6671, (800) 729-3700

SHN ENGINEERS & GEOLOGISTS
812 W. Wabash Ave.
Eureka, CA 95501-2138
Tel. 707 / 441-8855
Fax: 707 / 441-8877

JOB Bluelake Rolling & Leather

SHEET NO. 1 OF

CALCULATED BY C. Fisher DATE 31st Aug '05

CHECKED BY DATE

SCALE

Field Notes

- Shut system off for groundwater monitoring 1st Sept @ 17:30
- System operating normally, except slight odor of ozone
  - Ozone odor dissipated after ~1 min.

Independent Business Forms Inc.
(530) 221-0611. FAX (530) 221-6671. (800) 729-3700

Blue Lake Belting & Leather Works
097309
Ozone System Monitoring Form

Technician: C. Fisher	Date: 29th July '05
Weather: Sunny	Time Onsite: 1400 Offsite: 1600
Electric Meter: 06511	Ozone Badge: Positive -or- Negative

- ☐ Don ozone badge and activate,
- ☐ Inspect overall system for leaks, wear, etc.
- ☐ Inspect vaults of monitoring wells, observation wells, sparge wells, and pull box,
- ☐ Inspect air filters (clean or replace),
- ☐ Complete system readings,
- ☐ Inspect ozone badge for positive or negative exposure.

System Readings	
Ozone Generator Flow (scfh)	7
Ozone Generator Pressure (psi)	8
Ozone Output (%)	100
Auto Drain Valve	On: 1 (sec) Off: 45 (min)
System Run Time (hr:min)	316 hr 44 min

Well	Flow (scfm)	Pressure (psi)	Total Run Time (hr:min)	Programmed Run Time (minutes)	Observations
SP-1	1.2	6	5	280:29	
SP-2	1.2	6	5	280:04	
SP-3	1.1	8	10	221:19	
SP-4	1.1	8	10	220:30	
SP-5	1.2	7	10	220:12	
SP-6	1.1	9	10	220:00	
SP-7	1.0	11	5	279:38	
SP-8	1.3	4	5	279:43	
SP-9	1.2	6	5	279:38	
SP-10	1.1	8	10	219:39	

Comments: Installed Thermostat on trailer exhaust fan set to turn on @ 85°F

SHN ENGINEERS & GEOLOGISTS
812 W. Wabash Ave.
Eureka, CA 95501-2138
Tel. 707 / 441-8855
Fax: 707 / 441-8877

JOB 097309- BLB&LW
SHEET NO. 1 OF 1
~~CALCULATED~~ BY Fisher for Foget DATE 27th July '05
CHECKED BY DATE
SCALE

Field Notes

- On-Site to check system operation & (Foget) ambient temperatures inside the O_3 Trailer
- High/Low thermometer was placed in O_3 trailer on 8th July '05 by Dustin Tibbok.
- Foget checked High/Low temps 27th July '05
  - High Temp = 112 °F
  - Low Temp = 72 °F

Ozone Generator readings: O_3 Gen Pressure = 10 psi
O_3 Gen flow = 3+ cfh

Valve 10 open → manifold pressure = 8 psi
→ O_3 Gen flow = 4 cfh

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DAILY FIELD REPORT

Job No. 097309

Page of

Project Name: Blue Lake Belting & Leather	Client/Owner	Daily Field Report Sequence No	
General Location Of Work	Owner/Client Representative	Date: 6/20/05	Day Of Week: Mon.
General Contractor	Grading Contractor	Project Engineer: Mike Foget	
Type Of Work: O&M	Grading Contractor, Superintendent, Or Foreman	Supervisor	
Source & Description Of Fill Material	Weather: Over Cast	Technician: Dustin Tibbets	
	Key Persons Contacted (Civil Engr, Architect, Developer, Etc)		

Describe Equipment Used For Hauling, Spreading, Watering, Conditioning, & Compacting

~~1015 On site set up to drain water tanks~~
1055 On site. set up to replace compresor mounts.
1205 Off site.

Copy given to:

Reported By: Dustin Tibbets

G:\FORMS\DAILY FIELD REPORT.doc

Client Name: **BLUE LAKE BELTING AND LEATHER**

The water from your site: **411 RAILROAD AVENUE**
BLUE LAKE, CA LOP # 12012

SHN ref # **097309** Collected On: **9/1/05**

Has been tested and certified as acceptable to be discharged into the City of Eureka municipal sewer system.

Amount Discharged: **32 GALLONS**

Date Discharged: **10/28/05**

Certified by: **DAVID R. PAINE**

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.
City of Eureka Wastewater Discharge Permit #65

Client Name: **BLUE LAKE BELTING AND LEATHER**

The water from your site: **411 RAILROAD AVENUE BLUE LAKE, CA LOP # 12012**

SHN ref # **097309** Collected On: **6/1/05**

Has been tested and certified as acceptable to be discharged into the City of Eureka municipal sewer system.

Amount Discharged: **79 GALLONS**

Date Discharged: **7/21/05**

Certified by: **DAVID R. PAINE**

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.

City of Eureka Wastewater Discharge Permit #65

Client Name: **BLUE LAKE BELTING AND LEATHER**

The water from your site: **411 RAILROAD AVENUE BLUE LAKE, CA LOP # 12012**

SHN ref # **097309** Collected On: **3/1/05**

Has been tested and certified as acceptable to be discharged into the City of Eureka municipal sewer system.

Amount Discharged: **74 GALLONS**

Date Discharged: **4/29/05**

Certified by: **DAVID R. PAINE**

SHN CONSULTING ENGINEERS & GEOLOGISTS, INC.

City of Eureka Wastewater Discharge Permit #65

Appendix B

Historic Monitoring Data

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet)[1]	Depth to Water (feet)[2]	Groundwater Elevation (feet)[3]
MW-101	12/01/99	91.89	6.24	85.65
	03/01/00		6.49	85.40
	06/01/00		7.89	84.00
	09/01/00		13.57	78.32
	12/01/00		7.57	84.32
	03/01/01		7.59	84.30
	06/01/01		9.70	82.19
	09/04/01		13.64	78.25
	12/03/01		5.84	86.05
	03/01/02		7.18	84.71
	06/03/02		9.13	82.76
	09/03/02		13.66	78.23
	12/02/02		13.16	78.73
	03/03/03		7.38	84.51
	06/02/03		7.81	84.08
	09/02/03		13.50	78.39
	12/01/03		7.31	84.58
	03/01/04		6.60	85.29
	06/01/04		7.94	83.95
	09/02/04		13.40	78.49
	12/01/04		7.96	83.93
	03/01/05	92.27	7.80	84.47
	06/01/05		8.01	84.26
	09/01/05		dry	
MW-102	12/01/99	91.19	7.23	83.96
	03/01/00		7.23	83.96
	06/01/00		8.12	83.07
	09/01/00		13.48	77.71
	12/01/00		7.83	83.36
	03/01/01		7.92	83.27
	06/01/01		10.43	80.76
	09/04/01		13.68	77.51
	12/03/01		6.83	84.36
	03/01/02		7.56	83.63
	06/03/02		9.87	81.32
	09/03/02		13.73	77.46
	12/02/02		13.21	77.98
	03/03/03		7.62	83.57
	06/02/03		8.02	83.17

Table B-1 Historic Groundwater Elevations Blue Lake Belting & Leather Works, Blue Lake, California				
Location	Date	Top of Casing Elevation (feet)[1]	Depth to Water (feet)[2]	Groundwater Elevation (feet)[3]
MW-102 (cont'd)	09/02/03	91.19	13.40	77.79
	12/01/03		7.65	83.54
	03/01/04		7.23	83.96
	06/01/04		8.29	82.90
	09/02/04		13.43	77.76
	12/01/04		8.02	83.17
	03/01/05		7.66	83.53
	06/01/05		7.80	83.39
	09/01/05		12.87	78.32
MW-103	12/01/99	91.57	7.41	84.16
	03/01/00		7.48	84.09
	06/01/00		8.44	83.13
	09/01/00		13.77	77.80
	12/01/00		8.09	83.48
	03/01/01		8.21	83.36
	06/01/01		10.71	80.86
	09/04/01		13.99	77.58
	12/03/01		6.99	84.58
	03/01/02		7.89	83.68
	06/03/02		10.23	81.34
	09/03/02		14.06	77.51
	12/02/02		13.50	78.07
	03/03/03		7.97	83.60
	06/02/03		8.38	83.19
	09/02/03		13.65	77.92
	12/01/03		7.93	83.64
	03/01/04		7.54	84.03
	06/01/04		8.60	82.97
	09/02/04		13.73	77.84
	12/01/04		8.32	83.25
	03/01/05		7.91	83.66
	06/01/05		8.09	83.48
	09/01/05		13.12	78.45
MW-104	12/01/99	91.48	6.58	84.90
	03/01/00		6.76	84.72
	06/01/00		8.03	83.45
	09/01/00		13.48	78.00
	12/01/00		7.63	83.85
	03/01/01		7.74	83.74

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet)[1]	Depth to Water (feet)[2]	Groundwater Elevation (feet)[3]
MW-104 (cont'd)	06/01/01	91.48	9.94	81.54
	09/04/01		13.67	77.81
	12/03/01		6.15	85.33
	03/01/02		7.35	84.13
	06/03/02		9.40	82.08
	09/03/02		13.80	77.68
	12/02/02		13.01	78.47
	03/03/03		7.51	83.97
	06/02/03		7.93	83.55
	09/02/03		13.30	78.18
	12/01/03		7.36	84.12
	03/01/04		6.76	84.72
	06/01/04		8.05	83.43
	09/02/04		13.29	78.19
	12/01/04		8.01	83.47
	03/01/05		7.51	83.97
	06/01/05		7.72	83.76
	09/01/05		12.68	78.80
MW-105	12/01/99	91.32	7.25	84.07
	03/01/00		7.30	84.02
	06/01/00		8.25	83.07
	09/01/00		13.64	77.68
	12/01/00		7.91	83.41
	03/01/01		8.04	83.28
	06/01/01		10.57	80.75
	09/04/01		13.85	77.47
	12/03/01		6.84	84.48
	03/01/02		7.69	83.63
	06/03/02		10.01	81.31
	09/03/02		13.91	77.41
	12/02/02		13.39	77.93
	03/03/03		7.75	83.57
	06/02/03		8.17	83.15
	09/02/03		13.58	77.74
	12/01/03		7.76	83.56
	03/01/04		7.35	85.97
	06/01/04		8.44	82.88
	09/02/04		13.61	77.71
	12/01/04		8.15	83.17

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet)[1]	Depth to Water (feet)[2]	Groundwater Elevation (feet)[3]
MW-105 (cont'd)	03/01/05	91.32	7.76	83.56
	06/01/05		7.94	83.38
	09/01/05		13.05	78.27
MW-106	12/01/99	88.88	5.30	83.58
	03/01/00		5.22	83.66
	06/01/00		6.09	82.79
	09/01/00		11.68	77.20
	12/01/00		5.81	83.07
	03/01/01		5.91	82.97
	06/01/01		8.45	80.43
	09/04/01		11.92	76.96
	12/03/01		4.96	83.92
	03/01/02		5.59	83.29
	06/03/02		7.91	80.97
	09/03/02		11.99	76.89
	12/02/02		11.43	77.45
	03/03/03		5.64	83.24
	06/02/03		6.04	82.84
	09/02/03		11.58	77.30
	12/01/03		5.71	83.17
	03/01/04		5.24	83.64
	06/01/04		6.27	82.61
	09/02/04		11.65	77.23
	12/01/04		5.98	82.90
	03/01/05		5.62	83.26
	06/01/05		5.79	83.09
	09/01/05		11.03	77.85
MW-1	12/01/99	89.45 [4]	5.05	84.40
	03/01/00		5.11	84.34
	06/01/00		6.64	82.81
	09/01/00		NA[5]	NA
	12/01/00		7.45	82.00
	03/01/01		6.40	83.05
	12/03/01		4.47	84.98
	03/01/02		4.93	84.52
	06/05/02		8.45	81.00
	09/03/02		12.01	77.44
	01/02/03		4.56	84.89
	03/03/03		NA	NA

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet)[1]	Depth to Water (feet)[2]	Groundwater Elevation (feet)[3]
MW-1 (cont'd)	06/02/03	89.45 [4]	6.65	82.80
	09/11/03		NA	NA
	12/01/03		5.54	83.91
	03/01/04		5.68	83.77
	09/02/04		11.73	77.72
	12/01/04		6.58	82.87
	03/01/05		5.96	83.49
	06/01/05		6.47	82.98
	09/01/05		10.91	78.54
MW-2	12/01/99	91.29 [4]	6.25	85.04
	03/01/00		6.43	84.86
	06/01/00		7.82	83.47
	09/01/00		NA	NA
	12/01/00		6.09	85.20
	03/01/01		7.54	83.75
	12/03/01		5.74	85.55
	03/01/02		6.44	84.85
	06/05/02		9.32	81.97
	09/03/02		12.90	78.39
	01/02/03		5.78	85.51
	03/03/03		7.37	83.92
	06/02/03		7.81	83.48
	09/11/03		NA	NA
	12/01/03		7.01	84.28
	03/01/04		6.95	84.34
	09/02/04		13.81	77.48
	12/01/04		7.88	83.41
	03/01/05		7.33	83.96
	06/01/05		7.62	83.67
	09/01/05		12.33	78.96
MW-3	12/01/99	91.63 [4]	7.29	84.34
	03/01/00		7.25	84.38
	06/01/00		8.36	83.27
	09/01/00		NA	NA
	12/01/00		8.07	83.56
	03/01/01		8.36	83.27
	12/03/01		6.78	84.85
	03/01/02		7.33	84.30
	06/05/02		10.23	81.40

Table B-1
Historic Groundwater Elevations
Blue Lake Belting & Leather Works, Blue Lake, California

Location	Date	Top of Casing Elevation (feet)[1]	Depth to Water (feet)[2]	Groundwater Elevation (feet)[3]
MW-3 (cont'd)	09/03/02	91.63 [4]	13.88	77.75
	01/02/03		6.95	84.68
	03/03/03		7.95	83.68
	06/02/03		8.42	83.21
	09/11/03		NA	NA
	12/01/03		7.83	83.80
	03/01/04		7.61	84.02
	09/02/04		13.68	77.95
	12/01/04		8.39	83.24
	03/01/05		7.84	83.79
	06/01/05		8.07	83.56
	09/01/05		12.92	78.71

1. Referenced to top of casing elevation of Blue Lake Market well MW-1
2. Below top of casing
3. In feet, relative to Blue Lake Market well MW-1 top of casing elevation
4. Top of casing elevation surveyed relative mean sea level
5. NA: Not Available

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)[1]

Well Location	Sampling Date	TPHG[2]	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE[3]	TBA[3]	DIPE[3]	ETBE[3]	TAME[3]
MW-101	12/1/99	<50[4]	<0.50	<0.50	<0.50	<0.50	<0.50	NA[5]	<0.50	<10	<1.0	<1.0	<1.0
	3/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	NA	NA	NA	NA
	9/1/00	NS[6]	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	12/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	3/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	9/4/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/3/01	**160**	<0.50	<4.0	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	3/1/02	<50	<0.50	<4.0	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	12/2/02	**64**	<0.50	<2.8	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	3/3/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	6/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/2/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/03	<50	<0.50	<1.4	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	3/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	6/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	9/2/04	**90**	<0.50	<3.0	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	12/1/04	**Not Sampled**											
	3/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	6/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	9/1/05	**Not Sampled**											
MW-102	12/1/99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<10	<1.0	<1.0	<1.0
	3/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	NA	NA	NA	NA
	9/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA
	12/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)[1]

Well Location	Sampling Date	TPHG[2]	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE[3]	TBA[3]	DIPE[3]	ETBE[3]	TAME[3]
MW-102 (cont'd)	3/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/4/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	12/3/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	3/1/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	12/2/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	3/3/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	<3.0	NA	NA	NA
	6/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<3.0	NA	NA	NA	NA
	12/1/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	3/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	6/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	9/2/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	12/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	3/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	6/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	9/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
MW-103	12/1/99	**2,200**	**27**	**14**	**26**	**47**	**11**	NA	<1.0	<20	<2.0	<2.0	<2.0
	3/1/00	**3,200[7]**	**47**	**93**	**55**	**130**	**47**	NA	<30	NA	NA	NA	NA
	6/1/00	**2,200**	**12**	**7.3**	**24**	**30**	**12**	<20	<0.50	NA	NA	NA	NA
	9/1/00	**2,300**	**23**	**2.8**	**18**	**12**	**1.2**	NA	<0.50	NA	NA	NA	NA
	12/1/00	**4,900**	**43**	**48**	**50**	**73**	**14**	<80	NA	NA	NA	NA	NA
	3/1/01	**2,900**	**27**	**37**	**35**	**49**	**14**	NA	<60	NA	NA	NA	NA
	6/1/01	**3,200**	**42**	<80	**16**	**21**	**9.4**	NA	<30	NA	NA	NA	NA
	9/4/01	**1,300**	**18**	<40	**7.9**	**5.4**	<3.0	NA	<32	NA	NA	NA	NA
	12/3/01	**5,700**	**150**	**160**	**95**	**180**	**39**	NA	<150	NA	NA	NA	NA
	3/1/02	**5,700**	**100**	**170**	**83**	**260**	**120**	NA	<150	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)[1]

Well Location	Sampling Date	TPHG[2]	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE[3]	TBA[3]	DIPE[3]	ETBE[3]	TAME[3]
MW-103 (cont'd)	6/3/02	13,900	25	<110	35	33	17	NA	<3.0	NA	NA	NA	NA
	9/3/02	1,600	21	<35	11	7	<5.0	NA	<30	NA	NA	NA	NA
	12/2/02	5,700	280	110	190	300	36	NA	<120	NA	NA	NA	NA
	3/3/03	4,400	47	<200	74	170	59	NA	NA	NA	NA	NA	NA
	6/2/03	2,400	14	<70	15	12	5.3	NA	<30	NA	NA	NA	NA
	9/2/03	1,500	18	<45	13	9.5	<5.0	<10	<30	NA	NA	NA	NA
	12/1/03	3,500	49	<90	48	49	9.6	NA	NA	NA	NA	NA	NA
	3/1/04	5,800	100	160	130	260	83	NA	NA	NA	NA	NA	NA
	6/1/04	2,100	15	<110	32	26	14	NA	NA	NA	NA	NA	NA
	9/2/04	3,700	55	49	140	150	18	NA	NA	NA	NA	NA	NA
	12/1/04	2,400	42	40	41	39	8.4	NA	NA	NA	NA	NA	NA
	3/1/05	3,700	58	82	67	92	33	NA	NA	NA	NA	NA	NA
	6/1/05	2,700	33	47	46	66	13	NA	NA	NA	NA	NA	NA
	9/1/05	7,400	130	110	230	410	36	NA	NA	NA	NA	NA	NA
MW-104	12/1/99	33,000	520	590	1,500	4,300	350	NA	<25.0	<500	<50.0	<50.0	<50.0
	3/1/00	15,000[7]	330	460	770	2,100	210	NA	<300	NA	NA	NA	NA
	6/1/00	16,000	260	490	770	1,900	200	<20	<10	NA	NA	NA	NA
	9/1/00	6,600	43	45	190	260	19	NA	<1.0	NA	NA	NA	NA
	12/1/00	34,000	550	440	1,300	3,400	200	<300	NA	NA	NA	NA	NA
	3/1/01	18,000	350	440	740	1,700	170	NA	<600	NA	NA	NA	NA
	6/1/01	17,000	260	320	540	1,400	110	NA	<300	NA	NA	NA	NA
	9/4/01	9,800	120	<200	330	510	36	NA	<400	NA	NA	NA	NA
	12/3/01	33,000	870	520	1600	4,400	250	NA	<900	NA	NA	NA	NA
	3/1/02	20,000	400	450	930	2,300	180	NA	<650	NA	NA	NA	NA
	6/3/02	21,000	370	880	890	2,300	310	NA	<80	NA	NA	NA	NA
	9/3/02	7,400	100	<200	270	320	41	NA	<150	NA	NA	NA	NA
	12/2/02	13,000	260	210	630	1,100	91	NA	<320	NA	NA	NA	NA
	3/3/03	20,000	430	560	950	2,100	230	NA	NA	NA	NA	NA	NA
	6/2/03	26,000	540	1,100	1,300	3,100	530	NA	<600	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)[1]

Well Location	Sampling Date	TPHG[2]	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE[3]	TBA[3]	DIPE[3]	ETBE[3]	TAME[3]
MW-104 (cont'd)	9/2/03	**6,100**	**100**	**110**	**260**	**420**	**59**	<10	<300	NA	NA	NA	NA
	12/1/03	**25,000**	**760**	**520**	**1,300**	**2,500**	**200**	NA	NA	NA	NA	NA	NA
	3/1/04	**21,000**	**400**	**460**	**1,000**	**1,800**	**210**	NA	NA	NA	NA	NA	NA
	6/1/04	**26,000**	**500**	**680**	**1,200**	**2,100**	**320**	NA	NA	NA	NA	NA	NA
	12/1/04	**16,000**	**430**	**460**	**990**	**1,900**	**190**	NA	NA	NA	NA	NA	NA
	3/1/05	**17,000**	**200**	**350**	**590**	**1,100**	**180**	NA	NA	NA	NA	NA	NA
	6/1/05	**13,000**	**130**	**230**	**490**	**870**	**140**	NA	NA	NA	NA	NA	NA
	9/1/05	**8,300**	**63**	**88**	**270**	**480**	**39**	NA	NA	NA	NA	NA	NA
MW-105	12/1/99	**2,000**	**4.0**	**1.7**	**12**	**2.1**	<0.50	NA	<0.50	<10	<1.0	<1.0	<1.0
	3/1/00	**610**[7]	<3.0	<15	<3.0	<2.0	<1.0	NA	<3.0	NA	NA	NA	NA
	6/1/00	**460**	<0.50	<0.50	**0.65**	<0.50	<0.50	<20	<0.50	NA	NA	NA	NA
	9/1/00	**830**	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA
	12/1/00	**3,100**[7]	<12	<25	**8.0**	**3.0**	**0.71**	<20	NA	NA	NA	NA	NA
	3/1/01	**890**	<3.0	<10[8]	**2.0**	<2.0[8]	<0.50	NA	<20	NA	NA	NA	NA
	6/1/01	**430**	<0.50	<7.0	<1.2	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/4/01	**650**	<4.0	<9.0	<1.5	<1.2	<1.0	NA	<13	NA	NA	NA	NA
	12/3/01	**4,700**	**11**	<40	**18**	**6.3**	**1.8**	NA	<100	NA	NA	NA	NA
	3/1/02	**260**	**1.7**	<6.0	<0.50	<0.50	<0.50	NA	<6.0	NA	NA	NA	NA
	6/3/02	**140**[7]	<0.50	<3.0[9]	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/3/02	**360**[7]	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	12/2/02	**680**	**6.0**	<11	**2.1**	**0.82**	<2.0	NA	<13	NA	NA	NA	NA
	3/3/03	**280**	<1.5	<5.5	<1.0	<1.0	<0.50	NA	NA	NA	NA	NA	NA
	6/2/03	**210**	<0.50	<5.5	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/2/03	**250**	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<3.0	NA	NA	NA	NA
	12/1/03	**1,500**	<5.0	<40	**3.8**	**1.6**	<1.5	NA	NA	NA	NA	NA	NA
	3/1/04	**390**	<2.0	<17	**0.93**	**0.53**	<0.5	NA	NA	NA	NA	NA	NA
	6/1/04	**210**	<0.50	<12	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	9/2/04	**210**	<0.50	<9	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	12/1/04	**590**	<2.0	<18	**1.3**	**0.73**	<1.0	NA	NA	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)[1]

Well Location	Sampling Date	TPHG[2]	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE[3]	TBA[3]	DIPE[3]	ETBE[3]	TAME[3]
MW-105 (cont'd)	3/1/05	**680**	<2.5	<30	<2.0	<1.5	<1.0	NA	NA	NA	NA	NA	NA
	6/1/05	**510**	**1.7**	**9.8**	**0.50**	**0.57**	<0.50	NA	NA	NA	NA	NA	NA
	9/1/05	**470**	**8.2**	<15	**3.6**	**0.95**	**1.2**	NA	NA	NA	NA	NA	NA
MW-106	12/1/99	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	<10	<1.0	<1.0	<1.0
	3/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	NA	NA	NA	NA
	9/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<0.50	NA	NA	NA	NA
	12/1/00	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	3/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/1/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/4/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	12/3/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	3/1/02	<50	**0.74**	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/3/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	12/2/02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	3/3/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	6/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	9/2/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10	<3.0	NA	NA	NA	NA
	12/1/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	3/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	6/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	9/2/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	12/1/04	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	3/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	6/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
	9/1/05	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA	NA
MW-1[10]	12/3/01	**71**	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<1.0	NA	NA	NA	NA
	3/1/02	**420**	**11**	<0.50	**5.4**	**3.8**	<0.50	NA	<27	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)[1]

Well Location	Sampling Date	TPHG[2]	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE[3]	TBA[3]	DIPE[3]	ETBE[3]	TAME[3]
MW-1[10] (cont'd)	6/3/02	**2,400** [7]	**63**	**32**	**49**	**30**	**9**	NA	<70	NA	NA	NA	NA
	9/3/02	**3,800** [7]	**210**	<70	**29**	<25	<12	NA	<110	NA	NA	NA	NA
	1/2/03	**400**	<2.0	<4.0		<0.50	<1.0	NA	<10	NA	NA	NA	NA
	3/3/03	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<3.0	NA	NA	NA	NA
	6/2/03	**1,300**	**43**	<30	**29**	**9.6**	<8.0	NA	<30	NA	NA	NA	NA
	9/11/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/03	**1,500**	**38**	<20	**19**	**14**	<4.0	NA	<80	NA	NA	NA	NA
	3/1/04	Data Not Available											
	6/7/04	Data Not Available											
	9/2/04	**1,000**	**37**	<19	<5.0	<3.0 [11]	<3.0 [11]	NA	<40	NA	NA	NA	NA
	12/1/04	**330**	**4.8**	<4.0	**1.7**	**0.91**	<1.0	NA	NA	NA	NA	NA	NA
	3/1/05	**990**	<10	<15	<15	<7.0	<3.0	NA	<35	NA	NA	NA	NA
	6/1/05	**2,600**	**27**	<30	**18**	**10**	<5.0	NA	<80	NA	NA	NA	NA
	9/1/05	**1,700**	**24**	<25	<10	<10	<10	NA	<60	NA	NA	NA	NA
MW-2[10]	12/3/01	**4,700**	**7.3**	**42**	**110**	**500**	**150**	NA	<1.0	NA	NA	NA	NA
	3/1/02	**15,000**	**29**	**290**	**640**	**2,000**	**600**	NA	<70	NA	NA	NA	NA
	6/3/02	**3,400** [7]	**9.8**	**21**	**87**	**190**	**63**	NA	<11	NA	NA	NA	NA
	9/3/02	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	1/2/03	**12,000**	<25	**97**	**470**	**1,700**	**210**	NA	<150	NA	NA	NA	NA
	3/3/03	**270**	<0.50	<5.5	**2.4**	**8.1**	**4.2**	NA	<3.0	NA	NA	NA	NA
	6/2/03	**860**	**0.75**	**6.6**	**28**	**63**	**12**	NA	<3.0	NA	NA	NA	NA
	9/11/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/03	**6,700**	**14**	**52**	**330**	**970**	**160**	NA	<30	NA	NA	NA	NA
	3/1/04	Data Not Available											
	6/7/04	Data Not Available											
	9/2/04	**2,600**	**16**	**26**	**92**	**258** [11]	**258** [11]	NA	<3.0	NA	NA	NA	NA
	12/1/04	**2,200**	**5.2**	**15**	**110**	**270**	**21**	NA	NA	NA	NA	NA	NA
	3/1/05	**1,100**	<2.0	**10**	**19**	**48**	**7.9**	NA	<3.0	NA	NA	NA	NA

Table B-2
Historic Groundwater Contaminant Levels
Blue Lake Belting & Leather Works, Blue Lake, California
(in ug/L)[1]

Well Location	Sampling Date	TPHG[2]	Benzene	Toluene	Ethyl-Benzene	m,p-Xylene	o-Xylene	Dissolved Lead	MTBE[3]	TBA[3]	DIPE[3]	ETBE[3]	TAME[3]
MW-2[10]	6/1/05	**970**	**1.1**	<15	**9**	**17**	**4.1**	NA	<3.0	NA	NA	NA	NA
(cont'd)	9/1/05	**3,200**	**19**	**57**	**130**	**380**	**30**	NA	<30	NA	NA	NA	NA
MW-3[10]	12/3/01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	<1.0	NA	NA	NA	NA
	3/1/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/3/02	**8,100**	**28**	<140	**69**	**130**	**17**	NA	<250	NA	NA	NA	NA
	9/3/02	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	NS	NS
	1/2/03	**23,000**	**390**	**2,700**	**810**	**3,000**	**1,000**	NA	<150	NA	NA	NA	NA
	3/3/03	**7,500**	**32**	<180	**62**	**360**	**55**	NA	<200	NA	NA	NA	NA
	6/2/03	**5,600**	**36**	<110	**86**	**160**	**20**	NA	<170	NA	NA	NA	NA
	9/11/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/03	**10,000**	**77**	**120**	**200**	**540**	**54**	NA	<400	NA	NA	NA	NA
	3/1/04	Data Not Available											
	6/7/04	Data Not Available											
	9/2/04	**4,500**	**59**	**50**	**73**	**109** [11]	**109** [11]	NA	<140	NA	NA	NA	NA
	12/1/04	**7,500**	**120**	**340**	**180**	**470**	**84**	NA	NA	NA	NA	NA	NA
	3/1/05	**11,000**	**160**	**690**	**370**	**790**	**220**	NA	NA	NA	NA	NA	NA
	6/1/05	**10,000**	**120**	**480**	**340**	**650**	**170**	NA	NA	NA	NA	NA	NA
	9/1/05	**6,700**	**68**	**160**	**110**	**180**	**28**	NA	NA	NA	NA	NA	NA

1. ug/L: micrograms per Liter
2. TPHG: Total Petroleum Hydrocarbons as Gasoline
3. MTBE: Methyl Tertiary-Butyl Ether; TBA: Tertiary-Butyl Alcohol; DIPE: Diisopropyl Ether; ETBE: Ethyl Tertiary-Butyl Ether; TAME: Tertiary-Amyl Methyl Ether
4. <: Denotes a value that is "less than" the method detection limit.
5. NA: Not Applicable/Analyzed/Available
6. NS: Not Sampled
7. Samples do not have the typical pattern of fresh gasoline. However, the results represent the amount of material in the gasoline range.
8. Results for samples are reported ND with a dilution due to matrix interference.
9. Reporting limits raised due to matrix interference.
10. Well sampled by LACO Associates for Blue Lake Market.
11. Analytical result represents total xylenes.

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO[1] (ppm)[2]	DCO_2[3] (ppm)	ORP[4] (mV)[5]	Alkalinity (mg/L $CaCO_3$) [6]	Dissolved Methane (ug/L)[7]	Dissolved Iron (ug/L)	Sulfate (mg/L)[8]	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-101	12/01/99	1.98	40	0	NA[9]	27.1	380	15	0.97	NA
	03/01/00	3.67	40	280	55	<7.89[10]	<100	13	1.5	28
	06/01/00	1.15	40	235	45	<7.89	<100	10	1.3	16
	09/01/00	0.55	NA	NA	NA	NA	NA	NA	NA	NA
	12/01/00	0.83	40	165	NA	NA	NA	NA	NA	NA
	03/01/01	1.35	25	97	NA	NA	NA	NA	NA	NA
	06/01/01	0.38	30	112	NA	NA	NA	NA	NA	NA
	09/04/01	0.49	NA	90	NA	NA	NA	NA	NA	NA
	12/03/01	0.74	30	106	NA	NA	NA	NA	NA	NA
	03/01/02	1.23	30	172	NA	NA	NA	NA	NA	NA
	06/03/02	0.86	30	117	NA	NA	NA	NA	NA	NA
	09/03/02	1.34	NA	164	NA	NA	NA	NA	NA	NA
	12/02/02	0.73	50	175	NA	NA	NA	NA	NA	NA
	03/03/03	1.21	25	242	NA	NA	NA	NA	NA	NA
	06/02/03	1.52	40	240	NA	NA	NA	NA	NA	NA
	09/02/03	1.47	45	203	NA	NA	NA	NA	NA	NA
	12/01/03	1.75	30	251	NA	NA	NA	NA	NA	NA
	03/01/04	2.39	15	270	NA	NA	NA	NA	NA	NA
	06/01/04	0.98	30	191	NA	NA	NA	NA	NA	NA
	09/02/04	1.12	35	117	NA	NA	NA	NA	NA	NA
	12/01/04	1.95	NA	NA	NA	NA	NA	NA	NA	NA
	03/01/05	6.08	25	132	NA	NA	NA	NA	NA	NA
	06/01/05	5.11	15	164	NA	NA	NA	NA	NA	NA
	09/01/05	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-102	12/01/99	3.40	30	13	NA	<7.89	<100	11	1.3	NA
	03/01/00	4.16	20	305	32	<7.89	<100	7.5	1.4	<2.0
	06/01/00	3.20	20	245	31	<7.89	<100	7	0.74	<2.0

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO[1] (ppm)[2]	DCO_2[3] (ppm)	ORP[4] (mV)[5]	Alkalinity (mg/L $CaCO_3$) [6]	Dissolved Methane (ug/L)[7]	Dissolved Iron (ug/L)	Sulfate (mg/L)[8]	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-102 (cont'd)	09/01/00	1.72	30	155	NA	<7.89	<15	5.8	0.77	NA
	12/01/00	4.08	30	165	NA	NA	NA	NA	NA	NA
	03/01/01	3.08	20	55	NA	NA	NA	NA	NA	NA
	06/01/01	2.96	30	158	NA	NA	NA	NA	NA	NA
	09/04/01	1.63	20	97	NA	NA	NA	NA	NA	NA
	12/03/01	3.18	20	NA	NA	NA	NA	NA	NA	NA
	03/01/02	3.84	20	159	NA	NA	NA	NA	NA	NA
	06/03/02	3.49	25	130	NA	NA	NA	NA	NA	NA
	09/03/02	1.64	15	162	NA	NA	NA	NA	NA	NA
	12/02/02	1.35	25	180	NA	NA	NA	NA	NA	NA
	03/03/03	4.10	20	249	NA	NA	NA	NA	NA	NA
	06/02/03	3.91	30	231	NA	NA	NA	NA	NA	NA
	09/02/03	2.04	15	231	NA	NA	NA	NA	NA	NA
	12/01/03	3.37	25	254	NA	NA	NA	NA	NA	NA
	03/01/04	3.46	15	278	NA	NA	NA	NA	NA	NA
	06/01/04	3.18	30	185	NA	NA	NA	NA	NA	NA
	09/02/04	1.46	20	102	NA	NA	NA	NA	NA	NA
	12/01/04	4.64	20	158	NA	NA	NA	NA	NA	NA
	03/01/05	4.51	25	158	NA	NA	NA	NA	NA	NA
	06/01/05	2.93	15	175	NA	NA	NA	NA	NA	NA
	09/01/05	1.61	20	181	NA	NA	NA	NA	NA	NA
MW-103	12/01/99	0.74	40	3	NA	396	2,900	3.8	<0.10	NA
	03/01/00	1.18	30	10	55	377	3,200	3.5	<0.10	390
	06/01/00	0.48	40	15	45	137	2,700	3.2	<0.50	320
	09/01/00	0.47	80	5	NA	133	1,900	2.4	<0.10	NA
	12/01/00	0.71	70	-35	NA	NA	NA	NA	NA	NA
	03/01/01	0.28	30	73	NA	NA	NA	NA	NA	NA

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO[1] (ppm)[2]	DCO_2[3] (ppm)	ORP[4] (mV)[5]	Alkalinity (mg/L $CaCO_3$) [6]	Dissolved Methane (ug/L)[7]	Dissolved Iron (ug/L)	Sulfate (mg/L)[8]	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-103 (cont'd)	06/01/01	0.12	40	165	NA	NA	NA	NA	NA	NA
	09/04/01	0.15	80	80	NA	NA	NA	NA	NA	NA
	12/03/01	0.34	35	112	NA	NA	NA	NA	NA	NA
	03/01/02	0.72	40	156	NA	NA	NA	NA	NA	NA
	06/03/02	0.35	35	150	NA	NA	NA	NA	NA	NA
	09/03/02	0.23	65	146	NA	NA	NA	NA	NA	NA
	12/02/02	0.49	60	198	NA	NA	NA	NA	NA	NA
	03/03/03	0.78	30	252	NA	NA	NA	NA	NA	NA
	06/02/03	1.30	125	208	NA	NA	NA	NA	NA	NA
	09/02/03	1.09	60	239	NA	NA	NA	NA	NA	NA
	12/01/03	0.98	35	274	NA	NA	NA	NA	NA	NA
	03/01/04	0.72	35	275	NA	NA	NA	NA	NA	NA
	06/01/04	0.55	70	54	NA	NA	NA	NA	NA	NA
	09/02/04	0.54	70	21	NA	NA	NA	NA	NA	NA
	12/01/04	1.43	35	73	NA	NA	NA	NA	NA	NA
	03/01/05	2.74	40	105	NA	NA	NA	NA	NA	NA
	06/01/05	0.80	35	-6	NA	NA	NA	NA	NA	NA
	09/01/05	0.76	40	-11	NA	NA	NA	NA	NA	NA
MW-104	12/01/99	0.80	60	10	NA	2740	3,600	4.4	<0.10	NA
	03/01/00	0.61	25	215	66	4756	4,700	3.9	<0.10	990
	06/01/00	0.44	30	115	64	1958	4,100	3	<0.50	930
	09/01/00	0.52	40	75	NA	758	3,000	1.8	<0.10	NA
	12/01/00	1.00	60	25	NA	NA	NA	NA	NA	NA
	03/01/01	0.50	40	57	NA	NA	NA	NA	NA	NA
	06/01/01	0.23	40	170	NA	NA	NA	NA	NA	NA
	09/04/01	0.24	50	65	NA	NA	NA	NA	NA	NA
	12/03/01	0.23	50	124	NA	NA	NA	NA	NA	NA

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO[1] (ppm)[2]	DCO_2[3] (ppm)	ORP[4] (mV)[5]	Alkalinity (mg/L $CaCO_3$) [6]	Dissolved Methane (ug/L)[7]	Dissolved Iron (ug/L)	Sulfate (mg/L)[8]	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-104 (cont'd)	03/01/02	0.35	35	167	NA	NA	NA	NA	NA	NA
	06/03/02	0.51	30	141	NA	NA	NA	NA	NA	NA
	09/03/02	0.26	40	143	NA	NA	NA	NA	NA	NA
	12/02/02	0.48	40	187	NA	NA	NA	NA	NA	NA
	03/03/03	0.75	30	241	NA	NA	NA	NA	NA	NA
	06/02/03	1.25	55	265	NA	NA	NA	NA	NA	NA
	09/02/03	1.13	65	238	NA	NA	NA	NA	NA	NA
	12/01/03	0.56	40	278	NA	NA	NA	NA	NA	NA
	03/01/04	0.79	30	272	NA	NA	NA	NA	NA	NA
	06/01/04	0.62	110	51	NA	NA	NA	NA	NA	NA
	09/02/04	0.58	20	34	NA	NA	NA	NA	NA	NA
	12/01/04	1.60	30	75	NA	NA	NA	NA	NA	NA
	03/01/05	8.12	20	90	NA	NA	NA	NA	NA	NA
	06/01/05	0.74	35	37	NA	NA	NA	NA	NA	NA
	09/01/05	0.76	20	-68	NA	NA	NA	NA	NA	NA
MW-105	12/01/99	0.77	70	5	NA	122	2,100	4.3	<0.10	NA
	03/01/00	1.76	20	320	59	11.2	420	6.6	0.88	470
	06/01/00	1.45	20	265	36	18.9	440	5.9	0.59	160
	09/01/00	0.48	NA	30	NA	43.1	530	3.7	0.25	NA
	12/01/00	0.98	70	-15	NA	NA	NA	NA	NA	NA
	03/01/01	0.77	20	99	NA	NA	NA	NA	NA	NA
	06/01/01	0.94	30	140	NA	NA	NA	NA	NA	NA
	09/04/01	0.21	70	103	NA	NA	NA	NA	NA	NA
	12/03/01	0.42	50	124	NA	NA	NA	NA	NA	NA
	03/01/02	0.95	20	179	NA	NA	NA	NA	NA	NA
	06/03/02	1.19	25	145	NA	NA	NA	NA	NA	NA
	09/03/02	0.28	100	165	NA	NA	NA	NA	NA	NA

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO[1] (ppm)[2]	DCO_2[3] (ppm)	ORP[4] (mV)[5]	Alkalinity (mg/L $CaCO_3$) [6]	Dissolved Methane (ug/L)[7]	Dissolved Iron (ug/L)	Sulfate (mg/L)[8]	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-105 (cont'd)	12/02/02	0.58	50	202	NA	NA	NA	NA	NA	NA
	03/03/03	1.40	20	252	NA	NA	NA	NA	NA	NA
	06/02/03	1.64	45	254	NA	NA	NA	NA	NA	NA
	09/02/03	1.10	40	232	NA	NA	NA	NA	NA	NA
	12/01/03	3.80	35	273	NA	NA	NA	NA	NA	NA
	03/01/04	0.72	15	278	NA	NA	NA	NA	NA	NA
	06/01/04	1.23	20	183	NA	NA	NA	NA	NA	NA
	09/02/04	0.64	50	75	NA	NA	NA	NA	NA	NA
	12/01/04	1.78	45	45	NA	NA	NA	NA	NA	NA
	03/01/05	0.88	35	165	NA	NA	NA	NA	NA	NA
	06/01/05	0.99	15	162	NA	NA	NA	NA	NA	NA
	09/01/05	0.79	30	-19	NA	NA	NA	NA	NA	NA
MW-106	12/01/99	0.72	40	2	NA	<7.89	<100	7.9	0.61	NA
	03/01/00	0.77	30	105	48	<7.89	1,100	7.5	0.59	960
	06/01/00	0.55	30	215	36	<7.89	<100	7.3	0.58	270
	09/01/00	0.65	NA	160	NA	<7.89	<15	6.2	0.37	NA
	12/01/00	1.45	60	140	NA	NA	NA	NA	NA	NA
	03/01/01	1.28	30	125	NA	NA	NA	NA	NA	NA
	06/01/01	0.96	30	49	NA	NA	NA	NA	NA	NA
	09/04/01	0.30	25	40	NA	NA	NA	NA	NA	NA
	12/03/01	0.47	35	67	NA	NA	NA	NA	NA	NA
	03/01/02	0.55	30	152	NA	NA	NA	NA	NA	NA
	06/03/02	0.84	30	79	NA	NA	NA	NA	NA	NA
	09/03/02	0.47	35	94	NA	NA	NA	NA	NA	NA
	12/02/02	2.37	35	141	NA	NA	NA	NA	NA	NA
	03/03/03	0.80	30	218	NA	NA	NA	NA	NA	NA
	06/02/03	1.76	35	219	NA	NA	NA	NA	NA	NA

Table B-3
Historic Natural Attenuation Parameters
Blue Lake Belting & Leather Works, Blue Lake, California

Well Location	Sampling Date	DO[1] (ppm)[2]	DCO_2[3] (ppm)	ORP[4] (mV)[5]	Alkalinity (mg/L $CaCO_3$) [6]	Dissolved Methane (ug/L)[7]	Dissolved Iron (ug/L)	Sulfate (mg/L)[8]	Nitrate (mg/L)	Dissolved Manganese (ug/L)
MW-106 (cont'd)	09/02/03	1.91	30	145	NA	NA	NA	NA	NA	NA
	12/01/03	0.90	30	232	NA	NA	NA	NA	NA	NA
	03/01/04	1.46	15	254	NA	NA	NA	NA	NA	NA
	06/01/04	1.42	60	138	NA	NA	NA	NA	NA	NA
	09/02/04	1.25	25	113	NA	NA	NA	NA	NA	NA
	12/01/04	2.23	45	176	NA	NA	NA	NA	NA	NA
	03/01/05	1.43	30	68	NA	NA	NA	NA	NA	NA
	06/01/05	1.34	15	120	NA	NA	NA	NA	NA	NA
	09/01/05	0.92	20	167	NA	NA	NA	NA	NA	NA
MW-3	03/01/05	0.74	45	27	NA	NA	NA	NA	NA	NA
	06/01/05	0.73	30	4	NA	NA	NA	NA	NA	NA
	09/01/05	0.75	40	-48	NA	NA	NA	NA	NA	NA

1. DO: Dissolved Oxygen, field measured using portable instrumentation
2. ppm: Measurement concentration, in parts per million
3. DCO_2: Dissolved Carbon Dioxide, field measured using a field test kit
4. ORP: Oxidation-Reduction Potential measured using portable instrumentation
5. mV: millivolts
6. mg/L $CaCO_3$: milligrams per Liter of Calcium Carbonate
7. ug/L: micrograms per Liter
8. mg/L: milligrams per Liter
9. NA: Not Measured or Not Available
10. <: Denotes a value that is "less than" the method detection limit

Table B-4
Ozone System Monitoring
Blue Lake Belting & Leather Works, Blue Lake, California

Date	Total System Run Time (hours:minutes)	Ozone Flow (scfh)[1]	Ozone Pressure (psi)[2]	Electric Meter (kWhr)[3]	SW-1				SW-2			
					Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)
12/21/04	2:52	8	9	0	1.3	8	0:39	0:00	1.0	16	0:19	0:00
12/31/04	221:33	5	13	397	1.0	20	0:39	0:00	0.8	25	0:19	0:00
01/07/05	389:27	5	12.5	520	NM	22	0:40	0:00	NM	30	0:20	0:00
01/17/05	630:58	5	12.5	830	0.9	16	0:41	0:00	0.9	15	0:21	0:00
01/21/05	725:30	5	13	NM	0.9	10	0:43	0:00	0.9	11	0:23	0:00
01/28/05	893:11	5	13.5	1286	1.1	7	0:44	0:00	0.8	17	0:24	0:00
02/03/05	1040:48	9.5	9.5	1381	1.1	7	0:49	0:05	0.8	17	0:26	0:05
03/01/05	1655:53	9	8.5	2185	1.2	6.5	41:54	0:05	1.1	12	41:28	0:05
04/15/05	2730:03	5	11	3536	1.2	5	113:27	0:05	1.2	7	113:30	0:05
05/12/05	3365:53	5.5	11	4323	1.2	5	155:49	0:05	1.1	7	155:29	0:05
06/03/05	3886:14	9	8.5	4968	1.2	5	190:31	0:05	1.1	7.5	190:15	0:05
07/08/05	4727:06	4	12	5968	1.2	4	246:37	0:05	1.0	8	246:11	0:05
07/29/05	5235:52	7	8	6511	1.2	6	280:29	0:05	1.2	6	280:04	0:05
08/18/05	5711:35	9	7	6982	1.2	5	312:15	0:05	1.1	7	311:50	0:05
09/13/05	6184:32	8	9	NM	1.2	6	343:51	0:05	1.2	7	343:26	0:05

Table B-4
Ozone System Monitoring
Blue Lake Belting & Leather Works, Blue Lake, California

Date	SW-3				SW-4				SW-5			
	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)
12/21/04	1.1	14	0:15	0:05	1.1	12	0:16	0:05	1.1	14	0:14	0:05
12/31/04	1.3	20	44:15	0:05	1.1	20	44:06	0:05	1.2	20	43:56	0:05
01/07/05	NM	19	77:55	0:05	NM	19	77:37	0:05	NM	19	77:27	0:05
01/17/05	1.1	7	126:10	0:05	1.1	8	125:59	0:05	1.1	8	125:48	0:05
01/21/05	1.1	5	145:06	0:05	1.1	7	144:51	0:05	1.1	9	144:39	0:05
01/28/05	1.1	8	178:40	0:05	1.1	8	178:22	0:05	1.1	9	178:10	0:05
02/03/05	1.1	7	208:32	0:10	1.1	7	207:47	0:10	1.1	9	207:31	0:10
03/01/05	1.2	9	290:31	0:10	1.1	9	289:38	0:10	1.1	10	289:34	0:10
04/15/05	1.2	8	433:41	0:10	1.1	7	432:58	0:10	1.2	8	432:44	0:10
05/12/05	1.1	8	518:32	0:10	1.1	7	517:49	0:10	1.1	7	517:35	0:10
06/01/05	1.05	8	587:56	0:10	1.1	7	587:13	0:10	1.2	4.5	586:59	0:10
07/08/05	1	8	700:08	0:10	1.0	7	699:25	0:10	1.2	4	699:11	0:10
07/29/05	1.1	8	767:52	0:10	1.1	8	767:09	0:10	1.2	7	766:55	0:10
08/18/05	1	10	831:24	0:10	1.1	9	830:41	0:10	1.1	8	830:27	0:10
09/13/05	1	10	894:36	0:10	1.1	8.25	893:53	0:10	1.1	8	893:39	0:10

Table B-4
Ozone System Monitoring
Blue Lake Belting & Leather Works, Blue Lake, California

Date	SW-6				SW-7				SW-8			
	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)
12/21/04	1.0	16	0:11	0:05	0.9	18	0:09	0:00	1.1	15	0:16	0:00
12/31/04	1.2	20	43:42	0:05	0.9	22	0:09	0:00	0.8	23	0:16	0:00
1/7/05	NM	19	77:18	0:05	NM	21	0:10	0:00	NM	21	0:17	0:00
1/17/05	1.1	8	125:35	0:05	0.9	15	0:11	0:00	0.8	16	0:18	0:00
1/21/05	1.1	8	144:30	0:05	0.9	16	0:12	0:00	0.9	16	0:19	0:00
1/28/05	1.1	9	178:01	0:05	0.9	15	0:13	0:00	1.1	10	0:20	0:00
2/3/05	1.1	9	207:22	0:10	0.9	17	0:15	0:05	1.0	14	0:22	0:05
3/1/05	1.1	11	289:22	0:10	1.0	14	41:16	0:05	1.0	13	41:23	0:05
4/15/05	1.0	10	432:32	0:10	1.1	8	112:51	0:05	1.3	2.25	112:58	0:05
5/12/05	0.9	10	517:23	0:10	1.1	8	155:17	0:05	1.3	3	155:19	0:05
6/1/05	1.0	10	586:47	0:10	1.1	7.5	189:53	0:05	1.2	3	190:00	0:05
07/08/05	1.0	9	698:59	0:10	1.0	8	245:51	0:05	1.3	3	245:56	0:05
07/29/05	1.1	9	766:43	0:10	1.0	11	279:38	0:05	1.3	4	279:43	0:05
08/18/05	0.9	11	830:15	0:10	0.9	11	311:24	0:05	1.2	5	311:28	0:05
09/13/05	1.0	9.75	893:27	0:10	1.1	10	342:45	0:05	1.2	6	342:48	0:05

Table B-4
Ozone System Monitoring
Blue Lake Belting & leather works, Blue Lake, California

Date	SW-9				SW-10			
	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)	Flow (scfh)	Pressure (psi)	Total Run Time (hours:minutes)	Programmed Run Time (hours:minutes)
12/21/04	1.3	7	0:12	0:00	1.1	15	0:21	0:05
12/31/04	1.2	20	0:12	0:00	1.2	20	43:59	0:05
01/07/05	NM	15	0:13	0:00	NM	15	77:30	0:05
01/17/05	1.1	6	0:14	0:00	1.1	6	125:41	0:05
01/21/05	1.1	6	0:15	0:00	1.1	6	144:32	0:05
01/28/05	1.2	7	0:16	0:00	1.1	6	178:01	0:05
02/03/05	1.0	6	0:18	0:05	1.1	8	207:26	0:10
03/01/05	1.2	8	41:18	0:05	1.1	12	289:29	0:10
04/15/05	1.2	6	112:53	0:05	1.2	7	432:29	0:10
05/12/05	1.1	6	155:19	0:05	1.1	8	517:21	0:10
06/01/05	1.1	6	189:55	0:05	1.0	7.5	586:45	0:10
07/08/05	1.2	4	245:51	0:05	1.0	8	698:57	0:10
07/29/05	1.2	6	279:38	0:05	1.1	8	766:41	0:10
08/18/05	1.1	7	311:26	0:05	1.1	9	830:13	0:10
09/13/05	1.1	8	342:42	0:05	1.1	8	893:25	0:10

1. scfh: standard cubic feet per hour 2. psi: pounds per square inch 3. kWhr: kilowatt hour

Appendix C

Laboratory Analytical Reports

NORTH COAST LABORATORIES LTD.

RECEIVED
LACO ASSOCIATES
SEP 16 2005
BY: JG

September 15, 2005

Pvt. cust. paying on pickup

,

Attn: Pat Folkins

RE: 3888.01, BLUE LAKE MARKET

DRG
FDN

Order No.: 0509025
Invoice No.: 52770
PO No.: TASK
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	3888-MW1-W
02A	3888-MW2-W
03A	3888-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s) | QA Unit | Jesse G. Chaney, Jr. Laboratory Director

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Printed on Recycled Paper

North Coast Laboratories, Ltd. **Date:** *15-Sep-05*

CLIENT: Pvt. cust. paying on pickup
Project: 3888.01, BLUE LAKE MARKET
Lab Order: 0509025

CASE NARRATIVE

TPH as Gasoline:
Sample 3888-MW2-W appears to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported result represents the amount of material in the gasoline range.

The gasoline value for sample 3888-MW1-W includes the reported gasoline components in addition to other peaks in the gasoline range.

BTEX:
Some reporting limits were raised for sample 3888-MW1-W due to matrix interference.

Sample 3888-MW1-W was diluted and the reporting limits raised additionally due to matrix interference.

Sample 3888-MW2-W was reported as ND with a dilution due to matrix interference.

NORTH COAST LABORATORIES
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Printed on Recycled Paper

Date: 15-Sep-05
WorkOrder: 0509025

ANALYTICAL REPORT

Client Sample ID: 3888-MW1-W **Received:** 9/1/05 **Collected:** 9/1/05 0:00
Lab ID: 0509025-01A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	60	µg/L	1.0		9/13/05
Benzene	24	5.0	µg/L	10		9/13/05
Toluene	ND	25	µg/L	10		9/13/05
Ethylbenzene	ND	10	µg/L	1.0		9/13/05
m,p-Xylene	ND	10	µg/L	1.0		9/13/05
o-Xylene	ND	10	µg/L	1.0		9/13/05
Surrogate: Cis-1,2-Dichloroethylene	104	85-115	% Rec	10		9/13/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,700	50	µg/L	1.0		9/13/05

Client Sample ID: 3888-MW2-W **Received:** 9/1/05 **Collected:** 9/1/05 0:00
Lab ID: 0509025-02A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	30	µg/L	10		9/13/05
Benzene	19	5.0	µg/L	10		9/13/05
Toluene	57	5.0	µg/L	10		9/13/05
Ethylbenzene	130	50	µg/L	100		9/13/05
m,p-Xylene	380	50	µg/L	100		9/13/05
o-Xylene	30	5.0	µg/L	10		9/13/05
Surrogate: Cis-1,2-Dichloroethylene	98.9	85-115	% Rec	10		9/13/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	3,200	500	µg/L	10		9/13/05

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Printed on Recycled Paper

Date: 15-Sep-05
WorkOrder: 0509025

ANALYTICAL REPORT

Client Sample ID: 3888-QCTB-W **Received:** 9/1/05 **Collected:** 9/1/05 0:00
Lab ID: 0509025-03A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		9/12/05
Benzene	ND	0.50	µg/L	1.0		9/12/05
Toluene	ND	0.50	µg/L	1.0		9/12/05
Ethylbenzene	ND	0.50	µg/L	1.0		9/12/05
m,p-Xylene	ND	0.50	µg/L	1.0		9/12/05
o-Xylene	ND	0.50	µg/L	1.0		9/12/05
Surrogate: Cis-1,2-Dichloroethylene	91.3	85-115	% Rec	1.0		9/12/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		9/12/05

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North Coast Laboratories, Ltd.

Date: 15-Sep-05

CLIENT: Pvt. cust. paying on pickup
Work Order: 0509025
Project: 3888.01, BLUE LAKE MARKET

QC SUMMARY REPORT

Method Blank

Sample ID **MB-9/12/05** Batch ID: **R36893** Test Code: **BTXEW** Units: **µg/L** Analysis Date **9/12/05 11:12:55 PM** Prep Date
Client ID: Run ID: **ORGC8_050912B** SeqNo: **530934**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	3.0									
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Cis-1,2-Dichloroethylene	0.928	0.10	1.00	0	92.8%	85	115	0			

Sample ID **MB-9/12/05** Batch ID: **R36889** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **9/12/05 11:12:55 PM** Prep Date
Client ID: Run ID: **ORGC8_050912A** SeqNo: **530893**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	ND	50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 15-Sep-05

CLIENT: Pvt. cust. paying on pickup
Work Order: 0509025
Project: 3888.01, BLUE LAKE MARKET

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-05578** Batch ID: **R36893** Test Code: **BTXEW** Units: **µg/L** Analysis Date **9/12/05 7:07:31 PM** Prep Date
Client ID: Run ID: **ORGC8_050912B** SeqNo: **530931**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	40.32	3.0	40.0	0	101%	85	115	0			
Benzene	5.181	0.50	5.00	0	104%	85	115	0			
Toluene	5.270	0.50	5.00	0	105%	85	115	0			
Ethylbenzene	5.221	0.50	5.00	0	104%	85	115	0			
m,p-Xylene	10.28	0.50	10.0	0	103%	85	115	0			
o-Xylene	5.082	0.50	5.00	0	102%	85	115	0			
Cis-1,2-Dichloroethylene	1.11	0.10	1.00	0	111%	85	115	0			

Sample ID **LCSD-05578** Batch ID: **R36893** Test Code: **BTXEW** Units: **µg/L** Analysis Date **9/12/05 7:42:44 PM** Prep Date
Client ID: Run ID: **ORGC8_050912B** SeqNo: **530932**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	40.43	3.0	40.0	0	101%	85	115	40.3	0.277%	15	
Benzene	5.158	0.50	5.00	0	103%	85	115	5.18	0.438%	15	
Toluene	5.168	0.50	5.00	0	103%	85	115	5.27	1.95%	15	
Ethylbenzene	5.208	0.50	5.00	0	104%	85	115	5.22	0.239%	15	
m,p-Xylene	10.24	0.50	10.0	0	102%	85	115	10.3	0.351%	15	
o-Xylene	5.048	0.50	5.00	0	101%	85	115	5.08	0.681%	15	
Cis-1,2-Dichloroethylene	1.09	0.10	1.00	0	109%	85	115	1.11	1.83%	15	

Sample ID **LCS-05579** Batch ID: **R36889** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **9/12/05 8:52:57 PM** Prep Date
Client ID: Run ID: **ORGC8_050912A** SeqNo: **530890**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	539.9	50	500	0	108%	85	115	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Pvt. cust. paying on pickup
Work Order: 0509025
Project: 3888.01, BLUE LAKE MARKET

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-05579** Batch ID: **R36889** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **9/12/05 9:27:57 PM** Prep Date

Client ID: Run ID: **ORGC8_050912A** SeqNo: **530891**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	545.3	50	500	0	109%	85	115	540	0.991%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NORTH COAST LABORATORIES LTD.
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707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0509025

Attention: PAT FOLKINS
Results & Invoice to:
Address: 2020 ARDAGH COURT
EUREKA, CA 95503
Phone:
Copies of Report to: Tim Nelson-LACO
Sampler (Sign & Print): RLD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 3888.01
Project Name: BLUE LAKE MARKET
Purchase Order Number: task

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	CONTAINER	PRESERVATIVE	ANALYSIS: TPHg/BTEX
	3888-MW1-W	9-1-05	AM	GW	9	b	3
	3888-MW2-W	↓	↓	↓			3
	3888-QCTB-W	↓	↓	↓			1

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER

Cooler temp=5.1°C

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	9-1-05 2:18pm	Jennifer Martin	9-1-05 1420

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.

REC'D SEP 19 2005

September 15, 2005

SHN Consulting Engineers and Geologists
812 West Wabash Avenue
Eureka, CA 95501

Order No.: 0509032
Invoice No.: 52771
PO No.:

ELAP No. 1247-Expires July 2006

Attn: Mike Foget

RE: 097309, Blue Lake Belting and Leather

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	MW-106
02A	MW-102
03A	MW-105
04A	MW-3
05A	MW-103
06A	MW-104

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s) | QA Unit | Lab Manager

Jesse G. Chaney, Jr.
Laboratory Director

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Printed on Recycled Paper

North Coast Laboratories, Ltd. **Date:** *15-Sep-05*

CLIENT: SHN Consulting Engineers and Geologists
Project: 097309, Blue Lake Belting and Leather
Lab Order: 0509032

CASE NARRATIVE

TPH as Gasoline:
Samples MW-3, MW-103 and MW-104 appear to be similar to gasoline but certain peak ratios are not that of a fresh gasoline standard. The reported results represent the amount of material in the gasoline range.

The gasoline value for sample MW-105 includes the reported gasoline components in addition to other peaks in the gasoline range.

Sample MW-105 was diluted and the reporting limits raised additionally due to matrix interference.

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Date: 15-Sep-05
WorkOrder: 0509032

ANALYTICAL REPORT

Client Sample ID: MW-106 **Received:** 9/1/05 **Collected:** 9/1/05 11:05
Lab ID: 0509032-01A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	ND	0.50	µg/L	1.0		9/13/05
Toluene	ND	0.50	µg/L	1.0		9/13/05
Ethylbenzene	ND	0.50	µg/L	1.0		9/13/05
m,p-Xylene	ND	0.50	µg/L	1.0		9/13/05
o-Xylene	ND	0.50	µg/L	1.0		9/13/05
Surrogate: Cis-1,2-Dichloroethylene	95.5	85-115	% Rec	1.0		9/13/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		9/13/05

Client Sample ID: MW-102 **Received:** 9/1/05 **Collected:** 9/1/05 11:30
Lab ID: 0509032-02A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	ND	0.50	µg/L	1.0		9/13/05
Toluene	ND	0.50	µg/L	1.0		9/13/05
Ethylbenzene	ND	0.50	µg/L	1.0		9/13/05
m,p-Xylene	ND	0.50	µg/L	1.0		9/13/05
o-Xylene	ND	0.50	µg/L	1.0		9/13/05
Surrogate: Cis-1,2-Dichloroethylene	93.5	85-115	% Rec	1.0		9/13/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	50	µg/L	1.0		9/13/05

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Printed on Recycled Paper

Date: 15-Sep-05
WorkOrder: 0509032

ANALYTICAL REPORT

Client Sample ID: MW-105 **Received:** 9/1/05 **Collected:** 9/1/05 12:00
Lab ID: 0509032-03A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	8.2	5.0	µg/L	10		9/13/05
Toluene	ND	15	µg/L	10		9/13/05
Ethylbenzene	3.6	0.50	µg/L	1.0		9/13/05
m,p-Xylene	0.95	0.50	µg/L	1.0		9/13/05
o-Xylene	1.2	0.50	µg/L	1.0		9/13/05
Surrogate: Cis-1,2-Dichloroethylene	95.2	85-115	% Rec	10		9/13/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	470	50	µg/L	1.0		9/13/05

Client Sample ID: MW-3 **Received:** 9/1/05 **Collected:** 9/1/05 12:30
Lab ID: 0509032-04A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	68	5.0	µg/L	10		9/13/05
Toluene	160	50	µg/L	100		9/13/05
Ethylbenzene	110	50	µg/L	100		9/13/05
m,p-Xylene	180	5.0	µg/L	10		9/13/05
o-Xylene	28	5.0	µg/L	10		9/13/05
Surrogate: Cis-1,2-Dichloroethylene	95.3	85-115	% Rec	100		9/13/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	6,700	5,000	µg/L	100		9/13/05

NORTH COAST LABORATORIES
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Printed on Recycled Paper

Date: 15-Sep-05
WorkOrder: 0509032

ANALYTICAL REPORT

Client Sample ID: MW-103 **Received:** 9/1/05 **Collected:** 9/1/05 13:15
Lab ID: 0509032-05A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	130	50	µg/L	100		9/13/05
Toluene	110	50	µg/L	100		9/13/05
Ethylbenzene	230	50	µg/L	100		9/13/05
m,p-Xylene	410	50	µg/L	100		9/13/05
o-Xylene	36	5.0	µg/L	10		9/13/05
Surrogate: Cis-1,2-Dichloroethylene	98.7	85-115	% Rec	100		9/13/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	7,400	500	µg/L	10		9/13/05

Client Sample ID: MW-104 **Received:** 9/1/05 **Collected:** 9/1/05 13:25
Lab ID: 0509032-06A

Test Name: BTEX **Reference:** EPA 5030/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Benzene	63	5.0	µg/L	10		9/13/05
Toluene	88	5.0	µg/L	10		9/13/05
Ethylbenzene	270	50	µg/L	100		9/13/05
m,p-Xylene	480	50	µg/L	100		9/13/05
o-Xylene	39	5.0	µg/L	10		9/13/05
Surrogate: Cis-1,2-Dichloroethylene	99.3	85-115	% Rec	100		9/13/05

Test Name: TPH as Gasoline **Reference:** EPA 5030/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	8,300	5,000	µg/L	100		9/13/05

NORTH COAST LABORATORIES
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North Coast Laboratories, Ltd.

Date: 15-Sep-05

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0509032
Project: 097309, Blue Lake Belting and Leather

QC SUMMARY REPORT

Method Blank

Sample ID **MB-9/12/05** Batch ID: **R36893** Test Code: **BTXEW** Units: **µg/L** Analysis Date **9/12/05 11:12:55 PM** Prep Date

Client ID: Run ID: **ORGC8_050912B** SeqNo: **530934**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Cis-1,2-Dichloroethylene	0.928	0.10	1.00	0	92.8%	85	115	0			

Sample ID **MB-9/12/05** Batch ID: **R36889** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **9/12/05 11:12:55 PM** Prep Date

Client ID: Run ID: **ORGC8_050912A** SeqNo: **530893**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	ND	50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 15-Sep-05

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0509032
Project: 097309, Blue Lake Belting and Leather

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-05578** Batch ID: **R36893** Test Code: **BTXEW** Units: **µg/L** Analysis Date **9/12/05 7:07:31 PM** Prep Date
Client ID: Run ID: **ORGC8_050912B** SeqNo: **530931**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.181	0.50	5.00	0	104%	85	115	0			
Toluene	5.270	0.50	5.00	0	105%	85	115	0			
Ethylbenzene	5.221	0.50	5.00	0	104%	85	115	0			
m,p-Xylene	10.28	0.50	10.0	0	103%	85	115	0			
o-Xylene	5.082	0.50	5.00	0	102%	85	115	0			
Cis-1,2-Dichloroethylene	1.11	0.10	1.00	0	111%	85	115	0			

Sample ID **LCSD-05578** Batch ID: **R36893** Test Code: **BTXEW** Units: **µg/L** Analysis Date **9/12/05 7:42:44 PM** Prep Date
Client ID: Run ID: **ORGC8_050912B** SeqNo: **530932**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.158	0.50	5.00	0	103%	85	115	5.18	0.438%	15	
Toluene	5.168	0.50	5.00	0	103%	85	115	5.27	1.95%	15	
Ethylbenzene	5.208	0.50	5.00	0	104%	85	115	5.22	0.239%	15	
m,p-Xylene	10.24	0.50	10.0	0	102%	85	115	10.3	0.351%	15	
o-Xylene	5.048	0.50	5.00	0	101%	85	115	5.08	0.681%	15	
Cis-1,2-Dichloroethylene	1.09	0.10	1.00	0	109%	85	115	1.11	1.83%	15	

Sample ID **LCS-05579** Batch ID: **R36889** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **9/12/05 8:52:57 PM** Prep Date
Client ID: Run ID: **ORGC8_050912A** SeqNo: **530890**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	539.9	50	500	0	108%	85	115	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: SHN Consulting Engineers and Geologists
Work Order: 0509032
Project: 097309, Blue Lake Belting and Leather

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-05579** Batch ID: **R36889** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **9/12/05 9:27:57 PM** Prep Date

Client ID: Run ID: **ORGC8_050912A** SeqNo: **530891**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	545.3	50	500	0	109%	85	115	540	0.991%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

0509032

LABORATORY NUMBER:

Attention: Mike Foget
Results & Invoice to: SHN
Address: 812 West Wabash Avenue
Eureka, CA 95501
Phone: 441-8855
Copies of Report to:
Sampler (Sign & Print): David R. Paine David R. Paine

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☒ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☐ Verbal ☐ By: __/__/__
Final Report: FAX ☐ Verbal ☐ By: __/__/__

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION
Project Number: 097309
Project Name: Blue Lake Belting and Leather
Purchase Order Number:

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	PRESERVATIVE	CONTAINER	ANALYSIS
	MW 106	9/1/05	1105	GW	b		TPH-G / BTEX
	MW 102		1130				X
	MW 105		1200				X
	MW 3		1230				X
	MW 103		1315				X
	MW 104	↓	1325	↓			X

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
EDF
Global ID # T0602300012
No MTBE on report
Cooler temp = 11.2°

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
David R. Paine David R. Paine	1355 9/1/05	R. Thompson	9/1/05 1355

SAMPLE DISPOSAL
☒ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT