March 13, 2006 ICES 6012

Mr. Robert Infelise
Cox, Castle & Nicholson LLP
555 Montgomery Street, Suite 1500
San Francisco, California 94111

Subject: Supplementary Site Investigation
Jordan Ranch
4233 Fallon Road
Dublin, California

Dear Robert:

Enclosed is the Supplementary Site Investigation Report documenting the soil and groundwater sampling that was conducted by Innovative and Creative Environmental Solutions at the Jordan Ranch located at 4233 Fallon Road in Dublin, California.

If you have any questions or comments concerning this report, please call Derek Wong or me.

Sincerely,

REGISTERED PROFESSIONAL ENGINEER
PENG K. LEONG
12/31/07
C039707
CIVIL
STATE OF CALIFORNIA

Peng Leong
Principal Engineer

Enclosure

cc: Mr. Aaron Ross-Swain, Standard Pacific Homes

SUPPLEMENTARY SITE INVESTIGATION

JORDAN RANCH
4233 FALLON ROAD
DUBLIN, CALIFORNIA

March 13, 2006

ICES 6012

Prepared for:

Mr. Robert Infelise
Cox, Castle & Nicholson LLP
555 Montgomery Street, Suite 1500
San Francisco, California 94111

Innovative & Creative Environmental Solutions
P. O. Box 99288 Emeryville CA 94662-9288
... (510) 652-3222 ...

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

March 13, 2006 ICES 6012

SUPPLEMENTARY SITE INVESTIGATION

JORDAN RANCH
4233 FALLON ROAD
DUBLIN, CALIFORNIA

1.0 INTRODUCTION

This report presents the findings of the Supplementary Site Investigation that was conducted by Innovative and Creative Environmental Solutions (ICES) at the Jordan Ranch located at 4233 Fallon Road in Dublin, California. ("the Site"; Figure 1).

The purpose of the investigation was to delineate the horizontal extent of petroleum constituents detected in soil and groundwater that were encountered in previous site investigations at the southwestern portion of the Site associated with the former underground storage tank (UST). The investigation was limited to collecting soil and grab groundwater samples and selectively analyzing the samples for total petroleum hydrocarbons (TPH) as gasoline (TPHg); TPH as diesel (TPHd); benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary butyl ether (MTBE); and volatile organic compounds (VOCs).

2.0 SITE DESCRIPTION

The Site consists of an approximately 200-acre square-shaped parcel located 0.5 miles north of the El Charro/Fallon Road interchange along U.S. Interstate 580. The Site extends from Fallon Road on the west to approximately 3,000 feet east. The Site generally consists of vacant grazing land, with a ranch house and several barns and equipment sheds located at the southwestern portion of the Site.

3.0 BACKGROUND

A Phase I Environmental Site Assessment was performed by Berlogar Geotechnical Consultants (BGC) in September 2000. BGC's assessment identified the location of a former UST at the southwestern portion of the Site.

BGC conducted a limited site investigation to assess the potential presence of contaminants associated with the former UST in December 2000. Soil samples were collected from two borings (B-1 and B-2) in the vicinity of the former UST. A total of six soil samples were collected from the two borings at depths ranging from approximately 5.5 to 19.5 feet below the existing ground surface (bgs). The soil samples were analyzed for TPHg, TPHd, and BTEX. Laboratory analytical results of the soil samples indicated that TPHg and TPHd were detected in all six of the soil samples with concentrations ranging from 25 to 4,200 mg/kg for TPHg, and 11 to 1,300 mg/kg for TPHd. Benzene was measured in one of the samples at a concentration of 16 mg/kg. Toluene, ethylbenzene, and xylenes were detected in the samples at maximum concentrations of 230, 86, and 420 mg/kg, respectively.

Northgate Environmental Management, Inc. (NEM) performed a Phase II soil and groundwater quality investigation in November 2005. The investigation consisted of analyzing soil and groundwater samples collected from five borings advanced in the vicinity of the former UST. Soil samples collected immediately adjacent to the former UST and adjacent fuel pump contained TPHg at maximum concentrations of 1,100 mg/kg. TPHd was reported at concentrations of up to 340 mg/kg. BTEX was detected in the soil samples at maximum concentrations of 1.8, 41, 15, and 77 mg/kg, respectively. MTBE was detected up to 0.96 mg/kg. Grab groundwater samples collected from the borings contained non-detectable concentrations of TPHd and elevated concentrations of TPHg, BTEX, MTBE, and VOCs.

In December 2005, NEM conducted an additional soil and groundwater investigation at the Site. Five groundwater monitoring wells (MW-1 through MW-5) were installed and developed in the vicinity of the former UST. Two grab groundwater samples were collected from two borings (NG-8 and NG-9) located approximately 250 feet downgradient of the former UST (at the southwestern portion of the Site). Additionally, soil gas samples were collected from nine locations (in the vicinity of

the former UST. Results of the soil gas samples indicated that samples contained non-detectable to low concentrations of TPHg, BTEX, MTBE, VOCs, with the exception of the measured concentration of benzene detected in samples SV-2 and SV-3. The detectable benzene contained in SV-2 and SV-3 exceeded the California Human Health Screening Level for residential landuse of 0.0362 ug/L. Groundwater samples collected from the five monitoring wells indicated high concentrations of TPHg, BTEX, MTBE, and VOCs in the groundwater within the immediate vicinity of the former UST. Non-detectable concentrations of TPHg, TPHd, BTEX, MTBE, and VOCs were recorded for the grab groundwater samples collected from borings NG-8 and NG-9.

4.0 SUPPLEMENTARY SITE INVESTIGATION

ICES collected soil and grab groundwater samples on March 7, 2006. Prior to sampling activities, the test pit locations were marked and cleared of underground utilities. Cruz Brothers of Milpitas were contacted to assist in utility clearance activities. A total of three soil samples and three grab groundwater samples were collected from three onsite test pits (TP-1 through TP-3). Test pit TP-1 was located northwest of the former UST; test pit TP-2 was located east of the former UST; and test pit TP-3 was located south of the former UST. The approximate test pit locations are shown in Figure 2. Environmental Construction Services of Fairfield, California excavated the test pits using an excavator.

Soil samples were collected by driving brass tubes directly into the soil that was removed from the sidewalls and brought to the ground surface in the excavator bucket from a depth of approximately 19.5 feet bgs. Grab groundwater samples were collected manually from the test pits using a Teflon bailer. The samples were transferred into 40-mL VOA vials using a Teflon septa and 1-liter amber glass jars. After being sealed and labeled, the soil and grab groundwater samples were immediately placed in a chilled cooler containing crushed ice for transportation to the laboratory. Proper documentation and field chain-of-custody procedures were followed.

All equipment used during this investigation which might have come into contact with contaminated materials was thoroughly decontaminated before and after each use. This was accomplished by washing with Alconox (a laboratory-grade detergent) and rinsing with deionized or distilled water.

5.0 LABORATORY ANALYSIS

The soil samples were sent to McCampbell Analytical, Inc. of Pacheco, California, a state-certified laboratory, and analyzed for:

<> TPHg using EPA Method 8015C;
<> TPHd using EPA Method 8015C; and
<> BTEX and MTBE using EPA Method 8021B;

The grab groundwater samples were analyzed for:

<> TPHg using EPA Method 8015C;
<> TPHd using EPA Method 8015C:
<> BTEX and MTBE using EPA Method 8021B; and
<> VOCs using EPA Method 8260B.

The samples were analyzed on a 72-hour rush turnaround basis.

6.0 INVESTIGATION RESULTS

The field observations and laboratory analytical results are presented below. The laboratory analytical results are summarized in Tables 1 and 2. Laboratory certificates are included in Appendix A.

6.1 Field Observations

The Site was generally underlain by a brown to tan silty clay and sandy clay to the total depth of the test pits at a depth of approximately 25 feet bgs. Groundwater was encountered at a depth of approximately 20 to 21 feet bgs.

The surficial sediments at the Site were neither stained nor discolored. Additionally, no odor was detected from the soil samples.

6.2 Laboratory Analytical Results

Analysis of the soil samples indicated that:

Petroleum Hydrocarbons

<> TPHg concentrations were less than 1.0 mg/kg (not detected).

- TPHd concentrations were less than 1.0 mg/kg (not detected).
- BTEX concentrations were less than 0.005 mg/kg (not detected).
- MTBE concentrations were less than 0.05 mg/kg (not detected).

Analysis of the grab groundwater samples indicated that:

Petroleum Hydrocarbons

- TPHg concentrations were less than 50.0 ug/L (not detected).
- TPHd concentrations were less than 50.0 ug/L (not detected).
- BTEX concentrations were less than 0.5 ug/L (not detected).
- MTBE concentrations were less than 5.0 ug/L (not detected).

Volatile Organic Compounds

- t-Butyl alcohol (TBA) concentrations ranged from 8.7 ug/L to 9.5 ug/L.
- The remaining volatile organic compounds analyzed using EPA Method 8260B were below their respective detection limits.

8.0 DISCUSSION

Laboratory analytical results indicated that the soil samples which were collected at a depth of approximately 19.5 feet bgs contained non-detectable concentrations of TPHg, BTEX, and MTBE. Results of the groundwater samples indicated non-detectable concentrations of TPHg, BTEX, and MTBE; and low to non-detectable concentrations of VOCs. The detectable TBA contained in samples TG-1W, TG-2W, and TG-3W were below the Regional Water Quality Control Board's Environmental Screening Level of 12 ug/L.

Based on the collective results of the site investigations, it appears that the soil and groundwater containing elevated petroleum constituents are limited to the immediate vicinity of the former UST at the southwestern portion of the Site. The approximate extent of the impacted area is shown in Figure 3.

9.0 EXCLUSIONS

ICES assumes no responsibility or liability for the reliance hereon or use hereof of information contained in this report by anyone other than the party to whom it is addressed.

The evaluations and recommendations presented in this report are based on the limited site investigation results available at this time and could be revised if new information necessitating further review of the Site becomes available.

TABLE 1

SOIL SAMPLE RESULTS
Jordan Ranch
4233 Fallon Road
Dublin, California

Sample ID	Depth (feet)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
TP-1	19.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
TP-2	19.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
TP-3	19.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05
Residential ESL (1)		100.0	100.0	0.044	2.9	3.3	2.3	0.023

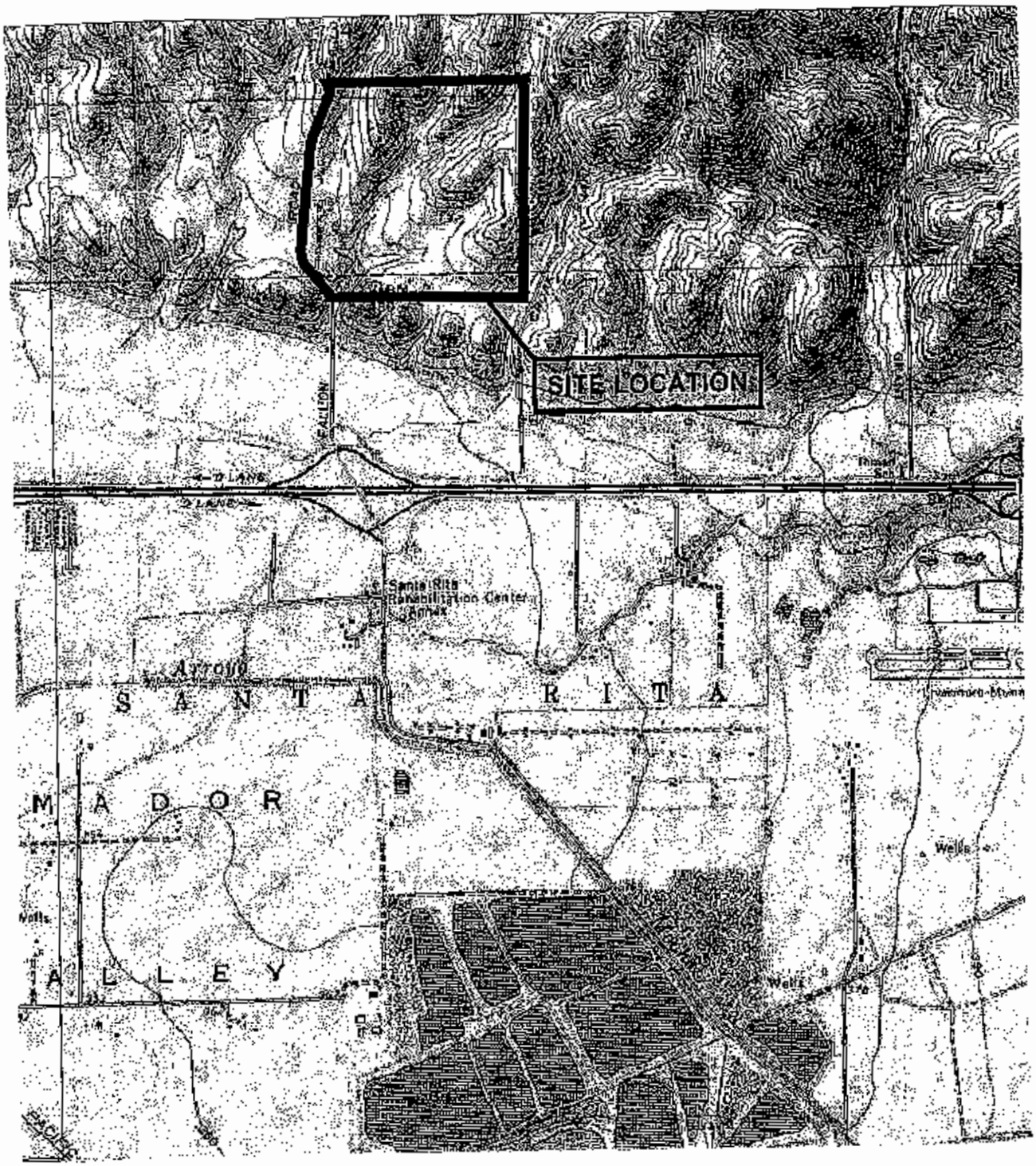
1. Deep Soils (>3m bgs), where groundwater is a current or potential source of drinking water.

TABLE 2

GROUNDWATER SAMPLE RESULTS
Jordan Ranch
4233 Fallon Road
Dublin, California

Sample ID	TPHg (ug/L)	TPHd (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	MTBE (ug/L)	t-Butyl alcohol (ugL)	VOCs (ug/L)
TP-1W	<50.0	<50.0	<0.5	<0.5	<0.5	<0.5	<5.0	8.7	<0.5-10.0
TP-2W	<50.0	<50.0	<0.5	<0.5	<0.5	<0.5	<5.0	9.5	<0.5-10.0
TP-3W	<50.0	<50.0	<0.5	<0.5	<0.5	<0.5	<5.0	9.3	<0.5-10.0
ESL (1)	100.0	100.0	1.0	40.0	30.0	20.0	5.0	12.0	---

1. Groundwater is a current or potential source of drinking water.



N

Scale: 1" : ± 2000'

March 2006

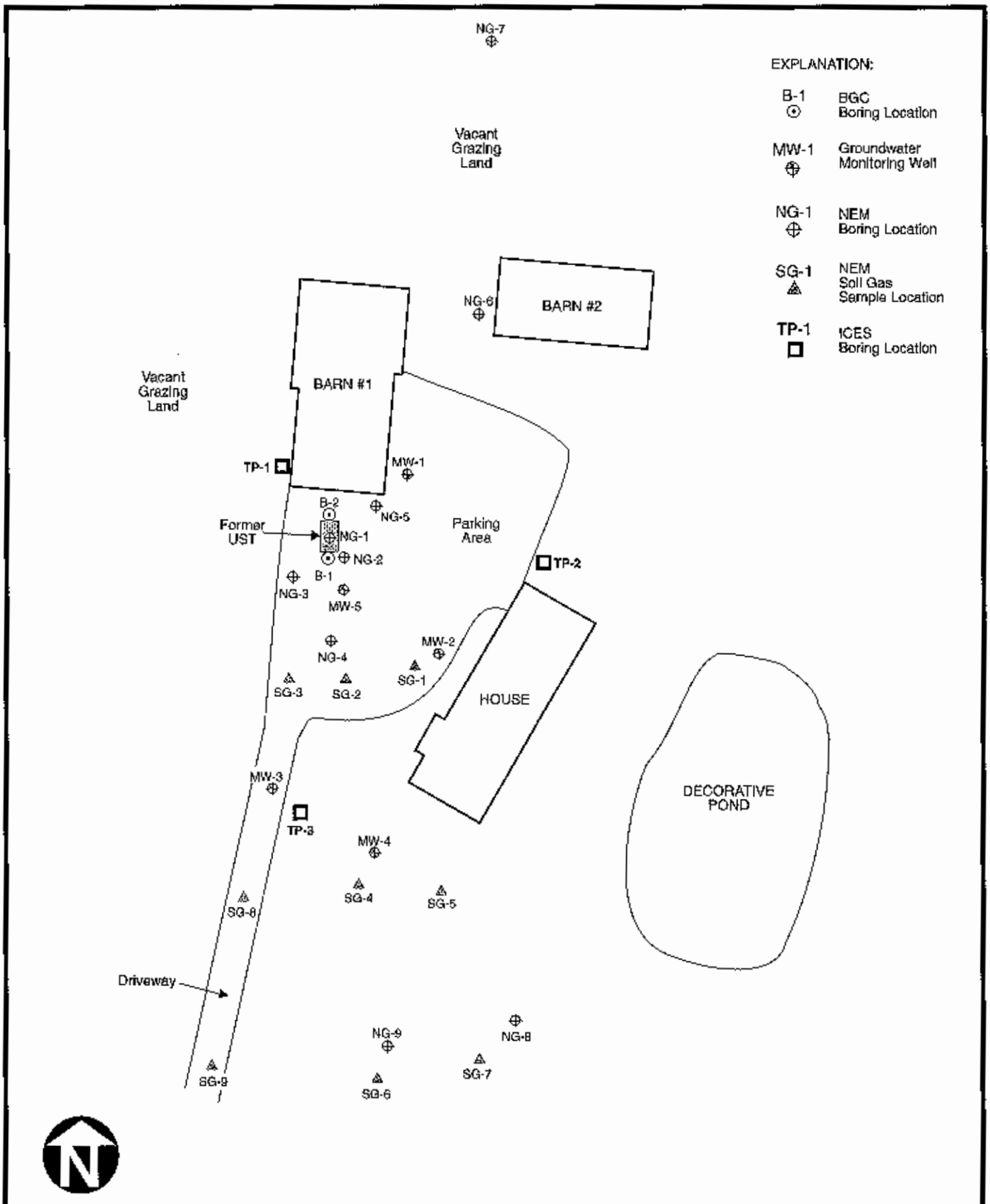
Innovative & Creative Environmental Solutions

SITE LOCATION

Jordan Ranch
4233 Fallon Road
Dublin, California

Figure 1

Project 6012



Scale: 1" : ± 60'

March 2006

TEST PIT LOCATIONS

Jordan Ranch
4233 Fallon Road
Dublin, California

Figure 2

Project 6012

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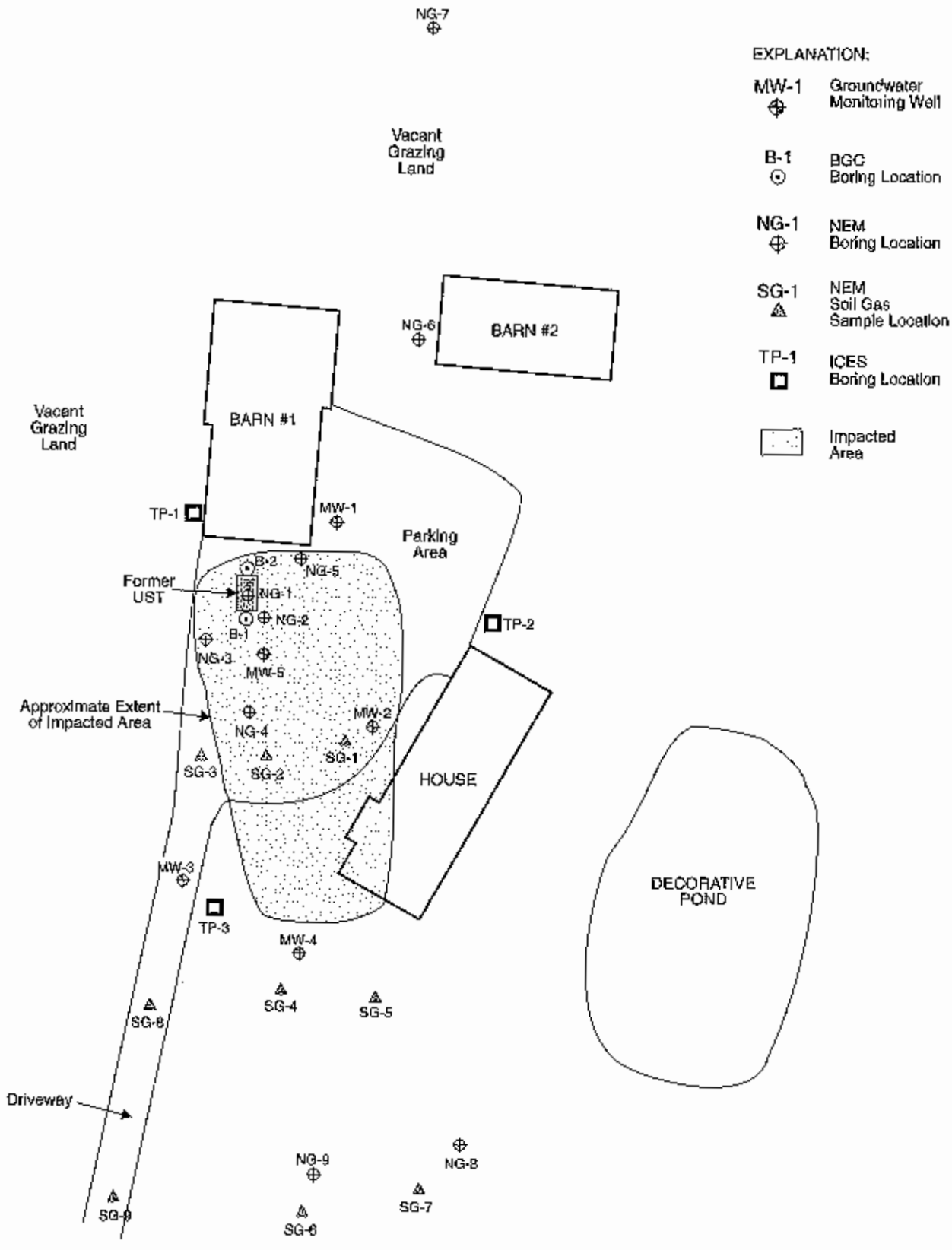

Scale: 1" : ± 60'

March 2006

EXTENT OF IMPACTED AREA

Jordan Ranch
4233 Fallon Road
Dublin, California

Figure 3

Project 6012

Innovative & Creative Environmental Solutions

APPENDIX A

LABORATORY CERTIFICATES

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ICES	Client Project ID: #6012	Date Sampled:	03/07/06
P.O. Box 99288		Date Received:	03/07/06
Emeryville, CA 94662	Client Contact: Peng Leong	Date Extracted:	03/07/06
	Client P.O.:	Date Analyzed:	03/08/06

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0603088

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	TP-1	S	ND	ND	ND	ND	ND	ND	1	90
002A	TP-2	S	ND	ND	ND	ND	ND	ND	1	95
003A	TP-3	S	ND	ND	ND	ND	ND	ND	1	89
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; o) results are reported on a dry weight basis.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ICES	Client Project ID: #6012	Date Sampled: 03/07/06
P.O. Box 99288		Date Received: 03/07/06
Emeryville, CA 94662	Client Contact: Peng Leong	Date Extracted: 03/07/06
	Client P.O.:	Date Analyzed: 03/07/06-03/08/06

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0603088

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0603088-001A	TP-1	S	ND	1	88
0603088-002A	TP-2	S	ND	1	88
0603088-003A	TP-3	S	ND	1	87

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

ICES 0603088

RUSH

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAY

EDF Required? ☐ Yes ☐ No

Report To: Peng Leong	Bill To: ICES
Company: ICES	
P.O. Box 99288	
Emeryville CA 94662	E-Mail:
Tele: ( ) 510-652-3222	Fax: ( ) 510-652-3555
Project #: ICES 6012	Project Name:
Project Location: Jordan Ranch	
Sampler Signature:	

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
TP-1		3-7-04		1			✓				✓				✓	✓															
TP-2		↓		1			✓				✓				✓	✓															
TP-3		↓		1			✓				✓				✓	✓															

Relinquished By:	Date: 3-7-04	Time: 2:30	Received By:
Relinquished By:	Date: 3/7/04	Time: 2:30	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ____
DECHLORINATED IN LAB ____

PRESERVATION APPROPRIATE ✓ | CONTAINERS ____ | PERSERVED IN LAB ____

VOAS	O&G	METALS	OTHER

McCampbell Analytical, Inc.

1102nd Avenue South, #D7, Pacheco, CA 94553-5560
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Emeryville, CA 94662	Client Contact: Peng Leong	Date Extracted:	03/08/06
	Client P.O.:	Date Analyzed:	03/08/06

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0603089

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	%SS
001A	TP-1W	W	ND	ND	ND	ND	ND	ND	1	106
002A	TP-2W	W	ND	ND	ND	ND	ND	ND	1	106
003A	TP-3W	W	ND	ND	ND	ND	ND	ND	1	109
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

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Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0603089

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0603089-001B	TP-1W	W	ND	1	100
0603089-002B	TP-2W	W	ND	1	95
0603089-003B	TP-3W	W	ND	1	99

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

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Emeryville, CA 94662	Client P.O.:	Date Analyzed: 03/07/06

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0603089

Lab ID	0603089-001C
Client ID	TP-1W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	8.7	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)			
%SS1:	102	%SS2:	105
%SS3:	95		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; & low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644

Angela Rydalius, Lab Manager

McCampbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

ICES	Client Project ID: #6012	Date Sampled: 03/07/06
		Date Received: 03/07/06
P.O. Box 99288	Client Contact: Peng Leong	Date Extracted: 03/07/06
Emeryville, CA 94662	Client P.O.:	Date Analyzed: 03/07/06

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0603089

Lab ID	0603089-002C
Client ID	TP-2W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	9.5	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
Methyl-t-butyl ether (MTBE)	ND	1.0	0.5	Methylene chloride	ND	1.0	0.5
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5	Naphthalene	ND	1.0	0.5
Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)			
%SS1:	97	%SS2:	104
%SS3:	102		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; & low surrogate due to matrix interference.

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DHS Certification No. 1644

Angela Rydelins, Lab Manager

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1180 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
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ICES	Client Project ID: #6012	Date Sampled: 03/07/06
		Date Received: 03/07/06
P.O. Box 99288	Client Contact: Peng Leong	Date Extracted: 03/07/06
Emeryville, CA 94662	Client P.O.:	Date Analyzed: 03/07/06

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0603089

Lab ID	0603089-003C
Client ID	TP-3W
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	5.0	Acrolein (Propenal)	ND	1.0	5.0
Acrylonitrile	ND	1.0	2.0	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	9.3	1.0	5.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	2-Chloroethyl Vinyl Ether	ND	1.0	1.0
Chloroform	ND	1.0	0.5	Chloromethane	ND	1.0	0.5
2-Chlorotoluene	ND	1.0	0.5	4-Chlorotoluene	ND	1.0	0.5
Dibromochloromethane	ND	1.0	0.5	1,2-Dibromo-3-chloropropane	ND	1.0	0.5
1,2-Dibromoethane (EDB)	ND	1.0	0.5	Dibromomethane	ND	1.0	0.5
1,2-Dichlorobenzene	ND	1.0	0.5	1,3-Dichlorobenzene	ND	1.0	0.5
1,4-Dichlorobenzene	ND	1.0	0.5	Dichlorodifluoromethane	ND	1.0	0.5
1,1-Dichloroethane	ND	1.0	0.5	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5
1,1-Dichloroethene	ND	1.0	0.5	cis-1,2-Dichloroethene	ND	1.0	0.5
trans-1,2-Dichloroethene	ND	1.0	0.5	1,2-Dichloropropane	ND	1.0	0.5
1,3-Dichloropropane	ND	1.0	0.5	2,2-Dichloropropane	ND	1.0	0.5
1,1-Dichloropropene	ND	1.0	0.5	cis-1,3-Dichloropropene	ND	1.0	0.5
trans-1,3-Dichloropropene	ND	1.0	0.5	Diisopropyl ether (DIPE)	ND	1.0	0.5
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Isopropylbenzene	ND	1.0	0.5	4-Isopropyl toluene	ND	1.0	0.5
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Nitrobenzene	ND	1.0	10	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes	ND	1.0	0.5

Surrogate Recoveries (%)			
%SS1:	97	%SS2:	104
%SS3:	101		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

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ICES 060308A

RUSH

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAY

EDF Required? ☐ Yes ☐ No

Report To: Peng Leong Bill To: SAME
Company: ICES
P.O. Box 99288
Emeryville, CA 94662 E-Mail:
Tele: ( ) 510-652-3222 Fax: ( ) 510-652-3555
Project #: ICES 6012. Project Name:
Project Location: Jordan Ranch
Sampler Signature:

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED Ice	HCl	HNO3	Other
TP-1W	TP-1	3-7-06		4		✓					✓	✓		
TP-1W	TP-1			1		✓					✓			
TP-2W	TP-2			4		✓					✓	✓		
TP-2W	TP-2			1		✓					✓			
TP-3W	TP-3			4		✓					✓	✓		
TP-3W	TP-3			1		✓					✓			

Analysis Request

BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	EPA 601 / 8010	EPA 602 / 8020	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/7239.2/6010)	RCI
✓									✓						
	✓														
✓									✓						
	✓														
✓									✓						
	✓														

Other | Comments

Relinquished By:	Date:	Time:	Received By:
	3-7-06	1250	
Relinquished By:	Date:	Time:	Received By:
	3/7/06	330	
Relinquished By:	Date:	Time:	Received By:

ICE/t ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ____
PRESERVATION APPROPRIATE ✓
CONTAINERS ✓
PRESERVED IN LAB ____

VOA	O&G	METALS	OTHER
✓			