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LETTER OF TRANSMITTAL

TO: HCDEH
100 H St., Suite 100
Eureka, CA 95501
ATTN: Mark Verhey, C.E.G.

DATE: July 18, 2006
JOB NO.: 3888.02
PROJECT: Blue Lake Market

TRANSMITTED BY: ☒ Mail ☐ Delivered In Person ☐ Fax

No. Copies		Description
1	1.	Subsurface Investigation Status Report and Response to HCDEH Correspondence
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REMARKS:

THIS MATERIAL SENT FOR: ☒ As Requested ☒ Information ☐ Approval ☐

cc: Pat Folkins

By: Todd B. Becker

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SUBSURFACE INVESTIGATION STATUS REPORT AND RESPONSE TO HCDEH CORRESPONDENCE

Blue Lake Market
410 Railroad Avenue
Blue Lake, California

LOP No. 12229

Prepared for:
Mr. Patrick Folkins
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July 18, 2006
LACO Project No. 3888.02

SUBSURFACE INVESTIGATION STATUS REPORT AND RESPONSE TO HCDEH CORRESPONDENCE

Report of Findings: Boring and Monitoring Well Installation
Response to HCDEH Comments dated December 22, 2005
Blue Lake Market, 410 Railroad Avenue, Blue Lake, California
LOP No. 12229, USTCF Claim No. 11658, LACO Project No. 3888.02

EXECUTIVE SUMMARY

Fieldwork to delineate impacts of gasoline-range material to soil and groundwater related to the former underground storage tank (UST) at the Blue Lake Market, located at the above address, was conducted in March 2006 by LACO ASSOCIATES (LACO). The work activities were performed in general accordance with LACO's *Proposed Boring and Monitoring Well Installation* letter dated January 17, 2006. The current owner and responsible party for cleanup is Mr. Patrick Folkins. During the current investigation, LACO installed two borings and one monitoring well for the collection of soil and groundwater samples. A location map is presented as Figure 1 and a site map is presented as Figure 2.

Borings B15 and B16 were installed to delineate the north to northeastern extents of gasoline-range material impacts to soil near the former pump islands at the Blue Lake Market site. Monitoring well MW6 was installed to delineate the downgradient extents of the dissolved-phase gasoline-range material impacts. Analytical results from soil in the monitoring well MW6 boring identified the farthest downgradient detection of gasoline-range material impacts to soil; however, initial groundwater sampling in this well was reported below standard laboratory detection limits for all analytes tested.

INTRODUCTION

LACO installed two borings (B15 and B16) and one monitoring well (MW6) at the subject property on March 28, 2006, in an effort to delineate the limits of sorbed and dissolved-phase gasoline-range material impacts. This report contains the details of the boring installation, sampling and drilling methodologies, summary of soil and groundwater laboratory results, conclusions, and recommendations for future work at the site.

SITE CHRONOLOGY

- **1990:** One 550-gallon UST was removed from the site.
- **December 1994:** Three monitoring wells (MW1 through MW3) and five temporary

borings (B1 through B5) were installed.

- **1994 to present:** Groundwater monitoring was conducted.
- **July 2001:** Five temporary soil borings (B6 through B10) were installed.
- **September 2005:** Four temporary borings (B11 through B14) and two monitoring wells (MW4 and MW5) were installed.
- **March 2006:** Two temporary borings (B15 and B16) and one monitoring well (MW6) were installed.

FIELD METHODS

Temporary Boring Installation

Borings B15 and B16 were installed using direct push technology. Continuous cores were collected using macrocore rods with an outside diameter (OD) of 2.125 inches, fitted with plastic sample liners to facilitate the collection of soil samples. Soil samples were collected from the macrocore plastic liners and placed directly into brass tubes, sealed with Teflon, and capped. Soil lithology was logged in general accordance with ASTM-D2488 noting changes in texture, the presence of gasoline-range material, and the presence and depth of groundwater. Grab groundwater samples were collected using a screen point sampler with disposable PVC tubing equipped with a check valve, and were decanted directly into laboratory-supplied containers. The screen point sampler was exposed to the aquifer for collection of grab groundwater samples from approximately the 12 to 16 feet below ground surface (bgs) sampling interval. Boring location, installation method, total depth of exploration, sample depths, sample analytical suite, and method of boring closure are summarized in Table A, below. The locations of current and historical borings are presented in Figure 2. A key to abbreviations is included as Attachment 1. Boring logs from the current investigation are included in Attachment 2.

Table A: Boring Installation Details

Boring ID	Location	Installation Method	Total Depth (feet bgs)	Soil Sample Depths (feet bgs)	Groundwater Sample	Sample Analytical Suite - soil and groundwater	Closure Method
B15	NW of Market	Direct Push; 2.125 Inch Macrocore	16	4.25, 8.0, 10.5, 13.0, 16.0	Grab	TPHg, BTEX, MTBE	Bentonite to 0.5 feet bgs, asphalt to grade
B16			16	4.0, 8.0, 12.0, 16.0	Grab		
MW6	40 Feet South of Monitoring Well MW4	Direct Push; 3.25 Inch Dual Tube	15	8, 15	---		Monitoring Well Constructed

Soil cuttings and rinse water were stored on-site in steel, 55-gallon, DOT-approved drums pending characterization and disposal. All drilling and sampling equipment was decontaminated before and after each use with Alconox soap and clean water rinse. Borings B15 and B16 were closed using hydrated bentonite and cold-patch asphalt to match existing grade.

Monitoring Well Installation

Monitoring well MW6 was installed using a direct push drill rig fitted with dual tube 3.25-inch OD rods. Prior to the installation of monitoring well MW6, continuous cores were collected to 15 feet bgs using dual tube rods with an OD of 3.25 inches, fitted with plastic sample liners to collect soil samples and characterize lithology to identify the depth range for the screen interval. Monitoring well location, total depth, screened interval, and annular materials used in the construction of monitoring well MW6 are presented in Table B, below. The monitoring well was completed with a locking well cap and flush-mount access box with a locking, watertight lid, set in an apron of traffic-rated concrete extending at least 6 inches from the access box. The log for monitoring well MW6 is included in Attachment 2.

Table B: Monitoring Well Construction Details

Well ID	Well Location	Total Well Depth (feet)	0.010-Slot Well Screen Interval (feet)	#2/16 Sand Interval (feet)	Cement Slurry Seal Interval (feet)
MW6	40 Feet South of Monitoring Well MW4	15	10 - 15	9 - 15	1.5 - 9

Rinse water was stored on-site in 55-gallon, DOT-approved, steel drums pending characterization and disposal. All drilling and sampling equipment was decontaminated before and after each use with Alconox soap and clean water rinse.

Monitoring Well Development

On April 3, 2006, a LACO field technician developed monitoring well MW6. The monitoring well was initially surged with a solid block for five minutes, then with a check ball for eight to ten minutes. Water was purged from the monitoring well using a down-hole pump until the discharge was measured to be less than 10 nephelometric turbidity units (NTU) using a turbidity meter. All down-hole equipment was decontaminated prior to and after its use with Alconox soap and clean water rinse. Water extracted during the development of the monitoring well was

stored on-site in steel, 55-gallon, DOT-approved, steel drums pending characterization and disposal. Field notes generated during well development are included as Attachment 3.

Initial Sampling

Monitoring well MW6 was initially sampled on April 4, 2006. Field forms from the April 4, 2006, sampling event are included as Attachment 3. Results from the April 4, 2006, sampling event were non-detect for contaminants of concern (COCs) and were also reported in LACO's Groundwater Monitoring Report, First Quarter 2006 (LACO May 2006).

RESULTS OF INVESTIGATION

Soil and Groundwater Analytical Results

Historical laboratory analytical results for soil and groundwater samples collected from site borings and monitoring wells are summarized in Tables 1 and 2, respectively, and a copy of the analytical report is included as Attachment 4. Historical laboratory results from monitoring wells, which includes the initial groundwater results for monitoring well MW6, are presented in Table 3. Laboratory analytical results for soil samples collected from borings B15 and B16 and monitoring well MW6, and groundwater samples collected from borings B15 and B16 are presented below in Tables C and D, respectively. Recent concentrations of total petroleum hydrocarbons as gasoline (TPHg) detected in groundwater from monitoring wells MW1 through MW6, borings B15 and B16, and SHN monitoring wells MW101 through MW106 are presented on Figure 3.

Table C: Soil Laboratory Analytical Results for March 28, 2006

Sample Idenitification	Sample Depth (feet bgs)	TPHg (µg/g)	Benzene (µg/g)	Toluene (µg/g)	Ethylbenzene (µg/g)	Total Xylenes (µg/g)	MTBE (µg/g)
3888-B15-4.25	4.25	ND<1.0	ND<0.0050	**0.0056**	ND<0.0050	ND<0.0050	ND<0.050
3888-B15-8.0	8.0	ND<1.0	ND<0.0050	**0.0054**	ND<0.0050	ND<0.0050	ND<0.050
3888-B15-10.5	10.5	**4.6**	ND<0.0050	ND<0.040	ND<0.040	ND<0.040	ND<0.050
3888-B15-13.0	13.0	**1.3**	ND<0.0050	ND<0.010	ND<0.0050	**0.0069**	ND<0.050
3888-B15-16.0	16.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050
3888-B16-4.0	4.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050
3888-B16-8.0	8.0	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050
3888-B16-12.0	12.0	**15**	ND<0.030	ND<0.20	**0.049**	**0.14**	**0.051**
3888-B16-16.0	16.0	**1.3**	ND<0.0050	ND<0.040	**0.0056**	**0.014**	ND<0.050
3888-MW6-8.0	8.0	ND<1.0	ND<0.0050	**0.0071**	ND<0.0050	ND<0.0050	ND<0.050
3888-MW6-15.0	15.0	**54**	ND<0.0050	ND<1.0	ND<0.30	ND<0.60	ND<0.050

Table D: Groundwater Laboratory Analytical Results for March 28, 2006						
Sample Idenitification	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)
3888-B15-GW	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0
3888-B16-GW	**1,900**	ND<5.0	ND<40	ND<10	ND<6.0	ND<10

CONCLUSIONS

- Borings B15 and B16 delineate the upgradient, north to northeastern extent of the TPHg soil plume associated with this site. The soil results for borings B15 and B16 are two to three orders of magnitude less than results reported for monitoring well MW2 and boring B13, near the core of the TPHg soil plume.

RECOMMENDATIONS

- LACO recommends the preparation of a limited Feasibility Study (FS) and Corrective Action Plan (CAP) to evaluate remedial options and determine appropriate and effective remediation techniques. The FS and CAP will also include an updated site conceptual model.

COMMENTS TO HCDEH CORRESPONDENCE

Responses to the HCDEH's comments in the December 22, 2005, correspondence regarding LACO's November 28, 2005, *Report of Findings: Boring and Monitoring Well Installation* follow with the HCDEH's comments in italics followed by LACO's responses.

- *We appreciate use of question marks on figures where there is not a level of certainty. We understand B13 recently recorded 3,000 ppm TPHg. This area of soil contamination is not delineated. Figure 4 shows TPHg concentrations in soil change from 3000 ppm to non-detect over a distance of less than five feet. We do not concur with the interpretation. We understand you recommend submitting a workplan because the extent of soil contamination in this vicinity is unknown. If it is unknown, in this area, use of question marks is appropriate on the figure.*

  Based on analytical data for soil available at the time of production of Figure 4 (Attachment 5), the use of question marks on the 100 parts per million (ppm) isocontour would have been appropriate for most of the northern to southeastern edge of the soil plume. Due to recent boring analytical results from B15 and B16 (Figure 2), the results for TPHg in soil suggest that the upgradient section, the northeastern extent, of the soil plume from the Blue Lake Market site is delineated and soil concentrations decrease by

three orders of magnitude in approximately 12 feet from monitoring well MW2 to boring B15, and by two orders of magnitude in approximately 20 feet from boring B13 to B16. However, the east-northeastern to east-southeastern limits of the soil plume in the area of the site building is not delineated and should be represented with question marks based on LACO's interpretation of the plume limits. The recommended CAP will include updated figures with a TPHg in soil isocontour map and areas where there is not a level of certainty will be indicated with question marks.

- *Figure 6 shows an interpretation of the groundwater plumes for the Blue Lake Belt and Leather (BLBL) site and the Blue Lake Market site. There is a level of certainty suggested at the northern edge of the plume, due to an absence of question marks. The data used to support this interpretation is not clear. An alternative interpretation is there are two separate groundwater plumes associated with the different sources.*

  The projection of the northern edge of the plume on Figure 6 (Attachment 6) was an interpretation, extrapolated from available data, and as such should have been presented with question marks to indicate the uncertainty in the projection. With the recent data from monitoring well MW6, the downgradient edge of the plume is now delineated. The recommended CAP will include updated figures with a "TPHg in groundwater isocontour map" and areas where there is not a level of certainty will be indicated with question marks. A discussion and interpretation regarding the existence of two different plumes associated with the two different sources, Blue Lake Market and Blue Lake Belt and Leather sites, will be addressed in the CAP.

- *The groundwater gradient map (Figure 10) does not include data from Monitoring Well Two (MW2) and Monitoring Well One (MW1). Please include all current data on gradient maps. How does this alter your interpretation?*

  The gradient illustrated in Figure 10 (Attachment 7) was calculated using monitoring well MW3 and SHN monitoring wells MW102 through MW106 while excluding monitoring wells MW1 and MW2 to illustrate a hydraulic gradient that represents the distribution of dissolved-phase TPHg as interpreted from historical site data. The interpretation presented in that report indicated that, based on the distribution of gasoline-range material impacts to groundwater across the site, the hydraulic gradient appears to be to the south-southwest. Included in Attachment 7 is Figure 3 from *Groundwater Monitoring Report; Third Quarter 2005* which includes the hydraulic gradient data used in Figure 10; however, all monitoring wells are included in the contours, and monitoring wells MW1,

MW2, and MW3 were used to calculate hydraulic gradient. The CAP will address hydraulic gradient and transport of contaminants from and across the site. Since the generation of Figure 10, data has been collected from monitoring wells MW4 through MW6 to aid in the hydrogeologic interpretation.

LIMITATIONS

LACO has exercised a standard of care equal to that generated for this industry to ensure that the information contained in this report is current and accurate. LACO disclaims any and all liability for any errors, omissions, or inaccuracies in the information and data presented in this report and/or any consequences arising therefrom, whether attributable to inadvertence or otherwise. LACO makes no representations or warranties of any kind including, but not limited to, any implied warranties with respect to the accuracy or interpretations of the data furnished. LACO assumes no responsibility of any third party reliance on the data presented, and that data generated for this report represents information gathered at that time and at the locations indicated. It should not be utilized by any third party to represent data for any other time or location. It is known that site and subsurface environmental conditions can change with time and under anthropologic influences. This report is valid solely for the purpose, site, and project described in this document. Any alteration, unauthorized distribution, or deviation from this description will invalidate this report.

LIST OF FIGURES, TABLES, AND ATTACHMENTS

Figure 1: Location Map
Figure 2: Site Map
Figure 3: Current TPHg in Groundwater, Borings and Monitoring Wells

Table 1: Historical Soil Analytical Results
Table 2: Historical Analytical Results for Groundwater- Borings
Table 3: Monitoring Well Data and Groundwater Analytical Results

Attachment 1: Key to Abbreviations
Attachment 2: Boring and Monitoring Well Logs
Attachment 3: Well Development Field Notes and Initial Sampling Field Forms for Monitoring Well MW6
Attachment 4: Laboratory Analytical Report

Attachment 5: Figure 4 from *Report of Findings: Boring and Monitoring Well Installation; November 28, 2006*

Attachment 6: Figure 6 from *Report of Findings: Boring and Monitoring Well Installation; November 28, 2006*

Attachment 7: Figure 10 from *Report of Findings: Boring and Monitoring Well Installation; November 28, 2006* and Figure 3 from *Groundwater Monitoring Report; Third Quarter 2005* dated October 13, 2005

TBB:jg

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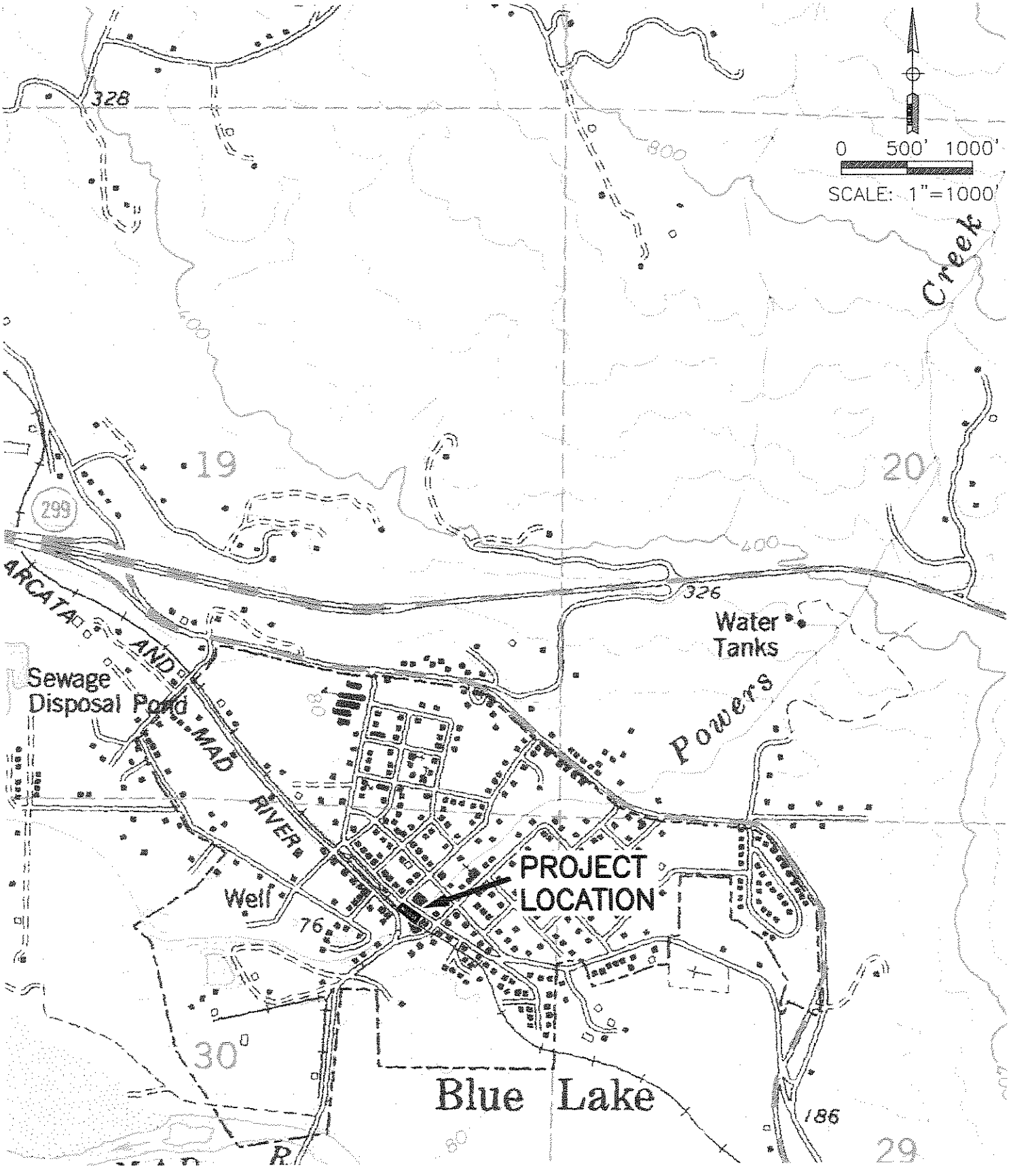
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT REPORT OF FINDINGS	BY RJM	FIGURE 1
	CLIENT PAT FOLKINS	DATE 6/08/06	
	LOCATION BLUE LAKE MARKET	CHECK	JOB NO. 3888.02
	LOCATION MAP	SCALE 1"=1000'	



Jul 13,2006-4:10pm
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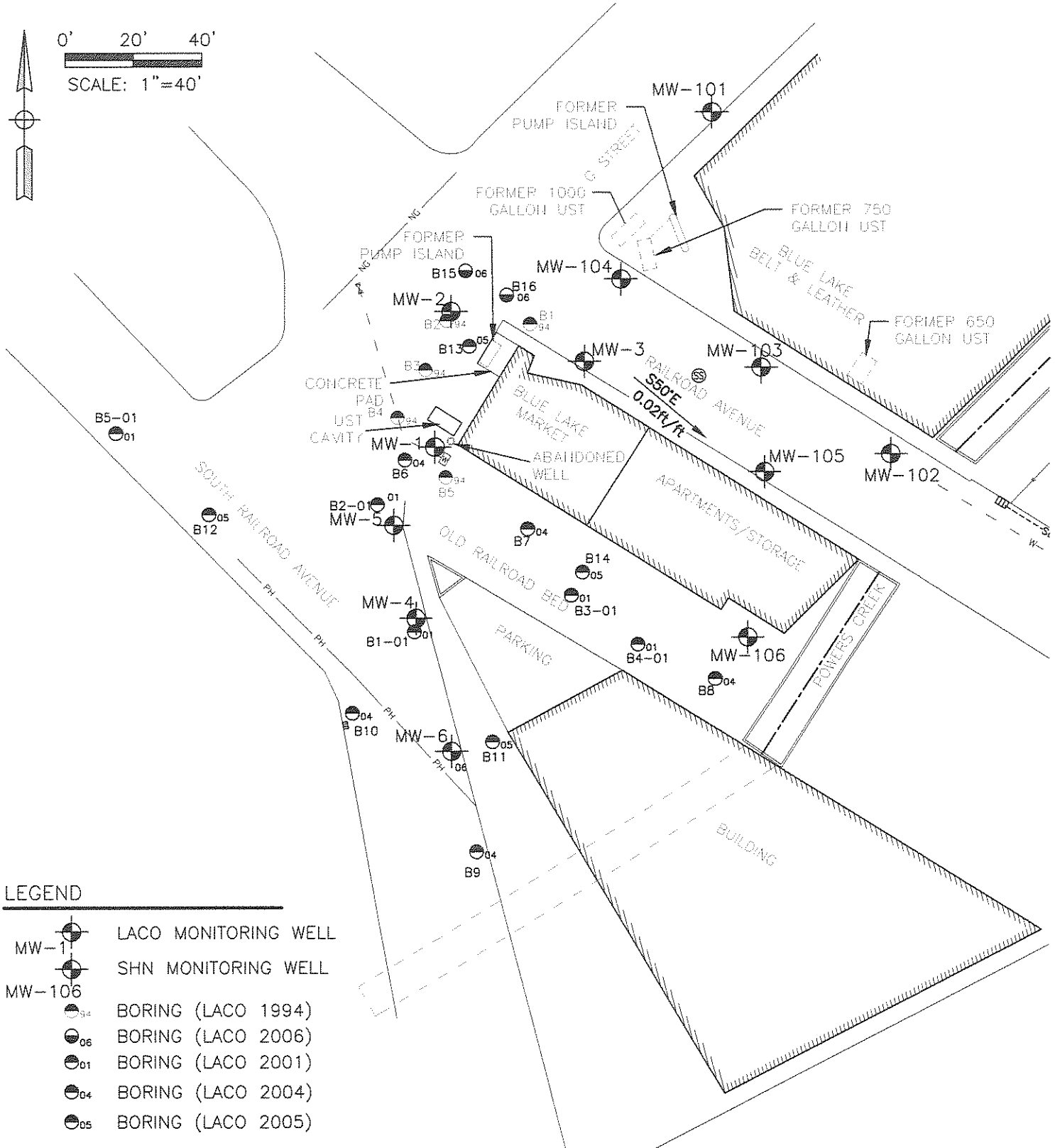
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT REPORT OF FINDINGS	BY RJM	FIGURE 2
	CLIENT PAT FOLKINS	DATE 6/19/06	
	LOCATION BLUE LAKE MARKET	CHECK	JOB NO. 3888.02
	SITE MAP	SCALE 1"=40'	



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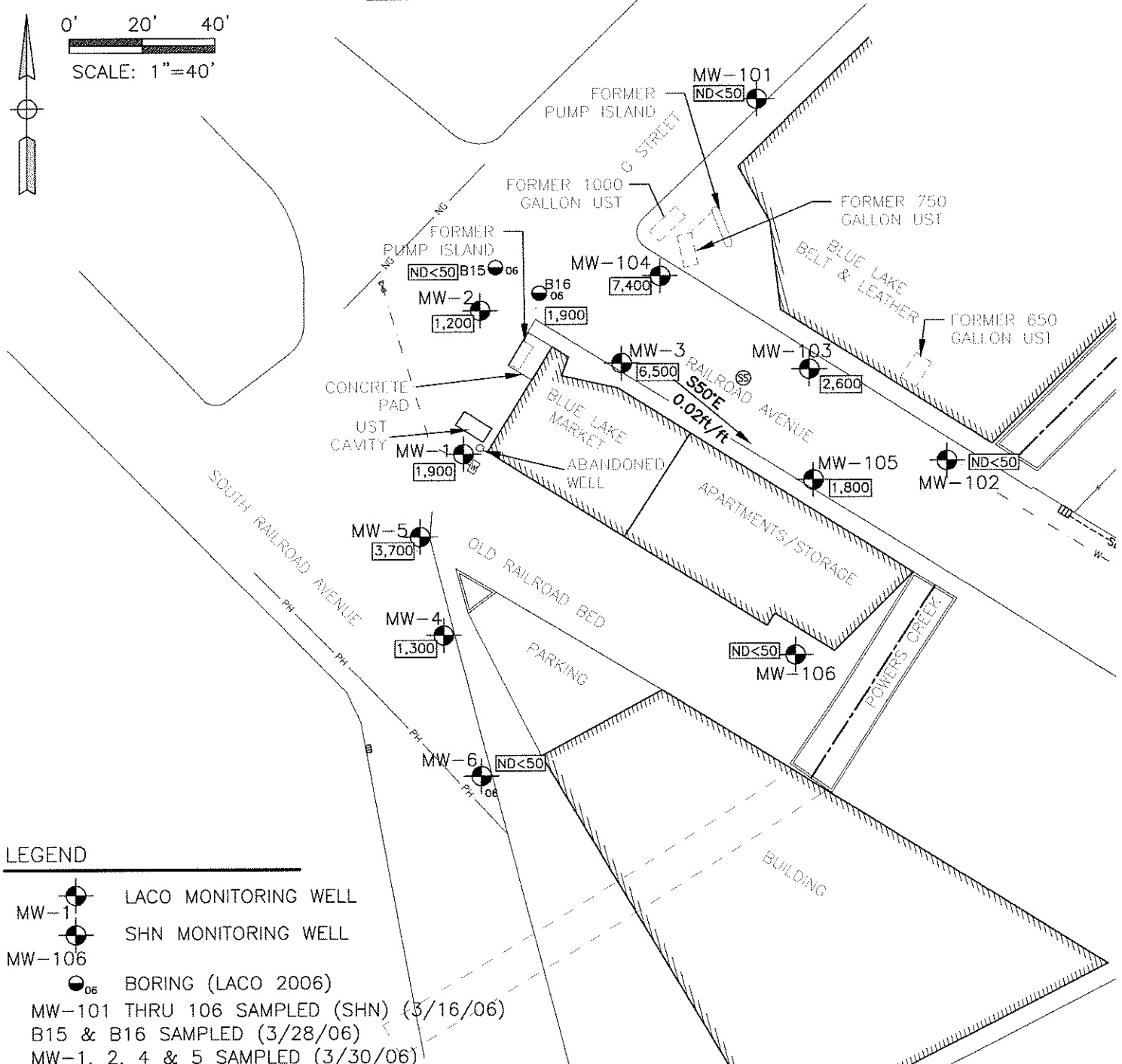
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT REPORT OF FINDINGS	BY RJM	FIGURE 3
	CLIENT PAT FOLKINS	DATE 6/08/06	
	LOCATION BLUE LAKE MARKET	CHECK	JOB NO. 3888.02
	CURRENT TPHg IN GROUNDWATER, BORING & MONITORING WELLS	SCALE 1"=40'	



LEGEND

MW-1 LACO MONITORING WELL

MW-106 SHN MONITORING WELL

06 BORING (LACO 2006)

MW-101 THRU 106 SAMPLED (SHN) (3/16/06)
B15 & B16 SAMPLED (3/28/06)
MW-1, 2, 4 & 5 SAMPLED (3/30/06)
MW-6 SAMPLED (4/04/06)

ND<50 = BELOW DETECTION LIMITS

ALL RESULTS REPORTED IN MICROGRAMS PER LITER (µg/L)

S50°E 0.02ft/ft

HYDRAULIC GRADIENT CALCULATED FOR FIRST QUARTER 2006, GROUNDWATER MONITORING REPORT BASED ON THREE POINT METHOD USING HYDRAULIC HEAD ELEVATIONS OF MW103, MW104 & MW106 ON 3/16/06

Jul 13,2006-4:15pm
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TABLE 1: HISTORICAL SOIL ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

Sample Identification	Depth (feet bgs)	Sample Date	TPHg (µg/g)	Benzene (µg/g)	Toluene (µg/g)	Ethylbenzene (µg/g)	Xylenes (µg/g)	MTBE (µg/g)	Organic Lead (µg/g)
2006 Investigation									
3888-B15-S4.25	4.25	**3/28/2006**	ND<1.0	ND<0.0050	**0.0056**	ND<0.0050	ND<0.0050	ND<0.050	---
3888-B15-S8.0	8.0	**3/28/2006**	ND<1.0	ND<0.0050	**0.0054**	ND<0.0050	ND<0.0050	ND<0.050	---
3888-B15-S10.5	10.5	**3/28/2006**	**4.6**	ND<0.0050	ND<0.040	ND<0.040	ND<0.040	ND<0.050	---
3888-B15-S13.0	13.0	**3/28/2006**	**1.3**	ND<0.0050	ND<0.010	ND<0.0050	**0.0069**	ND<0.050	---
3888-B15-S16.0	16.0	3/28/2006	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
3888-B16-S4.0	4.0	3/28/2006	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
3888-B16-S8.0	8.0	3/28/2006	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.050	---
3888-B16-S12.0	12.0	**3/28/2006**	**15**	ND<0.030	ND<0.20	**0.049**	**0.14**	**0.051**	---
3888-B16-S16.0	16.0	**3/28/2006**	**1.3**	ND<0.0050	ND<0.040	**0.0056**	**0.014**	ND<0.050	---
3888-MW6-S8.0	8.0	**3/28/2006**	ND<1.0	ND<0.0050	**0.0071**	ND<0.0050	ND<0.0050	ND<0.050	---
3888-MW6-S15.0	15.0	**3/28/2006**	**54**	ND<0.0050	ND<1.0	ND<0.30	ND<0.60	ND<0.050	---
2005 Investigation									
3888-B11-S4	4	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B11-S8	8	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B11-S11.5	11.5	**9/13/2005**	**1.8**	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B11-S15.5	15.5	**9/13/2005**	**6.4**	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B12-S4	4	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B12-S8	8	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B12-S12	12	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B12-S16	16	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B13-S1.6	1.6	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B13-S8	8	**9/13/2005**	**940**	ND<0.5	**1.2**	**9.2**	**93**	ND<5.0	---
3888-B13-S10	10	**9/13/2005**	**150**	**0.028**	**3.1**	**3.0**	**22.7**	ND<0.05	---
3888-B13-S12	12	**9/13/2005**	**1,300**	ND<0.5	ND<8.0	**6.7**	**30.7**	ND<5.0	---
3888-B13-S13.5	13.5	**9/13/2005**	**3,000**	ND<1.0	ND<20	**20**	**92.4**	ND<5.0	---
3888-B13-S16	16	**9/13/2005**	**1.5**	ND<0.005	ND<0.005	**0.0099**	**0.0391**	ND<0.05	---
3888-B14-S4	4	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-B14-S8	8	**9/13/2005**	**2.5**	**0.011**	ND<0.040	**0.014**	**0.019**	ND<0.05	---
3888-B14-S10	10	**9/13/2005**	**5.1**	**0.025**	ND<0.005	**0.018**	**0.029**	ND<0.05	---
3888-B14-S14	14	**9/13/2005**	**3.7**	**0.021**	ND<0.005	**0.046**	**0.012**	ND<0.05	---
3888-B14-S16	16	9/13/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-MW4-S8	8	**9/14/2005**	ND<1.0	ND<0.005	**0.0072**	ND<0.005	**0.0162**	ND<0.05	---
3888-MW4-S12	12	9/14/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-MW4-S14	14	**9/14/2005**	**6.6**	**0.012**	**0.023**	**0.047**	**0.029**	ND<0.05	---
3888-MW4-S16	16	**9/14/2005**	**1.3**	ND<0.005	ND<0.005	**0.0085**	**0.012**	ND<0.05	---
3888-MW5-S4	4	**9/14/2005**	**2.8**	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-MW5-S8	8	9/14/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-MW5-S12	12	9/14/2005	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
3888-MW5-S16	16	**9/14/2005**	**1.5**	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	---
2004 Investigation									
B6	4	2/23/2004	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.025	---
	5	2/23/2004	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.025	---
	8	2/23/2004	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.025	---
	12	**2/23/2004**	**130**	**0.029**	**0.018**	**0.55**	**0.18**	ND<0.025	---
B7	5.5	2/23/2004	ND<1.0	ND<0.0050	ND<0.0050	ND<0.0050	ND<0.010	ND<0.025	---
	9	**2/23/2004**	**2.1**	**0.013**	ND<0.0050	ND<0.0050	ND<0.010	ND<0.025	---
	13	**2/23/2004**	**1.5**	**0.035**	ND<0.0050	**0.0099**	**0.011**	ND<0.025	---
B8	---	2/23/2004	**No Soil Samples Collected**						
B9	---	2/23/2004	**No Soil Samples Collected**						
B10	---	2/23/2004	**No Soil Samples Collected**						

TABLE 1: HISTORICAL SOIL ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

Sample Identification	Depth (feet bgs)	Sample Date	TPHg (µg/g)	Benzene (µg/g)	Toluene (µg/g)	Ethylbenzene (µg/g)	Xylenes (µg/g)	MTBE (µg/g)	Organic Lead (µg/g)
2001 Investigation									
B1-01	4	7/26/2001	ND < 1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <0.050	ND<0.5
B1-01	9	7/26/2001	ND < 1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <0.050	ND<0.5
B1-01	14	**7/26/2001**	**3.7**	**0.0075**	ND<0.03	**0.027**	**0.022**	ND<0.05	ND<0.5
B2-01	4	7/26/2001	ND < 1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <0.050	ND<0.5
B2-01	9	7/26/2001	ND < 1.0	ND <0.005	ND <0.005	ND <0.005	ND <0.005	ND <0.050	ND<0.5
B2-01	14	**7/26/2001**	**4.7**	**0.02**	ND<0.02	**0.035**	**0.024**	ND <0.50	ND<0.5
B3-01	4	**7/26/2001**	ND<1.0	ND<0.005	ND<0.005	ND<0.005	**0.0053**	ND<0.05	ND<0.5
B3-01	9	**7/26/2001**	**2.4**	ND<0.005	ND<0.02	ND<0.005	**0.01**	ND<0.05	ND<0.5
B3-01	14	**7/26/2001**	**94**	ND<0.2	ND<0.8	**0.62**	**2.05**	ND<0.05	ND<0.5
B4-01	4	**7/26/2001**	**2.9**	**0.0068**	ND<0.03	**0.0093**	**0.015**	ND<0.05	ND<0.5
B4-01	9	**7/26/2001**	**17**	**0.017**	ND<0.2	ND<0.1	ND<0.1	ND<0.05	ND<0.5
B4-01	14	**7/26/2001**	**62**	**0.12**	ND<0.7	**0.27**	**0.26**	ND<0.05	ND<0.5
B5-01	4	**7/27/2001**	ND<1.0	ND<0.005	ND<0.005	ND<0.005	**0.0061**	ND<0.05	ND<0.5
B5-01	9	7/27/2001	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.5
B5-01	14	7/27/2001	ND<1.0	ND<0.005	ND<0.005	ND<0.005	ND<0.005	ND<0.05	ND<0.5
1994 Investigation									
B1	17	**9/13/1994**	**2.5**	ND<0.0050	ND<0.030	**0.015**	**0.041**	---	---
B2	7	**9/13/1994**	**330**	ND<0.10	**1.7**	**3.0**	**27**	---	---
B3	5-9	**9/13/1994**	**770**	ND<.25	**1.7**	**3.8**	**46**	---	---
B4	9-14	**9/13/1994**	**25**	ND<0.0050	ND<0.040	ND<0.25	ND<0.25	---	---
B5	8.5	**9/13/1994**	**1,400**	ND<1.0	ND<10	**7.3**	**23**	---	---
1994 Investigation continued									
MW1	5-6.5	**12/23/1994**	ND<1.0	ND<0.0050	**0.0083**	ND<0.0050	**0.01**	---	---
	10-11.5	**12/23/1994**	**6.2**	**0.041**	ND<0.050	ND<0.050	ND<.10	---	---
	15.16.5	**12/23/1994**	**170**	ND<0.050	ND<0.10	ND<2.0	ND<2.0	---	ND<5.0
MW2	10-11.5	**12/23/1994**	**1,100**	ND<0.50	**16**	**14**	**102**	---	---
	15-16.5	**12/23/1994**	**1.9**	ND<0.0050	**0.028**	**0.039**	**0.236**	---	---
MW3	10-11.5	**12/23/1994**	**52**	**0.1**	**1.7**	**0.53**	**2.9**	---	---
	15-16.5	**12/23/1994**	**140**	**0.1**	ND<2.0	**0.65**	**2.77**	---	---
1990 Tank Removal									
East Sample	7	**2/21/1990**	**100**	ND<0.50	ND<0.50	**1.3**	**1.64**	---	---
West Sample	7	**2/21/1990**	**680**	ND<0.50	**3.7**	**7.3**	**48**	---	---

NOTES:

TPHg - total petroleum hydrocarbons as gasoline
MTBE - methyl tertiary butyl ether
Additional analytes include the fuel oxygenates
bgs = below ground surface
3888-B11-S4 = project number, boring B11, soil sample collected at 4 feet bgs
B1-01 = boring B1 installed in 2001
ND = non-detect at reporting limit shown
Bold results indicate analyte detection
--- = not sampled or analyzed
All results reported in micrograms per gram = µg/g

TABLE 2: HISTORICAL ANALYTICAL RESULTS FOR GROUNDWATER - BORINGS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

Boring Identification	Sample Date	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Additional Analytes (µg/L)	Organic Lead (µg/L)
2006 Investigation									
3888-B15-GW	3/28/2006	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	---	---
3888-B16-GW	**3/28/2006**	**1,900**	ND<5.0	ND<40	ND<10	ND<6.0	ND<10	---	---
2005 Investigation									
3888-B11-W	**9/13/2005**	**1,500**	**2.9**	**3.9**	**0.80**	**3.5**	ND<1.0	ND<1-10	---
3888-B12-W	9/13/2005	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10	---
3888-B13-W	**9/13/2005**	**280,000**	**25**	**60**	**3,900**	**15,300**	ND<50	ND<50-500	---
3888-B14-W	**9/13/2005**	**3,300**	**210**	**34**	**110**	**63.2**	ND<50	ND<50-500	---
2004 Investigation									
B6	**2/23/2004**	**41,000**	**330**	**44**	**550**	**180**	ND<50	ND<50-100	---
B7	**2/23/2004**	**2,500**	**220**	**25**	**33**	**25.4**	ND<1.0	ND<1.0-10	---
B8	2/23/2004	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10	---
B9	2/23/2004	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10	---
B10	**2/23/2004**	**97**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10	---
2001 Investigation									
B1-01	**7/27/2001**	**1,900**	**74**	**16**	**33**	**8.8**	ND<1.0	All ND	ND<0.010
B2-01	**7/27/2001**	**2,800**	**180**	**24**	**67**	**17.4**	ND<1.0	All ND	ND<0.010
B3-01	**7/27/2001**	**17,000**	**370**	**76**	**440**	**756**	ND<1.0	All ND	ND<0.010
B4-01	**7/27/2001**	**1,900**	**110**	**13**	**26**	**22.3**	ND<1.0	All ND	ND<0.010
B5-01	7/27/2001	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<1.0	All ND	ND<0.010
1994 Investigation									
B1	9/13/1994	**No Groundwater Samples Collected**							
B2	9/13/1994	**No Groundwater Samples Collected**							
B3	9/13/1994	**No Groundwater Samples Collected**							
B4	9/13/1994	**No Groundwater Samples Collected**							
B5	9/13/1994	**No Groundwater Samples Collected**							
1990 Tank Removal									
Cavity	**2/21/1990**	**4,300**	**250**	**410**	**240**	**1,200**	---	---	---
Abondoned Well	**2/21/1990**	**1,100**	**13**	**49**	**18**	**117**	---	---	---

NOTES:
TPHg - total petroleum hydrocarbons as gasoline
MTBE - methyl tertiary butyl ether
Additional analytes include the fuel oxygenates
3888-B11-W = project number, boring B11, water sample
B1-01 = boring B1 installed in 2001
ND = non-detect at reporting limit shown
Bold results indicate analyte detection
--- = not sampled or analyzed
All results reported in micrograms per liter = µg/L

TABLE 3: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	FOOT NOTES
MW-1	(SCREENED 5-15 FEET BGS)									
12/29/1994	93.28	88.27	5.01	---	---	---	---	---	---	
1/12/1995		89.18	4.10	**2,000**	**53**	**16**	**42**	**49**	---	
2/27/1995		87.05	6.23	---	---	---	---	---	---	
3/22/1995		86.80	6.48	---	---	---	---	---	---	
4/12/1995		87.42	5.86	**1,100**	**40**	**25**	**49**	**59**	---	
5/8/1995		86.94	6.34	---	---	---	---	---	---	
6/6/1995		86.43	6.85	---	---	---	---	---	---	
8/11/1995		82.82	10.46	---	---	---	---	---	---	
10/31/1995		81.13	12.15	**4,100**	**280**	**37**	**63**	**46**	---	
12/14/1995		88.52	4.76	---	---	---	---	---	---	
1/15/1996		88.80	4.48	---	---	---	---	---	---	
4/5/1996		87.62	5.66	**4,200**	**180**	**180**	**230**	**370**	ND <100	2
8/2/1996		82.37	10.91	---	---	---	---	---	---	
5/2/1997		87.22	6.06	**3,900**	**170**	**50**	**120**	**105**	ND <100	1,2
8/15/1997		82.03	11.25	**4,700**	**610**	**75**	**88**	**81**	ND <100	1,2
5/13/1998		86.54	6.74	**810**	**25**	**5**	**33**	**16**	ND <25	1,2
5/14/1999		86.64	6.64	**2,400**	**220**	**38**	**96**	**57**	**97**	1
8/10/1999		82.28	11.00	**6,800**	**850**	**110**	**470**	**298**	ND <200	1,2
12/2/1999		88.23	5.05	**320**	**41**	**4.2**	**15**	**4.9**	ND<40	2
3/1/2000		88.17	5.11	**5,200**	**270**	**28**	**45**	**36**	ND <80	1,2
6/1/2000		86.64	6.64	**5,300**	**330**	**85**	**250**	**183**	ND <200	1,2,4
9/13/2000		81.14	12.14	**4,600**	**690**	**37**	**110**	**25**	ND <140	1,2
12/1/2000		82.00	7.45	**7,900**	**410**	**53**	**210**	**79**	ND<200	1,3
3/1/2001		83.05	6.40	**970**	**88**	**12**	**41**	**20**	ND<50	1,2
6/4/2001		80.39	9.06	**3,700**	**210**	**17**	**160**	**49**	ND<1.3	2
9/7/2001		77.35	12.10	**3,100**	**690**	**30**	**53**	**37**	ND<1.0	1
12/3/2001		84.96	4.49	**71**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	1,4
3/13/2002		84.52	4.93	**420**	**11**	ND<5.0	**5.4**	**3.8**	ND<27	1,2
6/5/2002		81.00	8.45	**2,400**	**63**	**32**	**49**	**39**	ND<70	1,2
9/3/2002		81.27	12.01	**3,800**	**210**	ND<70	**29**	ND<25	ND<110	1,2
1/2/2003		88.72	4.56	**400**	ND<2.0	ND<4.0	ND<2.0	ND<0.50	ND<10	
3/3/2003		---	---	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	
6/2/2003		86.63	6.65	**1,300**	**43**	ND<30	**29**	**9.6**	ND<30	2, 5, 6
9/11/2003		81.80	11.48	**1,400**	**69**	ND<14	ND<15	ND<8.0	ND<50	2
12/1/2003		87.74	5.54	**1,500**	**38**	ND<20	**19**	**14**	ND<80	2, 5, 6
3/3/2004		87.60	5.68	**160**	ND<0.50	ND<0.50	**0.54**	ND<0.50	ND<1.0	8
6/9/2004		84.78	8.50	**1,500**	**21**	ND<28	**33**	**11**	ND<60	5, 6
9/2/2004		81.55	11.73	**1,000**	**37**	ND<18	ND<5.0	ND<3.0	ND<40	2, 11
12/1/2004		86.70	6.58	**330**	**4.9**	ND<4.0	**1.7**	**0.91**	ND<14	2, 11
3/1/2005		87.32	5.96	**990**	ND<10	ND<15	ND<15	ND<7.0	ND<35	
6/1/2005		86.81	6.47	**2,600**	**27**	ND<30	**18**	**10**	ND<80	3,6,11
9/1/2005		82.37	10.91	**1,700**	**24**	ND<25	ND<10	ND<10	ND<60	2, 6, 11
12/1/2005		89.67	3.61	**1,300**	**9.1**	ND<15	**3.4**	**2.4**	ND<50	
3/30/2006		87.38	5.90	**1,900**	**9.3**	**1.6**	**4.1**	**3.8**	ND<1.0	

TABLE 3: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	FOOT NOTES
MW-2	(SCREENED 4-14 FEET BGS)									
12/29/1994	95.13	89.00	6.13	---	---	---	---	---	---	
1/12/1995		90.05	5.08	**10,000**	**14**	**290**	**250**	**1,670**	---	
2/27/1995		87.63	7.50	---	---	---	---	---	---	
3/22/1995		87.55	7.58	---	---	---	---	---	---	
4/12/1995		88.13	7.00	**1,400**	**1.0**	**36**	**24**	**310**	---	
5/8/1995		87.68	7.45	---	---	---	---	---	---	
6/6/1995		87.19	7.94	---	---	---	---	---	---	
8/11/1995		83.57	11.56	---	---	---	---	---	---	
10/31/1995		82.25	12.88	---	---	---	---	---	---	
12/14/1995		89.18	5.95	---	---	---	---	---	---	
1/15/1996		89.15	5.98	---	---	---	---	---	---	
4/5/1996		88.31	6.82	**5,500**	**7.3**	**85**	**92**	**720**	ND <5.0	
8/2/1996		83.08	12.05	---	---	---	---	---	---	
5/2/1997		87.86	7.27	**5,800**	**12**	**95**	**170**	**860**	ND <50	2
8/15/1997		82.31	12.82	---	---	---	---	---	---	
5/13/1998		87.25	7.88	**3,700**	**5.8**	**28**	**100**	**510**	ND <25	1,2
5/14/1999		87.32	7.81	**9,800**	**21**	**210**	**380**	**1,910**	**13**	1
8/10/1999		82.59	12.54	**2,400**	**15**	**40**	**67**	**306**	ND <25	1,2
12/2/1999		88.93	6.20	**14,000**	**33**	**110**	**560**	**2,290**	ND<50	
3/1/2000		88.70	6.43	**7,000**	**8.6**	**86**	**160**	**820**	ND<30	1,3
6/1/2000		87.31	7.82	**12,000**	**19**	**200**	**290**	**1,630**	ND<30	1,3
9/13/2000		82.32	12.81	---	---	---	---	---	---	
12/1/2000		85.23	6.04	**9,800**	**19**	**120**	**220**	**1,010**	ND<30	1,2
3/1/2001		83.73	7.54	**3,000**	**9**	**43**	**100**	**502**	ND<30	3
6/4/2001		81.22	10.05	**2,300**	**5**	**8.4**	**35**	**229.3**	ND<1.3	2
9/7/2001		78.42	12.85	---	---	---	---	---	---	
12/3/2001		85.48	5.79	**4,700**	**7.3**	**43**	**110**	**650**	ND<1.0	1
3/13/2002		84.83	6.44	**15,000**	**29**	**290**	**640**	**2,600**	ND<70	1,2
6/5/2002		81.95	9.32	**3,400**	**9.8**	**21**	**87**	**253**	ND<11	1,2
9/3/2002		82.23	12.90	Insufficient water in the well to obtain a sample						
1/2/2003		89.35	5.78	**12,000**	ND<25	**97**	**470**	**1,910**	ND<150	
3/3/2003		87.76	7.37	**270**	ND<0.50	ND<5.5	**2.4**	**12.3**	ND<3.0	
6/2/2003			7.81	**860**	**0.76**	**6.6**	**28.0**	**75.0**	ND<3.0	5
9/11/2003		82.47	12.66	**3,900**	**28**	**53**	**190**	**468**	ND<35	2, 5
12/1/2003		88.02	7.11	**6,700**	**14**	**62**	**330**	**1,130**	ND<30	3, 5
3/3/2004		88.18	6.95	**2,200**	**1.2**	**2.4**	**50**	**161**	ND<1.0	5
6/9/2004		85.70	9.43	**970**	ND<3.0	ND<10	**22**	**58**	ND<3.0	2, 3, 5
9/2/2004		81.32	13.81	**2,600**	**16**	**26**	**92**	**258**	ND<30	3, 10
12/1/2004		87.25	7.88	**2,200**	**5**	**15**	**110**	**291**	ND<30	3, 5
3/1/2005		87.80	7.33	**1,100**	ND<2.0	**10**	**19**	**55.9**	ND<3.0	
6/1/2005		87.51	7.62	**970**	**1.1**	ND<15	**9.0**	**21.1**	ND<3.0	2,11
9/1/2005		82.80	12.33	**3,200**	**19**	**57**	**130**	**410**	ND<30	3, 5
12/1/2005		90.22	4.91	**1,500**	ND<5.0	**6.9**	**63**	**167**	ND<30	
3/30/2006		87.94	7.19	**1,200**	**0.69**	ND<0.50	**8.0**	**17**	ND<1.0	

TABLE 3: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	FOOT NOTES
MW-3	(SCREENED 5-15 FEET BGS)									
12/29/1994	95.45	88.50	6.95	---	---	---	---	---	---	
1/12/1995		89.22	6.23	**21,000**	**130**	**590**	**170**	**770**	---	
2/27/1995		88.47	6.98	---	---	---	---	---	---	
3/22/1995		88.37	7.08	---	---	---	---	---	---	
4/12/1995		87.82	7.63	**14,000**	**130**	**430**	**360**	**2,080**	---	
5/8/1995		87.45	8.00	---	---	---	---	---	---	
6/6/1995		86.93	8.52	---	---	---	---	---	---	
8/11/1995		83.02	12.43	---	---	---	---	---	---	
10/31/1995		81.43	14.02	---	---	---	---	---	---	
12/14/1995		88.73	6.72	---	---	---	---	---	---	
1/15/1996		88.93	6.52	---	---	---	---	---	---	
4/5/1996		88.15	7.30	**11,000**	**120**	**330**	**260**	**980**	ND <500	2
8/2/1996		82.57	12.88	---	---	---	---	---	---	
5/2/1997		87.48	7.97	**7,600**	**46**	**110**	**79**	**459**	ND <100	2
8/15/1997		82.02	13.43	**7,600**	**160**	**440**	**160**	**630**	ND <100	2
5/13/1998		87.00	8.45	**9,100**	**76**	**280**	**280**	**1,390**	ND <500	2
5/14/1999		87.09	8.36	**5,200**	**74**	**160**	**180**	**640**	**140**	
8/10/1999		82.26	13.19	**14,000**	**130**	**310**	**130**	**510**	ND <200	1,2
12/2/1999		88.16	7.29	**6,400**	**87**	**340**	**200**	**810**	ND <300	2
12/2/1999		Duplicate		**5,200**	**80**	**260**	**210**	**710**	ND <400	2
3/1/2000		88.20	7.25	**7,200**	**64**	**390**	**180**	**730**	ND <150	1,3
6/1/2000		87.09	8.36	**7,100**	**73**	**330**	**170**	**630**	ND <140	2
9/13/2000		81.52	13.93	---	---	---	---	---	---	
12/1/2000		83.54	8.07	**13,000**	**79**	**290**	**230**	**720**	ND<150	1,3
3/1/2001		83.43	8.18	**8,500**	**78**	**330**	**200**	**680**	ND<150	3
6/4/2001		80.70	10.91	**4,800**	**14**	**14**	**68**	**103.4**	ND<0.5	2
9/7/2001		77.41	14.20	---	---	---	---	---	---	
12/3/2001		84.83	6.78	**9,900**	**24**	**52**	**210**	**454**	ND<1.0	1
3/13/2002		84.28	7.33	---	---	---	---	---	---	
6/5/2002		81.38	10.23	**8,100**	**28**	ND<140	**69**	**147**	ND<250	1,2
9/3/2002		81.57	13.88	Insufficient water in the well to obtain a sample						
1/2/2003		88.50	6.95	**23,000**	**390**	**2,700**	**810**	**4,000**	ND<150	
3/3/2003		87.50	7.95	**7,500**	**32**	ND<180	**62**	**415**	ND<200	
6/2/2003		87.03	8.42	**5,600**	**36**	ND<110	**86**	**180**	ND<170	5, 6, 7
9/11/2003		82.04	13.41	**9,900**	**230**	**210**	**120**	**680**	ND<270	5, 6
12/1/2003		87.62	7.83	**10,000**	**77**	**120**	**200**	**594**	ND<400	5, 6
3/3/2004		87.84	7.61	**4,500**	**7.5**	**12**	**48**	**206**	ND<1.0	5
6/9/2004		85.06	10.39	**4,800**	ND<50	ND<100	**55**	**89**	ND<120	5, 6
9/2/2004		81.77	13.68	**4,500**	**59**	**50**	**73**	**109**	ND<140	5, 6

TABLE 3: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	FOOT NOTES
MW-3 (continued)										
12/1/2004		87.06	8.39	**7,500**	**120**	**340**	**180**	**554**	ND<300	3, 4, 5
3/1/2005		87.61	7.84	**11,000**	**160**	**690**	**370**	**1,010**	---	5
6/1/2005		87.36	8.09	Not sampled						
6/1/2005 *		87.38	8.07	**10,000**	**120**	**480**	**340**	**820**	---	--
9/1/2005		82.53	12.92	Not sampled						
9/1/2005 *		82.53	12.92	**6,700**	**68**	**160**	**110**	**208**	---	5
12/1/2005		---	---	Inaccessible						
12/5/2005*		88.14	7.31	**14,000**	**180**	**1,600**	**480**	**1,900**	---	
3/16/2006*		88.24	7.21	**6,500**	**49**	**250**	**140**	**480**	---	
3/30/2006		87.80	7.65	Not sampled						
MW-4	**(SCREENED 10-15 FEET BGS)**									
12/1/2005	93.06	---	Dry	Insufficient water in the well to obtain a sample						
3/30/2006		86.13	6.93	**1,300**	**19**	**4.5**	**50**	**63**	ND<1.0	
MW-5	**(SCREENED 10-15 FEET BGS)**									
12/1/2005	92.81	89.00	3.81	**1,400**	**27**	**12**	**42**	**24**	ND<25	
3/30/2006		86.74	6.07	**3,700**	**110**	**22**	**97**	**154**	ND<1.0	
MW-6	**(SCREENED 5-15 FEET BGS)**									
4/4/2006	93.80	85.76	8.04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	
MW-101*	**(SCREENED 5-15 FEET BGS)**									
3/1/2001	96.31	88.72	7.59	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
6/4/2001		86.61	9.70	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
9/4/2001		82.67	13.64	---	---	---	---	---	---	
12/3/2001		90.47	5.84	**160**	ND<0.5	ND<4.0	ND<0.5	ND<0.5	ND<3.0	1,2
3/1/2002		89.13	7.18	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
6/5/2002		87.18	9.13	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
9/3/2002		82.65	13.66	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
12/2/2002		83.15	13.16	**64**	ND<0.5	ND<2.8	ND<0.5	ND<0.5	ND<3.0	
3/3/2003		88.93	7.38	ND<50	ND<0.5	ND<2.8	ND<0.5	ND<0.5	ND<3.0	
6/2/2003		88.50	7.81	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	
9/11/2003		---	---	---	---	---	---	---	---	
12/1/2003		89.00	7.31	**50**	ND<0.50	ND<1.4	ND<0.50	ND<0.50	---	2, 8, 9
3/3/2004		89.71	6.60	ND<50	ND<0.50	ND<1.4	ND<0.50	ND<0.50	---	
6/1/2004		88.37	7.94	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
9/2/2004		82.91	13.40	**90**	ND<0.50	ND<3.0	ND<0.50	ND<0.50	---	2, 8
12/1/2004		88.35	7.96	No sample collected						
3/1/2005		88.51	7.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	12
6/1/2005		88.30	8.01	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	--
9/1/2005		---	DRY	No sample collected						
12/5/2005		89.26	7.05	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	--
3/16/2006		89.33	6.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	--

TABLE 3: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	FOOT NOTES
MW-102*	(SCREENED 5-20 FEET BGS)									
3/1/2001	95.49	87.57	7.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
6/4/2001		85.06	10.43	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
9/4/2001		81.81	13.68	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
12/3/2001		88.66	6.83	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
3/1/2002		87.93	7.56	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
6/5/2002		85.62	9.87	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
9/3/2002		81.76	13.73	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
12/2/2002		82.28	13.21	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
3/3/2003		87.87	7.62	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
6/2/2003		87.47	8.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	
9/11/2003		---	---	---	---	---	---	---	---	
12/1/2003		87.84	7.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	9
3/3/2004		88.26	7.23	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
6/1/2004		87.20	8.29	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
9/2/2004		82.06	13.43	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
12/1/2004		87.47	8.02	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
3/1/2005		87.83	7.66	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	12
6/1/2005		87.69	7.80	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	--
9/1/2005		82.62	12.87	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	--
12/5/2005		88.26	7.23	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	--
3/16/2006		88.42	7.07	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	--
MW-103*	(SCREENED 6-19 FEET BGS)									
3/1/2001	95.92	87.71	8.21	**2,900**	**27**	**37**	**35**	**63**	ND<60	1,2
6/4/2001		85.21	10.71	**3,200**	**42**	ND<80	**16**	**30.4**	ND<30	1,2
9/4/2001		81.93	13.99	**1,300**	**18**	ND<40	**8**	**5.4**	ND<32	1, 2
12/3/2001		88.93	6.99	**5,700**	**150**	**160**	**95**	**219**	ND<150	1,2
3/1/2002		88.03	7.89	**5,700**	**100**	**170**	**83**	**380**	ND<150	2
6/5/2002		85.71	10.21	**3,900**	**25**	ND<110	**35**	**50**	ND<80	1,2
9/3/2002		81.86	14.06	**1,600**	**21**	ND<35	**11**	**7.0**	ND<30	1,2
12/2/2002		82.42	13.50	**5,700**	**280**	**110**	**190**	**336**	ND<120	
3/3/2003		87.95	7.97	**4,400**	**47**	ND<200	**74**	**229**	---	
6/2/2003		87.54	8.38	**2,400**	**14**	ND<70	**15**	**17.3**	ND<30	3, 5, 6
9/11/2003		---	---	---	---	---	---	---	---	
12/1/2003		87.99	7.93	**3,500**	**49**	ND<90	**48**	**58.6**	---	8
3/3/2004		88.38	7.54	**5,800**	**100**	**160**	**130**	**343**	---	
6/1/2004		87.32	8.60	**2,100**	**15**	ND<110	**32**	**40**	---	
9/2/2004		82.19	13.73	**1,800**	**36**	**18**	**24**	**28.8**	---	5
12/1/2004		87.60	8.32	**2,400**	**42**	**40**	**41**	**47.4**	---	5
3/1/2005		88.01	7.91	**3,700**	**58**	**82**	**67**	**125**	---	5
6/1/2005		87.83	8.09	**2,700**	**33**	**47**	**46**	**79**	---	--
9/1/2005		82.80	13.12	**7,400**	**130**	**110**	**230**	**446**	---	5
12/5/2005		88.48	7.44	**3,900**	**70**	**81**	**87**	**156**	---	--
3/16/2006		88.61	7.31	**2,600**	**23**	**26**	**36**	**30**	ND<3.0	--

TABLE 3: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	FOOT NOTES
MW-104*	(SCREENED 5-17 FEET BGS)									
6/4/2001	96.19	86.25	9.94	17,000	260	320	40	1,510	ND<300	2
9/4/2001		82.52	13.67	9,800	120	ND<200	330	546	ND<400	2
12/3/2001		90.04	6.15	33,000	870	520	1,600	4,650	ND<900	1,2
3/1/2002		88.84	7.35	20,000	400	450	930	2,480	ND<650	2
6/5/2002		86.79	9.40	21,000	370	880	890	2,610	ND<600	2
9/3/2002		82.39	13.80	7,400	100	ND<200	270	361	ND<150	1,2
12/2/2002		83.18	13.01	13,000	260	210	630	1,191	ND<320	
3/3/2003		88.68	7.51	20,000	430	560	950	2,330	---	
6/2/2003		88.26	7.93	26,000	540	1,100	1,300	3,630	ND<600	6
9/11/2003		---	---	---	---	---	---	---	---	
12/1/2003		88.83	7.36	25,000	760	520	1,300	2,700	---	5
3/3/2004		89.43	6.76	21,000	400	460	1,000	2,010	---	
6/1/2004		88.14	8.05	26,000	500	680	1,200	2,420	---	
9/2/2004		82.90	13.29	3,700	55	49	140	168	---	5
12/1/2004		88.18	8.01	16,000	430	480	990	2,090	---	4, 5
3/1/2005		88.68	7.51	17,000	200	350	590	1,280	---	5
6/1/2005		88.47	7.72	13,000	130	230	490	1,010	---	--
9/1/2005		83.51	12.68	8,300	63	88	270	519	---	5
12/5/2005		89.40	6.79	10,000	59	100	580	553	---	--
3/16/2006		89.39	6.80	7,400	43	75	130	267	ND<160	--
MW-105*	(SCREENED 5-15 FEET BGS)									
6/4/2001	95.33	84.76	10.57	430	ND<0.5	ND<7.0	ND<1.2	ND<0.5	ND<3.0	1,2
9/4/2001		81.48	13.85	650	ND<4.0	ND<9.0	ND<1.5	ND<1.2	ND<13	1,2
12/3/2001		88.49	6.84	4,700	11	ND<40	18	9	ND<100	1,2,4
3/1/2002		87.64	7.69	260	1.7	ND<6.0	ND<0.50	ND<0.50	ND<6.0	1,2
6/5/2002		85.32	10.01	140	ND<0.50	ND<3.0	ND<0.50	ND<0.50	ND<3.0	1,2
9/3/2002		81.42	13.91	360	ND<0.50	ND<10	ND<1.0	ND<1.0	ND<3.0	1,2
12/2/2002		81.94	13.39	680	6.0	ND<11	2.1	0.82	ND<13	
3/3/2003		87.58	7.75	280	ND<1.5	ND<5.5	ND<1.0	ND<1.0	---	
6/2/2003		87.16	8.17	210	ND<0.50	ND<5.5	ND<0.50	ND<0.50	ND<3.0	2, 5
9/11/2003		---	---	---	---	---	---	---	---	
12/1/2003		87.57	7.76	1,500	ND<5.0	ND<40	3.8	1.60	---	2, 8
3/3/2004		87.98	7.35	390	ND<2.0	ND<17	0.93	0.53	---	
6/1/2004		86.89	8.44	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
9/2/2004		81.72	13.61	210	ND<0.50	ND<9.0	ND<0.50	ND<0.50	---	2, 8
12/1/2004		87.18	8.15	590	ND<2.0	ND<18	1.3	0.73	---	2, 6, 8
3/1/2005		87.57	7.76	680	ND<2.5	ND<30	ND<2.0	ND<1.5	---	2, 6, 8
6/1/2005		87.39	7.94	510	1.7	9.8	0.50	0.57	---	--
9/1/2005		82.28	13.05	470	8.2	ND<15	3.6	2.15	---	6,11
12/5/2005		88.02	7.31	2,600	7.2	ND<70	8.3	4.6	---	--
3/16/2006		88.16	7.17	1,800	3.5	ND<60	6.7	3.3	ND<15	--

TABLE 3: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

	Groundwater Measurements			Analytical Results						
WELL/ Sample Date	Well Head Elevation (feet NAVD-88)	Hydraulic Head (feet NAVD-88)	Depth to Water (feet)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	FOOT NOTES
MW-106*	(SCREENED 5-15 FEET BGS)									
3/1/2001	92.88	86.97	5.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
6/4/2001		84.43	8.45	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
9/4/2001		80.96	11.92	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
12/3/2001		87.92	4.96	ND<50	ND<0.5	ND<1.5	ND<0.5	ND<0.5	ND<3.0	2
3/1/2002		87.29	5.59	ND<50	**0.74**	ND<0.50	ND<0.50	ND<0.50	ND<3.0	
6/5/2002		84.97	7.91	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
9/3/2002		80.89	11.99	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
12/2/2002		81.45	11.43	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
3/3/2003		87.24	5.64	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<3.0	
6/2/2003		86.84	6.04	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<3.0	
9/11/2003		---	---	---	---	---	---	---	---	
12/1/2003		87.17	5.71	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	9
3/3/2004		87.64	5.24	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
6/1/2004		86.61	6.27	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
9/2/2004		81.23	11.65	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
12/1/2004		86.90	5.98	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	
3/1/2005		87.26	5.62	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	12
6/1/2005		87.09	5.79	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	--
9/1/2005		81.85	11.03	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	---	--
12/5/2005		87.74	5.14	**110**	**4.4**	**3.7**	**1.6**	**1.1**	---	
3/16/2006		87.83	5.05	ND<50	**0.85**	**0.58**	ND<0.50	ND<0.50	ND<3.0	--
OBS-1	(SCREENED 5-10 FEET BGS)									
	89.45	82.49	6.96	---	---	---	---	---	---	---
OBS-2	(SCREENED 5-10 FEET BGS)									
	91.29	83.78	7.51	---	---	---	---	---	---	---

Reference NAVD 88. Elevations established 7/29/02 by R. Smith, LS using Caltrans HPGN monument "D CA 01 RB" North Arcata at Giuntoli & Hwy 101

* Hydraulic head data and laboratory analytical results are provided by SHN.

Bold indicates analyte detection

A key to abbreviations is provided as Attachment 2.

Attachment 1

ATTACHMENT 1 : KEY TO ABBREVIATIONS
Blue Lake Market, 410 Railroad Avenue, Blue Lake, CA
LOP No. 12229; LACO Project No. 3888.02

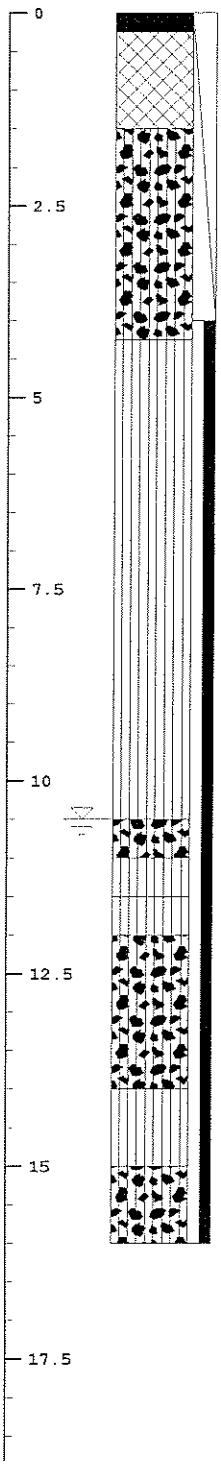
KEY TO ABBREVIATIONS		
AL	--	action limit; a non-enforceable California drinking water standard; shown in parentheses.
BTEX	--	Benzene; Toluene; Ethylbenzene; m,p- and o- Xylenes
CO_2	--	Carbon dioxide
COC	--	Chain of custody
CRWQCB	--	California Regional Water Quality Control Board
DHP	--	Down-hole-pump (submersible pump)
DIPE	--	Di-isopropyl Ether
DO	--	Dissolved Oxygen
DTW	--	Depth-to-Water
ECw	--	Electrical Conductivity in water
ETBE	--	Ethyl Tertiary Butyl Ether
FP	--	Free Product
MCL	--	Maximum contaminant level, an enforceable California drinking water standard.
MTBE	--	Methyl Tertiary Butyl Ether
ND<50	--	non-detect at reporting limits shown
NOT ACTIVE	--	Sample not analyzed for parameter during current sampling event
ORP	--	Oxidation Reduction Potential
PCE	--	Perchloroethene same as tetrachloroethene
pH	--	Potential of hydrogen
SGC	--	Silica gel cleanup
T	--	Temperature
TAME	--	Tertiary Amyl Methyl Ether
TBA	--	Tetiary Butyl Alcohol
TBF	--	Tertiary Butyl Formate
Tot	--	Taste and odor threshold, a non-enforceable California drinking water standard.
TPHg	--	Total Petroleum Hydrocarbons as Gasoline
µg/L	--	Micro grams per liter (parts per billion)
---	--	Not analyzed or not available

Attachment 2

ENVIRONMENTAL BORING LOG

Boring No. B15

PROJECT: BLUE LAKE MARKET
PROJECT NO.: 3888.02
BORING LOCATION: APPROX. 10 FEET NE OF MW2
DATE: 3/28/06
DRILLING METHOD: DIRECT PUSH
ELEVATION: APPROX. 95 FEET MSL
DRILLER: LACO
LOGGED BY:
DEPTH TO WATER: **INITIAL** ▽ : 10.5 **COMPLETION** ▼ : NA
SITE GEOLOGY: UPLIFTED FLUVIAL AND FLOODPLAIN DEPOSITS



ELEVATION/ DEPTH	SOIL SYMBOLS, SAMPLERS AND TEST DATA	USCS	Description	P.I.D. ppm	Hanby result
		FILL	ASPHALT AGGREGATE BASE		
		GM	SILTY GRAVEL WITH SAND; Dark Brown, loose, moist; Approximately 35% poorly graded fine sand, 35% poorly graded fine and medium gravel, 30% silt; No petroleum hydrocarbon odor.		
		ML	SILT WITH SAND; Dark brown, low plasticity, firm, moist; Approximately 75% silt, 10% clay, 15% poorly graded fine sand		
		GM	SILTY GRAVEL WITH SAND; Gray, loose, wet to saturated; Approximately 60% poorly graded fine and medium gravel, 25% poorly graded fine sand, 15% silt; No petroleum hydrocarbon odor.	0	
		ML	SILT; Dark brown, medium to high plasticity, stiff to hard, moist; Approximately 50% silt, 40% clay, 10% poorly graded fine sand; No petroleum hydrocarbon odor.		
		ML	SILT WITH SAND; Dark brown, medium plasticity, stiff, moist; Approximately 60% silt, 15% clay, 25% poorly graded fine sand; No petroleum hydrocarbon odor.		
		GM	SILTY GRAVEL WITH SAND; Dark gray, loose, wet to saturated; Approximately 60% poorly graded fine and medium gravel, 25% poorly graded fine sand, 15% silt; No petroleum hydrocarbon odor.	0	
			SILT; Dark brown, medium to high plasticity, stiff to firm, moist; Approximately 50% silt, 40% clay, 10% poorly graded fine sand; No petroleum hydrocarbon odor.		
			SILTY GRAVEL WITH SAND; Dark brown, loose, wet to saturated; Approximately 60% well graded fine, medium, and coarse gravel, 25% poorly graded fine and medium sand, 15% silt; No petroleum hydrocarbon odor.		
			HALT AT 16 FEET BGS		

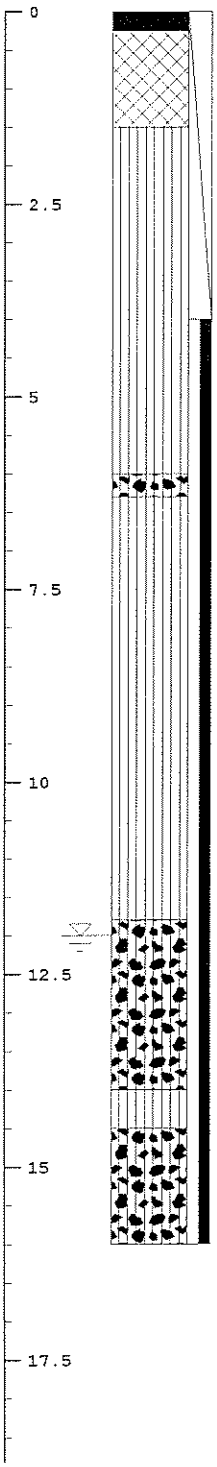
Hand auger advanced to 4 feet bgs for utility clearance. Soil samples collected at 4.25, 8.0, 10.5, 13.0, and 16.0 feet bgs. Groundwater grab sample collected.

Figure _____

ENVIRONMENTAL BORING LOG

Boring No. B16

PROJECT: BLUE LAKE MARKET
PROJECT NO.: 3888.02
BORING LOCATION: APPROX. 15 FEET SE OF B15
DATE: 3/28/06
DRILLING METHOD: DIRECT PUSH
ELEVATION: APPROX. 95 FEET MSL
DRILLER: LACO
LOGGED BY:
DEPTH TO WATER: **INITIAL** ▽ : 12.0 **COMPLETION** ▼ :
SITE GEOLOGY: UPLIFTED FLUVIAL AND FLOODPLAIN DEPOSITS



ELEVATION/ DEPTH	SOIL SYMBOLS, SAMPLERS AND TEST DATA	USCS	Description	P.I.D. ppm	Hanby result
		FILL	ASPHALT AGGREGATE BASE		
		ML	SILT WITH SAND; Dark brown, low plasticity, soft, moist; Approximately 75% silt, 5% clay, 20% poorly graded fine sand; No petroleum hydrocarbon odor.		
		GM ML	SILTY GRAVEL WITH SAND; Dark brown, loose, moist; Approximately 60% poorly graded fine and medium gravel, 20% poorly graded fine sand, 20% silt; No petroleum hydrocarbon odor. SILT; Dark brown, medium plasticity, stiff, moist; Approximatley 50% silt, 40% clay, 10% poorly graded fine sand; No petroleum hydrocarbon odor.	0	
		GM	SILTY GRAVEL WITH SAND; Dark gray, loose, wet to saturated; Approximately 60% well graded fine, medium, and coarse gravel, 25% well graded fine, medium, and coarse sand, 15% silt; Strong petroleum hydrocarbon odor.	0	
		ML GM	SILT; Dark brown, medium to high plasticity, stiff to hard, moist; Approximately 50% silt, 40% clay, 10% poorly graded fine sand; Moderate petroleum hydrocarbon odor. SILTY GRAVEL WITH SAND; Dark gray, loose, wet to saturated; Approximately 60% well graded fine, medium, and coarse gravel, 25% well graded fine, medium, and coarse sand, 15% silt; Strong petroleum hydrocarbon odor. HALT AT 16.0 FEET BGS	0	

Hand auger advanced to 4 feet bgs for utility clearance. Soil samples collected at 4.0, 8.0, 12.0, and 16.0 feet bgs. Groundwater grab sample collected.

Figure _____

MONITORING WELL LOG

Well No. MW6

PROJECT: BLUE LAKE MARKET
PROJECT NO.: 3888.02
BORING LOCATION: 37 FEET SOUTH OF MW4
DATE: 3/28/06
DRILLING METHOD: DIRECT PUSH
ELEVATION: APPROX. 85 FEET NAVD
DRILLER: LACO ASSOCIATES
LOGGED BY:
DEPTH TO WATER: INITIAL ▽ : 12.0 **COMPLETION** ▼ : N/A
SITE GEOLOGY: UPLIFTED FLUVIAL AND FLOODPLAIN DEPOSITS
WELL CASING: 1.5-INCH
WELL SCREEN AND INTERVAL: 0.010 SLOT, 10'-15' BGS
SEAL AND INTERVAL: CEMENT, 0'-9' BGS
SAND PACK AND INTERVAL: #2/16 SAND, 9'-15' BGS

ELEVATION/ DEPTH	SOIL SYMBOLS, SAMPLERS AND TEST DATA	USCS	Description	P.I.D ppm	Hanby Result	Well Construction Diagram
0		FILL	ASPHALT AGGREGATE BASE			
2.5		GM	SILTY GRAVEL; Dark brown, loose, moist; Approximately 55% poorly graded fine and medium gravel, 10% poorly graded fine sand, 30% silt, 5% clay; No petroleum hydrocarbon odor.			
5		GM	SILTY GRAVEL; Dark brown, loose, moist to wet; Approximately 40% well graded fine, medium, and coarse gravel, 10% poorly graded fine sand, 40% silt, 10% clay; No petroleum hydrocarbon odor.	0		
7.5						
10						
12.5		SP-SM GP-GM SM	POORLY GRADED SAND WITH SILT; Yellow brown, loose, moist; Approximately 90% poorly graded fine sand, 10% silt; No petroleum hydrocarbon odor.	0		
		GW-GM	POORLY GRADED GRAVEL WITH SILT AND SAND; Dark gray, loose, wet to saturated; Approximately 65% poorly graded fine and medium gravel, 25% poorly graded fine and medium sand, 10% silt; No petroleum hydrocarbon odor.	168		
15			SILTY SAND; Dark gray, loose, saturated; Approximately 85% poorly graded fine and medium sand, 15% silt; Petroleum hydrocarbon odor. WELL GRADED GRAVEL WITH SILT AND SAND; Dark gray, loose, saturated; Approximately 75% well graded fine, medium, and coarse gravel, 15% poorly graded fine and medium sand, 10% silt; Petroleum hydrocarbon odor. HALT AT 15 FEET BGS.			
17.5						

Hand auger advanced to 4 feet bgs for utility clearance. Soil samples collected at 8ft and 15ft bgs.

Figure _____

Attachment 3

LACO ASSOCIATES
ENGINEERS / GEOLOGISTS / ENVIRONMENTAL CONSULTANTS
21 W. 4th Street
Eureka, California 95501
Phone 707-443-5054
800-515-5054
Fax 707-443-0553

PROJECT Well Development	BY JLS	SHEET NO. 1 of 2
LOCATION Blue Lake	DATE 4/3/6	
CLIENT P. Folkins	CHECKED	JOB NO. 388802 /202
	DATE 4/3	

10:45 setting up on MW #6

11:15 surged with solid block for 5 min, than with check ball for 10 min surged out 5 gallons of water starting to pump with DHP

12:45 water comming out clear with a turbidity of 8.3 NTU's Pumped a total of 50 gallons of water Well Developed, deconing + loading to leave site

1:00 off - site

LACO ASSOCIATES
P.O. Box 1023 • Eureka, California 95502 • 707.443.5054

WELL DEVELOPMENT RECORD

SHEET 2 of 2

Project Name: Blue Lake Market
Project No.: 3888.02/202
Well ID: MW#6
Date Installed:
Contractor: Laco
Development Contractor: Laco
Casing Diameter: 1.5"

METHOD OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☒ Pumping ☐ Describe

Equipment decontaminated prior to development ☒ Yes ☐ No

Describe

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION

Measured Well Depth (B) 14.32 ft.

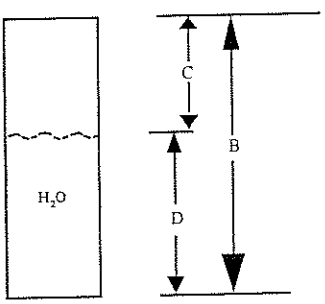
Measured Water Level Depth (C) 7.95 ft.

Length of Static Water Column (D) 14.32 (B) - 7.95 (C) = 6.37 ft.

Casing Water Volume 0.09 (A) x 6.37 (D) = 0.5733 gal

Volume of Water Added to Well During Installation = Ø gal

Total Purge Volume = 50 (gal)



Time	Pump Rate	Water Level Depth (ft)	Volume Removed (gal)	pH	Cond (mS/cm)	Temperature F or C	Turbidity (NTU)	Comments
11:15	.5	8.20	5				>100	Silty
11:30	.5	8.19	7.5				>100	Silty
11:45	.5	8.22	7.5				>100	Turbid
12:00	.5	8.21	7.5				>100	Turbid
12:15	.5	8.22	7.5				68	Turbid
12:30	.5	8.21	7.5				29	Slightly Turbid
12:45	.5	8.21	7.5				8.3	Clear

Developer Signature: [signature] Date: 4/3/06

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.: 3888.02
Date: 4-4-06
Golbal ID No.: T0602300170
PM: CSM

Tech: RLD
Mob/Demob time: .25/.25
Travel time: 1.0
Time on site: 11:15
Time off site: 12:45
Mileage: 34

WELL No.:	MW1		MW2		MW4		MW5		MW6	
DIAMETER (in)	2.0		2.0		1.5		1.5		1.5	
SCREENED INTERVAL (ft)	5-15		4-14		10-15		10-15		5-15	
DEPTH TO WATER (ft)	—		—		—		—		8.04	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
FIELD INTRINSICS: TEMP (°C)										
FIELD INTRINSICS: Ecw (µmohs)										
FIELD INTRINSICS: ORP (mV)									89	94
FIELD INTRINSICS: DO (mg/L)									4.16	2.16
FIELD INTRINSICS: OTHER (units)									—	
PURGE: TIME									11:17	11:25
PURGE: METHOD (DHP/CB/B)									DHP	
PURGE: RATE (Lpm)									0.25	
PURGE: VOLUME (L)									2.0	
PURGE: COLOR									CLOUDY CLEAR	TANISH BROWN
PURGE: ODOR									NONE	
PURGE: INTAKE DEPTH (FEET)									10.0	
SAMPLE: TIME									11:27	
SAMPLE: METHOD (DHP/CB/B)									DHP	
SAMPLE: ANALYTES	TPHg/BTEX/MTBE		TPHg/BTEX/MTBE		TPHg/BTEX/MTBE		TPHg/BTEX/MTBE		TPHg/BTEX/MTBE	
SAMPLE: TOTAL DRAWDOWN (FEET)									0.02	
SAMPLE: REMARKS									TRIED TO GET BIT OUT OF WELL. UNSUCCESSFUL	
WELL CONDITION	—		—		—		—		GOOD	
WASTE DRUMS	4 DOT DRUMS ONSITE 2 - PURGE WATER 2 - SOIL									

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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

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.: **3888.02**
Date:
Golbal ID No.: **T0602300170**
PM: **CSM**

Tech: **RLD**
Mob/Demob time: 25/25
Travel time: 1.0
Time on site: 11:15
Time off site: 12:45
Mileage: 34

WELL No.:	MW3				
DIAMETER (in)	2.0				
SCREENED INTERVAL (ft)	5-15				
DEPTH TO WATER (ft)					

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

		INITIAL	FINAL								
FIELD INTRINSICS	pH										
	TEMP (°C)										
	Ecw (µmohs)										
	ORP (mV)										
	DO (mg/L)										
	OTHER (units)										
PURGE	TIME										
	METHOD (DHP/CB/B)										
	RATE (Lpm)										
	VOLUME (L)										
	COLOR										
	ODOR										
	INTAKE DEPTH (FEET)										
SAMPLE	TIME										
	METHOD (DHP/CB/B)										
	ANALYTES	MEASURE ONLY									
	TOTAL DRAWDOWN (FEET)										
	REMARKS										
WELL CONDITION											
WASTE DRUMS											

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

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.: 3888.02

Tech: RLD
Date: 4-4-06

WELL ID:	METER ACCURACY RANGE				
MW6	+/- 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)
11:19	—	—	—	89	3.03
11:21	—	—	—	90	2.87
11:23	—	—	—	93	2.50
11:25	—	—	—	94	2.16

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)

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.: 3888.02

Tech: RLD

Date: 4-4-06

WELL ID: MW6		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
11:00	8.04										
11:10	8.04										

WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)

WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)

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: PAT FOLKINS
Results & Invoice to:
Address: 2020 ARDAGH COURT
EUREKA, CA 95503
Phone:
Copies of Report to: Christine Manhart-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: 3888.02
Project Name: BLUE LAKE MARKET
Purchase Order Number: task 3035

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	CONTAINER	PRESERVATIVE	ANALYSIS: TPHg/BTEX/MTBE
		4-4-06	AM	GW		b	
	3888-MW6-W				9		3
	3888-QCTB-W						1

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

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

Attachment 4

NORTH COAST LABORATORIES LTD.

RECEIVED
LACO ASSOCIATES
APR 19 2006
BY: VG

April 18, 2006

Pvt. cust. paying on pickup

CJW

Order No.: 0603778
Invoice No.: 57651
PO No.: 203
ELAP No. 1247-Expires July 2006

Attn: Pat Folkins

RE: 3888.02 Blue Lake Market

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	3888-B15-S4.25
02A	3888-B15-S8.0
03A	3888-B15-S10.5
04A	3888-B15-S13.0
05A	3888-B15-S16.0
06A	3888-B16-S4.0
07A	3888-B16-S8.0
08A	3888-B16-S12.0
09A	3888-B16-S16.0
10A	3888-MW6-S8.0
11A	3888-MW6-S15.0
12A	3888-B15-GW
13A	3888-B16-GW

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

Colleen Blackstone T. Shea

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

CASE NARRATIVE

BTEX - Soil:
All of the samples were extracted within the 14 day holding time. Due to problems with the analytical instrument, the sample extracts were analyzed 5 days past the holding time. The recoveries for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) that were extracted with the samples were within the acceptance limits; therefore, the data were accepted.

Some reporting limits were raised for samples 3888-B15-S10.5, 3888-B15-S13.0, 3888-B16-S12.0 and 3888-B16-S16.0 due to matrix interference.

Sample 3888-MW6-S15.0 was diluted and some reporting limits were raised additionally due to matrix interference.

TPH as Gasoline - Soil:
All of the samples were extracted within the 14 day holding time. Due to problems with the analytical instrument, the sample extracts were analyzed 5 days past the holding time. The recoveries for the LCS/LCSD that were extracted with the samples were within the acceptance limits; therefore, the data were accepted.

Samples 3888-B15-S10.5 and 3888-MW6-S15.0 do not present a peak pattern consistent with that of gasoline. The reported results represent the amount of material in the gasoline range.

The gasoline value for sample 3888-B16-S12.0 includes the reported gasoline components and additives in addition to other peaks in the gasoline range.

The gasoline values for samples 3888-B15-S13.0 and 3888-B16-S16.0 include the reported gasoline components in addition to other peaks in the gasoline range.

BTEX - Water:
Some reporting limits were raised for sample 3888-B16-GW due to matrix interference.

Sample 3888-B16-GW was diluted and the reporting limit for toluene was raised additionally due to matrix interference.

The LCSD recoveries were below the lower acceptance limits for most analytes. The response of the reporting limit standard was such that the analytes would have been detected even with the low recoveries; therefore, the data were accepted.

The relative percent difference (RPD) for the laboratory control samples was above the acceptance limit for MTBE. This indicates that the results could be variable. Since there were no detectable levels of

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the analyte in the samples, the data were accepted.

TPH as Gasoline - Water:
Sample 3888-B16-GW does not present a peak pattern consistent with that of gasoline. The reported result represents the amount of material in the gasoline range.

The LCS/LCSD recoveries were below the lower acceptance limit for gasoline. The response of the reporting limit standard was such that the analyte would have been detected even with the low recoveries; therefore, the data were accepted.

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Date: 18-Apr-06
WorkOrder: 0603778

ANALYTICAL REPORT

Client Sample ID: 3888-B15-S4.25 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-01A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	0.0056	0.0050	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	92.1	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	4/11/06	4/16/06

Client Sample ID: 3888-B15-S8.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-02A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	0.0054	0.0050	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	92.5	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	4/11/06	4/16/06

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Date: 18-Apr-06
WorkOrder: 0603778

ANALYTICAL REPORT

Client Sample ID: 3888-B15-S10.5 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-03A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	ND	0.040	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	ND	0.040	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	ND	0.040	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.030	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	93.6	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	4.6	1.0	µg/g	1.0	4/11/06	4/16/06

Client Sample ID: 3888-B15-S13.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-04A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	ND	0.010	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	0.0069	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	96.8	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1.3	1.0	µg/g	1.0	4/11/06	4/16/06

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Date: 18-Apr-06
WorkOrder: 0603778

ANALYTICAL REPORT

Client Sample ID: 3888-B15-S16.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-05A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	92.3	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	4/11/06	4/16/06

Client Sample ID: 3888-B16-S4.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-06A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	92.5	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	4/11/06	4/16/06

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ANALYTICAL REPORT

Client Sample ID: 3888-B16-S8.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-07A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	87.7	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	4/11/06	4/16/06

Client Sample ID: 3888-B16-S12.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-08A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	0.051	0.010	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.030	µg/g	1.0	4/11/06	4/16/06
Toluene	ND	0.20	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	0.049	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	0.11	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	0.028	0.0050	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	120	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	15	1.0	µg/g	1.0	4/11/06	4/16/06

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Date: 18-Apr-06
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ANALYTICAL REPORT

Client Sample ID: 3888-B16-S16.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-09A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	ND	0.040	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	0.0056	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	0.014	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.010	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	94.3	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1.3	1.0	µg/g	1.0	4/11/06	4/16/06

Client Sample ID: 3888-MW6-S8.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-10A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	0.0071	0.0050	µg/g	1.0	4/11/06	4/16/06
Ethylbenzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
m,p-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
o-Xylene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	94.5	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	ND	1.0	µg/g	1.0	4/11/06	4/16/06

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Date: 18-Apr-06
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ANALYTICAL REPORT

Client Sample ID: 3888-MW6-S15.0 **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-11A

Test Name: BTEX **Reference:** EPA 5035/EPA 8021B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	0.050	µg/g	1.0	4/11/06	4/16/06
Benzene	ND	0.0050	µg/g	1.0	4/11/06	4/16/06
Toluene	ND	1.0	µg/g	10	4/11/06	4/16/06
Ethylbenzene	ND	0.30	µg/g	10	4/11/06	4/16/06
m,p-Xylene	ND	0.40	µg/g	10	4/11/06	4/16/06
o-Xylene	ND	0.60	µg/g	10	4/11/06	4/16/06
Surrogate: Cis-1,2-Dichloroethylene	97.6	71.8-135	% Rec	1.0	4/11/06	4/16/06

Test Name: TPH as Gasoline **Reference:** EPA 5035/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	54	10	µg/g	10	4/11/06	4/16/06

Client Sample ID: 3888-B15-GW **Received:** 3/30/06 **Collected:** 3/28/06 0:00
Lab ID: 0603778-12A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	3.0	µg/L	1.0		4/8/06
Benzene	ND	0.50	µg/L	1.0		4/8/06
Toluene	ND	0.50	µg/L	1.0		4/8/06
Ethylbenzene	ND	0.50	µg/L	1.0		4/8/06
m,p-Xylene	ND	0.50	µg/L	1.0		4/8/06
o-Xylene	ND	0.50	µg/L	1.0		4/8/06
Surrogate: Cis-1,2-Dichloroethylene	90.2	85-115	% Rec	1.0		4/8/06

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		4/8/06

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Date: 18-Apr-06
WorkOrder: 0603778

ANALYTICAL REPORT

Client Sample ID: 3888-B16-GW
Lab ID: 0603778-13A

Received: 3/30/06 Collected: 3/28/06 0:00

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
MTBE	ND	10	µg/L	1.0		4/8/06
Benzene	ND	5.0	µg/L	1.0		4/8/06
Toluene	ND	40	µg/L	20		4/8/06
Ethylbenzene	ND	10	µg/L	1.0		4/8/06
m,p-Xylene	ND	6.0	µg/L	1.0		4/8/06
o-Xylene	ND	4.0	µg/L	1.0		4/8/06
Surrogate: Cis-1,2-Dichloroethylene	114	85-115	% Rec	1.0		4/8/06

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gas (C6-C14)	1,900	1,000	µg/L	20		4/8/06

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Date: 18-Apr-06

CLIENT: Pvt. cust. paying on pickup
Work Order: 0603778
Project: 3888.02 Blue Lake Market

QC SUMMARY REPORT

Method Blank

Sample ID **MB-15502** Batch ID: **15502** Test Code: **BTXES** Units: **µg/g** Analysis Date **4/16/06 2:52:22 AM** Prep Date **4/11/06**
Client ID: Run ID: **ORGC8_060415C** SeqNo: **586373**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	ND	0.050									
Benzene	ND	0.0050									
Toluene	ND	0.0050									
Ethylbenzene	ND	0.0050									
m,p-Xylene	ND	0.0050									
o-Xylene	ND	0.0050									
Cis-1,2-Dichloroethylene	0.923	0.10	1.00	0	92.3%	72	135	0			

Sample ID **MB-4/7/06** Batch ID: **R40722** Test Code: **BTXEW** Units: **µg/L** Analysis Date **4/7/06 6:42:09 PM** Prep Date
Client ID: Run ID: **ORGC8_060407B** SeqNo: **584944**

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	0.1530	0.50									J
Ethylbenzene	0.1003	0.50									J
m,p-Xylene	0.2549	0.50									J
o-Xylene	0.09677	0.50									J
Cis-1,2-Dichloroethylene	0.938	0.10	1.00	0	93.8%	85	115	0			

Sample ID **MB-15502** Batch ID: **15502** Test Code: **TPHCGS** Units: **µg/g** Analysis Date **4/16/06 2:52:22 AM** Prep Date **4/11/06**
Client ID: Run ID: **ORGC8_060415B** SeqNo: **586323**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	0.2912	1.0									J

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: 0603778
Project: 3888.02 Blue Lake Market

QC SUMMARY REPORT

Method Blank

Sample ID **MB-4/7/06** Batch ID: **R40704** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **4/7/06 6:42:09 PM** Prep Date

Client ID: Run ID: **ORGC8_060407A** SeqNo: **584751**

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: 18-Apr-06

CLIENT: Pvt. cust. paying on pickup
Work Order: 0603778
Project: 3888.02 Blue Lake Market

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-15502** Batch ID: **15502** Test Code: **BTXES** Units: **µg/g** Analysis Date **4/16/06 12:02:19 AM** Prep Date **4/11/06**
Client ID: Run ID: **ORGC8_060415C** SeqNo: **586371**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.3325	0.050	0.400	0	83.1%	75	124	0			
Benzene	0.04790	0.0050	0.0500	0	95.8%	80	128	0			
Toluene	0.05047	0.0050	0.0500	0	101%	85	126	0			
Ethylbenzene	0.04937	0.0050	0.0500	0	98.7%	80	126	0			
m,p-Xylene	0.09495	0.0050	0.100	0	94.9%	84	130	0			
o-Xylene	0.04712	0.0050	0.0500	0	94.2%	84	125	0			
Cis-1,2-Dichloroethylene	1.04	0.10	1.00	0	104%	72	135	0			

Sample ID **LCSD-15502** Batch ID: **15502** Test Code: **BTXES** Units: **µg/g** Analysis Date **4/16/06 12:36:22 AM** Prep Date **4/11/06**
Client ID: Run ID: **ORGC8_060415C** SeqNo: **586372**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	0.3282	0.050	0.400	0	82.0%	75	124	0.332	1.30%	15	
Benzene	0.04803	0.0050	0.0500	0	96.1%	80	128	0.0479	0.271%	15	
Toluene	0.04983	0.0050	0.0500	0	99.7%	85	126	0.0505	1.27%	15	
Ethylbenzene	0.04937	0.0050	0.0500	0	98.7%	80	126	0.0494	0.00284%	15	
m,p-Xylene	0.09362	0.0050	0.100	0	93.6%	84	130	0.0950	1.41%	15	
o-Xylene	0.04668	0.0050	0.0500	0	93.4%	84	125	0.0471	0.925%	15	
Cis-1,2-Dichloroethylene	1.04	0.10	1.00	0	105%	72	135	1.04	0.167%	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

CLIENT: Pvt. cust. paying on pickup
Work Order: 0603778
Project: 3888.02 Blue Lake Market

QC SUMMARY REPORT
Laboratory Control Spike

Sample ID **LCS-06213** Batch ID: **R40722** Test Code: **BTXEW** Units: **µg/L** Analysis Date **4/7/06 3:47:18 PM** Prep Date
Client ID: Run ID: **ORGC8_060407B** SeqNo: **584942**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	43.14	3.0	40.0	0	108%	85	115	0			
Benzene	4.553	0.50	5.00	0	91.1%	85	115	0			
Toluene	4.680	0.50	5.00	0	93.6%	85	115	0			
Ethylbenzene	4.449	0.50	5.00	0	89.0%	85	115	0			
m,p-Xylene	8.938	0.50	10.0	0	89.4%	85	115	0			
o-Xylene	4.546	0.50	5.00	0	90.9%	85	115	0			
Cis-1,2-Dichloroethylene	1.12	0.10	1.00	0	112%	85	115	0			

Sample ID **LCSD-06213** Batch ID: **R40722** Test Code: **BTXEW** Units: **µg/L** Analysis Date **4/7/06 11:53:43 PM** Prep Date
Client ID: Run ID: **ORGC8_060407B** SeqNo: **584953**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MTBE	35.23	3.0	40.0	0	88.1%	85	115	43.1	20.2%	15	R
Benzene	4.207	0.50	5.00	0	84.1%	85	115	4.55	7.91%	15	S
Toluene	4.121	0.50	5.00	0	82.4%	85	115	4.68	12.7%	15	S
Ethylbenzene	3.991	0.50	5.00	0	79.8%	85	115	4.45	10.9%	15	S
m,p-Xylene	7.824	0.50	10.0	0	78.2%	85	115	8.94	13.3%	15	S
o-Xylene	4.009	0.50	5.00	0	80.2%	85	115	4.55	12.5%	15	S
Cis-1,2-Dichloroethylene	1.06	0.10	1.00	0	106%	85	115	1.12	4.94%	15	

Sample ID **LCS-15502-G** Batch ID: **15502** Test Code: **TPHCGS** Units: **µg/g** Analysis Date **4/16/06 1:10:26 AM** Prep Date **4/11/06**
Client ID: Run ID: **ORGC8_060415B** SeqNo: **586321**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	11.25	1.0	10.0	0	112%	102	128	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: 0603778
Project: 3888.02 Blue Lake Market

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-15502-G** Batch ID: **15502** Test Code: **TPHCGS** Units: **µg/g** Analysis Date **4/16/06 1:44:24 AM** Prep Date **4/11/06**
Client ID: Run ID: **ORGC8_060415B** SeqNo: **586322**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	11.38	1.0	10.0	0	114%	102	128	11.2	1.16%	15	

Sample ID **LCS-06214** Batch ID: **R40704** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **4/7/06 4:57:30 PM** Prep Date
Client ID: Run ID: **ORGC8_060407A** SeqNo: **584749**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	396.7	50	500	0	79.3%	85	115	0			S

Sample ID **LCSD-06214** Batch ID: **R40704** Test Code: **TPHCGW** Units: **µg/L** Analysis Date **4/8/06 12:28:11 AM** Prep Date
Client ID: Run ID: **ORGC8_060407A** SeqNo: **584760**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gas (C6-C14)	402.8	50	500	0	80.6%	85	115	397	1.52%	15	S

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

#0603778

LABORATORY NUMBER:

Attention:
Results & Invoice to: Pat Folkins
Address: 2020 Ardagh Ct
Eureka, CA 95503
Phone:
Copies of Report to: LACO Associates - Chris Watt
Sampler (Sign & Print): [signature] Todd B. Becker

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: 3888.02
Project Name: Blue Lake Market
Purchase Order Number: 203

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHg/BTEX/MTBE	CONTAINER: TPHg/BTEX/MTBE	PRESERVATIVE
	3888-B15-S4.25	3/28/06	AM	S		9	b
	3888-B15-S8.0	↓	↓	S		13	–
	3888-B15-S10.5	↓	↓	S		–	
	3888-B15-S13.0	↓	↓	S		–	
	3888-B15-S16.0	↓	↓	S		–	
	3888-B15-GW	↓	↓	GW	M		
	3888-B16-S4.0	↓	↓	S		–	
	3888-B16-S8.0	↓	↓	S		–	
	3888-B16-S12.0	↓	↓	S		–	
	3888-B16-S16.0	↓	↓	S		–	

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

Geotracker - Please

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
[signature] Todd B. Becker	3/30/06 13:10	[signature] 3/30/06	1310

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

T0602300170

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: Pat Folkins
Results & Invoice to:
Address: 2020 Ardagh Ct.
Eureka, CA 95503
Phone:
Copies of Report to: LACO - Chris Watt
Sampler (Sign & Print): [signature] Todd B. Becker

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: 3888.02
Project Name: Blue Lake Market
Purchase Order Number: 203

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHg/BTEX/MTBE	CONTAINER: TPHg/BTEX/MTBE	PRESERVATIVE: TPHg/BTEX/MTBE
	3888-B16-GW	3/28/06	AM	GW	3	9	6
	3888-MW6-S8.0	↓	PM	S		1	1
	3888-MW6-S15.0	↓	↓	S		1	1

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

Geotracker Please

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
[signature] Todd B. Becker	3/30/06 13:10	[signature] 3/30/06 1300	

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

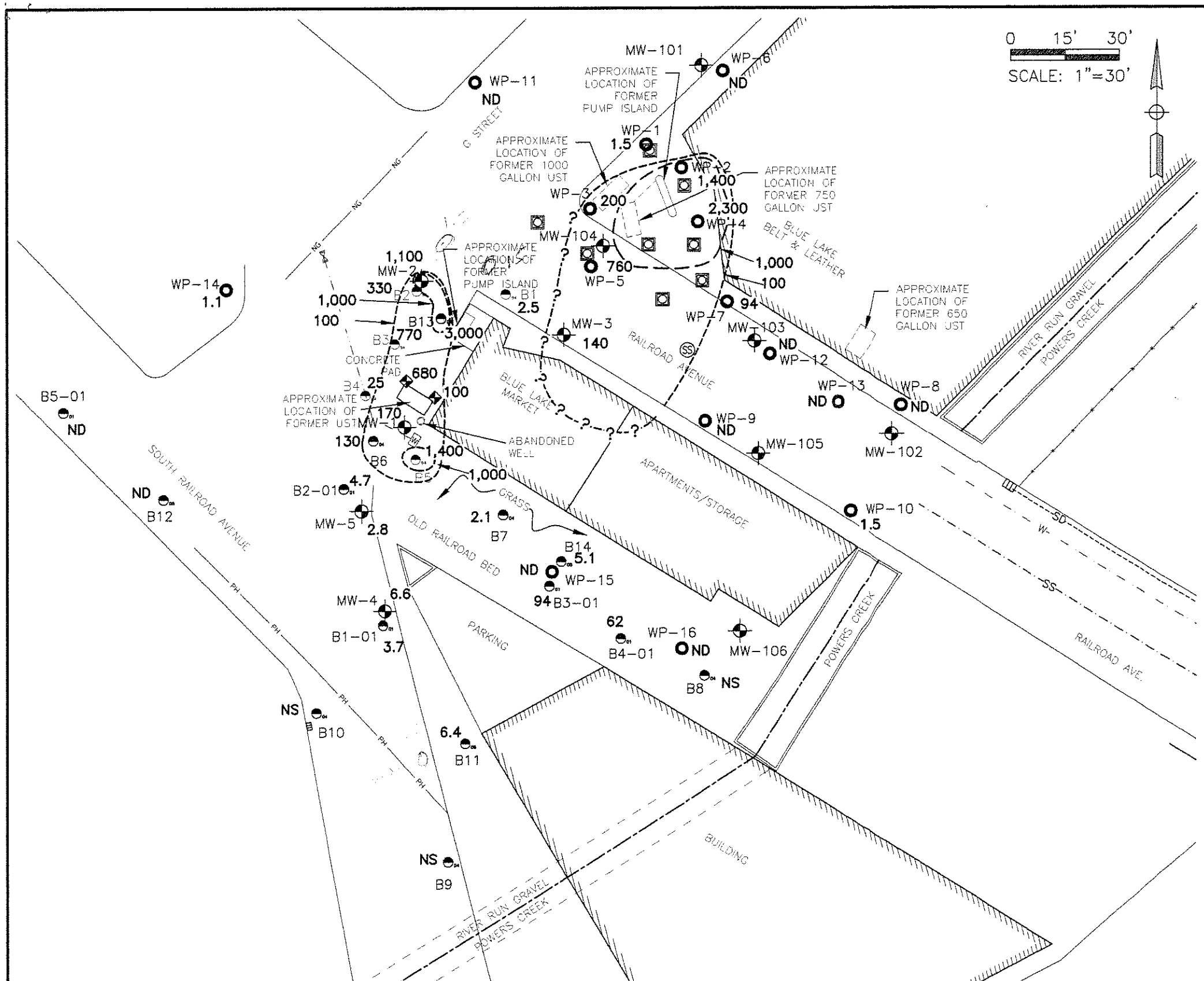
CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***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

T0602300170

Attachment 5



LEGEND

- MW-1 — LACO MONITORING WELL
- MW-106 — SHN MONITORING WELL
- WELL POINT (SHN 1998)
- BORING (LACO 1994)
- BORING (LACO 2001)
- BORING (LACO 2004)
- BORING (LACO 2005)
- SOIL SAMPLE LOCATIONS
- SHN OZONE SPARGE WELL
- 100 — TPHg ISOCONCENTRATION LINES

ALL RESULTS SHOWN ARE IN MICROGRAMS PER GRAM (µg/g)

THE RESULTS PRESENTED IN THIS FIGURE REPRESENT THE HIGHEST CONCENTRATIONS REPORTED FOR EACH BORING.

ND = NON-DETECT

NS = NOT SAMPLED

NOTE: DISTANCES ARE APPROXIMATE

NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

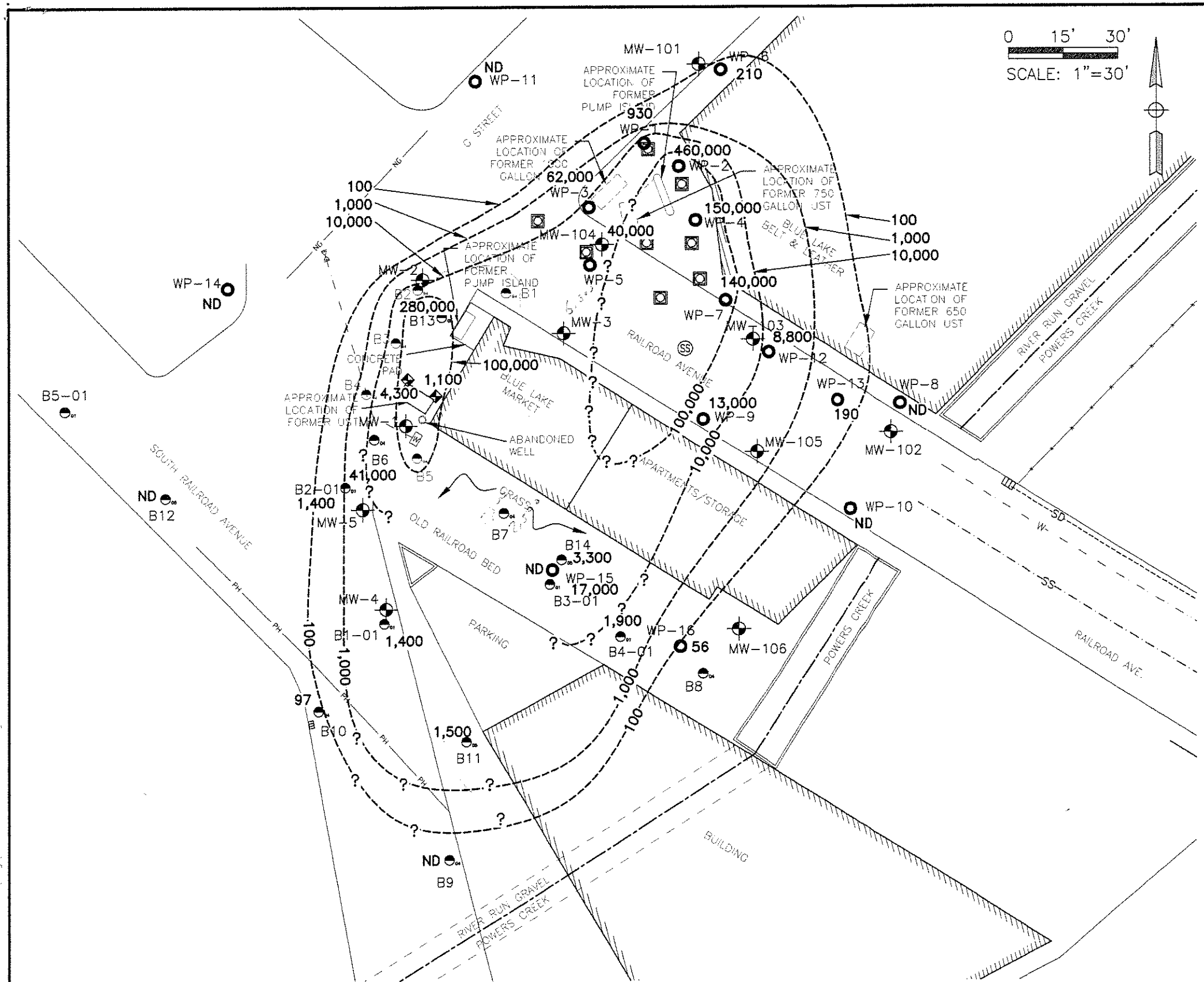
REPORT OF FINDINGS/ BORING INSTALLATION
CURRENT & HISTORIC TPHg IN SOIL ISOCONCENTRATION MAP

PAT FOLKINS
BLUE LAKE MARKET
RAILROAD AVE, BLUE LAKE, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	TDN
APPVD	
DATE	11/18/05
JOB NO.	3888.02
FIGURE	4

Nov 28,2005-8:24am
T:\CADFILES\3500\3888 Folkins Blue Lake\dwg\ 3888 ROF SITEsc30.dwg

Attachment 6



LEGEND

- MW-1 — LACO MONITORING WELL
- MW-106 — SHN MONITORING WELL
- WELL POINT (SHN 1998)
- BORING (LACO 1994)
- BORING (LACO 2001)
- BORING (LACO 2004)
- BORING (LACO 2005)
- SOIL SAMPLE LOCATIONS
- SHN OZONE SPARGE WELL
- 100 — INFERRED TPHg ISOCONCENTRATION CONTOURS

ALL RESULTS SHOWN ARE IN MICROGRAMS PER LITER (µg/L)

MONITORING WELL ANALYTICAL RESULTS WERE NOT CONSIDERED IN REGARDS TO THE LOCATION OF THE ISOCONCENTRATION CONTOURS.

ND = NON-DETECT

NS = NOT SAMPLED

UST LOCATIONS ARE APPROXIMATE

NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

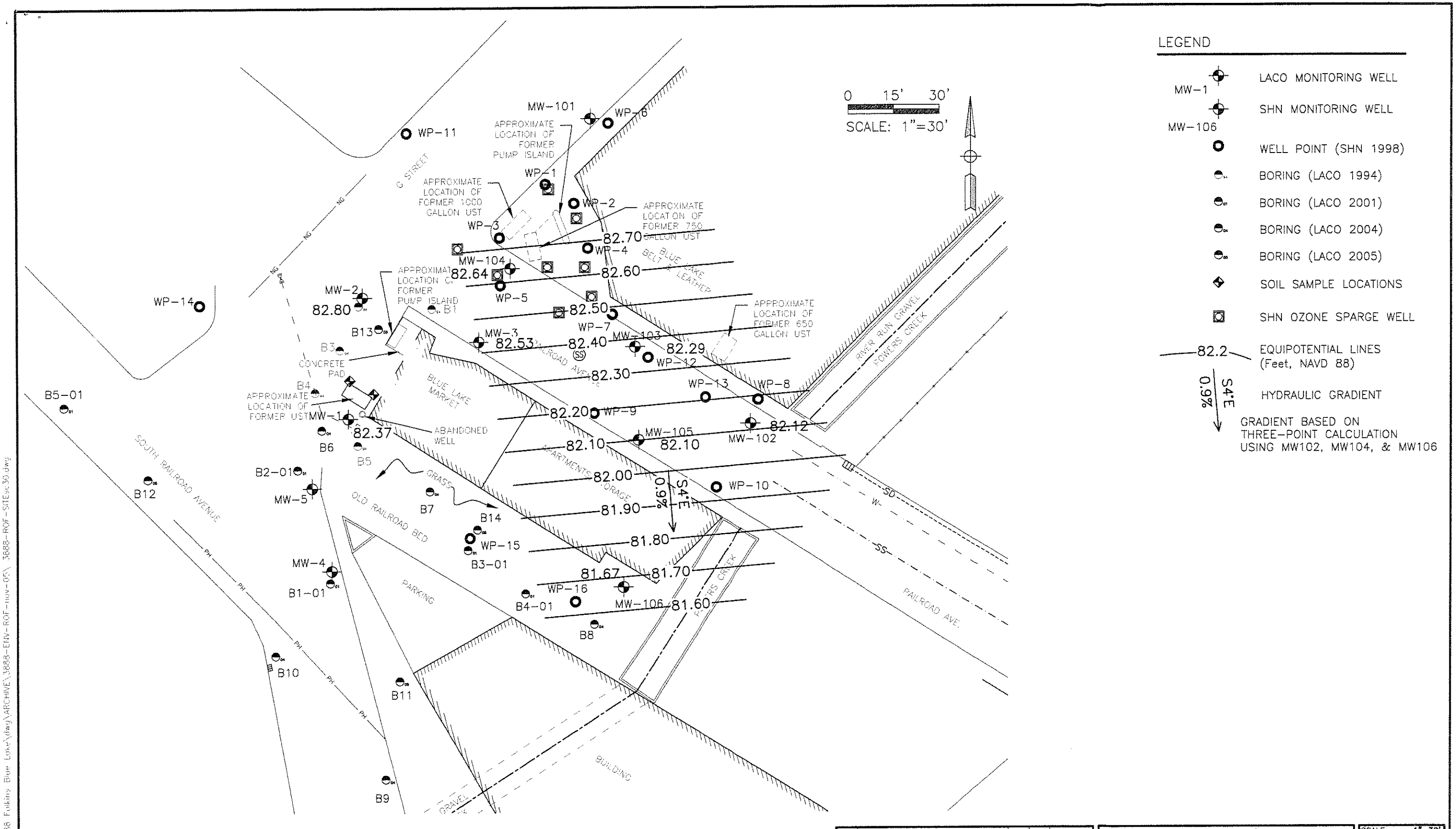
REPORT OF FINDINGS/ BORING INSTALLATION
CURRENT & HISTORIC TPHg IN GROUNDWATER ISOCONCENTRATION MAP

PAT FOLKINS
BLUE LAKE MARKET
RAILROAD AVE, BLUE LAKE, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	TDN
APPVD	
DATE	11/18/05
JOB NO.	3888.02
FIGURE	6

Nov 28,2005-5:26am
T:\CADFILES\3500\3888 Folkins Blue Lake\dwg\ 3888-ROF-SITE-c30.dwg

Attachment 7



NO.	REVISION	BY	CHK	DATE

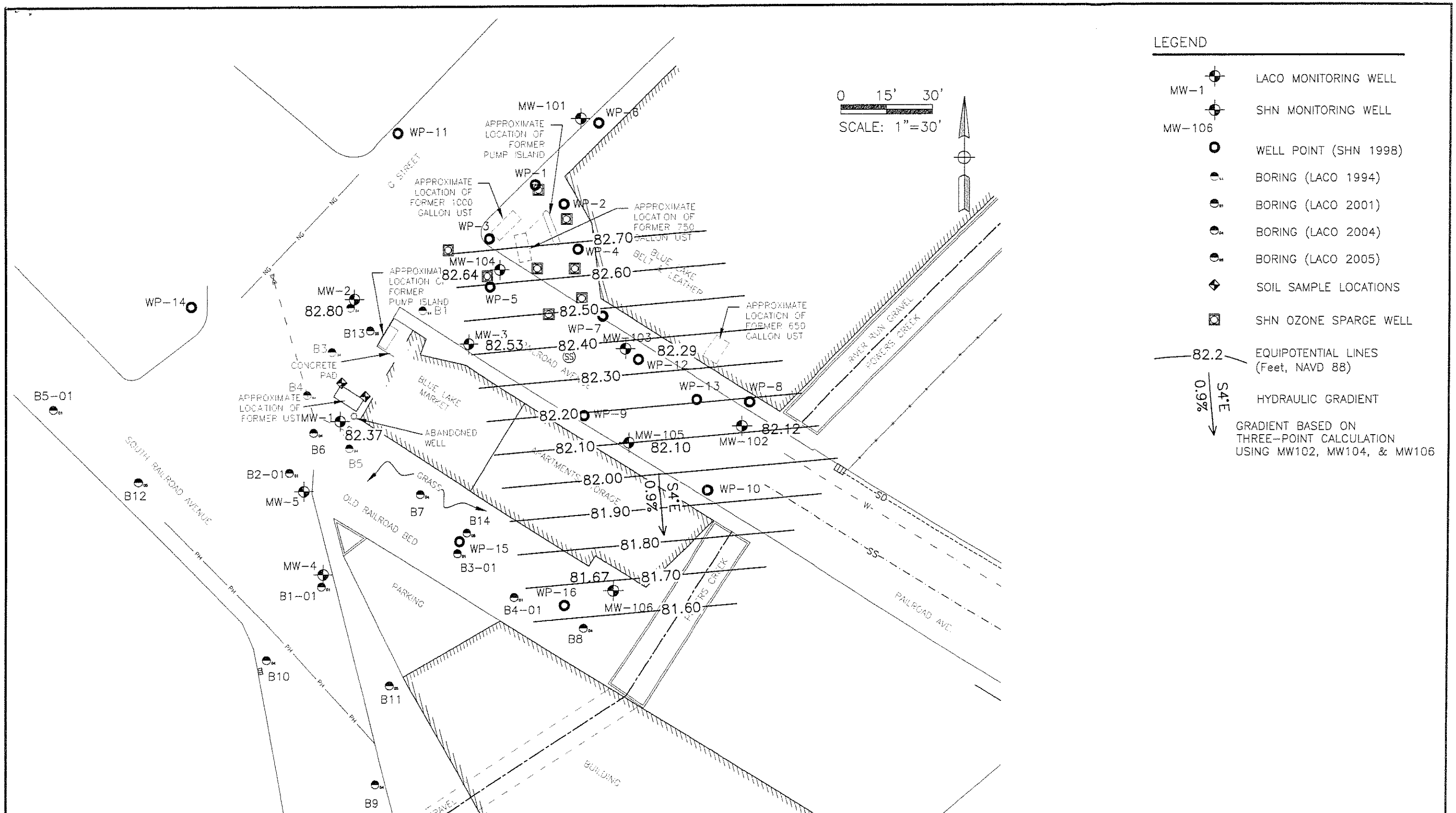
LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

REPORT OF FINDINGS/ BORING INSTALLATION
REVISED HYDRAULIC GRADIENT MAP (9/01/05)

PAT FOLKINS
BLUE LAKE MARKET
RAILROAD AVE, BLUE LAKE, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	TDN
APPVD	
DATE	11/11/05
JOB NO.	3888.02
FIGURE	10

Nov 28,2005-12:24pm
T:\CADFILES\3500\3888 Folkins Blue Lake\dwg\ARCHIVE\3888-ENV-ROF-nov-05\ 3888-ROF-SITE-30.dwg



NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

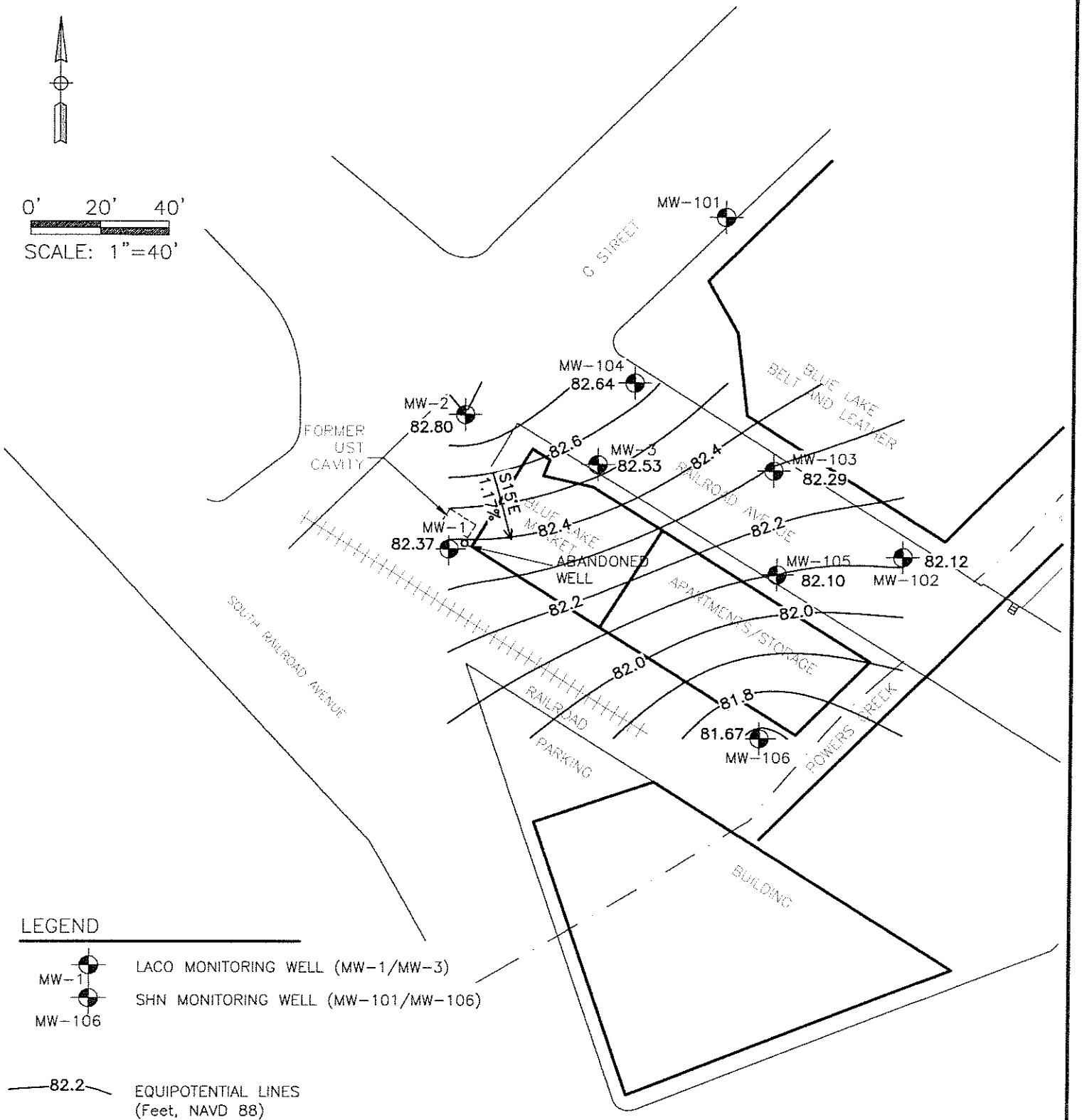
REPORT OF FINDINGS/ BORING INSTALLATION
REVISED HYDRAULIC GRADIENT MAP (9/01/05)

PAT FOLKINS
BLUE LAKE MARKET
RAILROAD AVE, BLUE LAKE, CA

SCALE	1"=30'
DRAWN	RJM
CHECK	TDN
APPVD	
DATE	11/11/05
JOB NO.	3888.02
FIGURE	10

Nov 28,2005-12:24pm
T:\CADFILES\3300\3888 Folkins Blue Lake\dwg\ARCHIVE\3888-EHV-ROF-nov-05\ 3888-ROF-SITE-01.30.dwg

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 3
	CLIENT PAT FOLKINS	DATE 9/23/05	
	LOCATION BLUE LAKE MARKET	CHECK	JOB NO. 3888.01
	HYDRAULIC GRADIENT MAP (9/01/05)	SCALE 1"=40'	



LEGEND

MW-1 LACO MONITORING WELL (MW-1/MW-3)

MW-106 SHN MONITORING WELL (MW-101/MW-106)

82.2 EQUIPOTENTIAL LINES (Feet, NAVD 88)

S15°E 1.1% HYDRAULIC GRADIENT

GRADIENT BASED ON THREE-POINT CALCULATION USING MW1, MW2, & MW3

Sep 30,2005-1:28pm
I:\CADFILES\3500\3888 Folkins Blue Lake\dwg\ 3888-ENV-GMR-30-05-SITE.dwg