

**RMC PACIFIC MATERIALS**

6601 KOLL CENTER PARKWAY  
P.O. BOX 5252  
PLEASANTON, CALIFORNIA 94566  
(925) 426-8787 • fax: (925) 426-2281  
www.rmcpacific.com

12/29/2003

Robert Weston  
Alameda County  
Dept. Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, Ca. 94502-6577

Alameda County  
DEC 31 2003  
Environmental Health

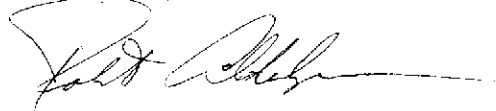
**RE: RMC Pacific Materials - Eliot Aggregate Plant  
Fuel System Upgrade - Under Dispenser Soil Sampling Results  
1544 Stanley Blvd., Pleasanton, CA.**

Mr. Weston,

RMC Pacific Materials is submitting the attached report describing the results of a subsurface soil investigation at the above-referenced property. This report is being submitted as part of the SB 989 upgrade requirements to UST fuel systems at facility. The report describes the sampling protocol and results of laboratory analysis on a soil sample taken from directly beneath the gasoline dispenser.

If you have any questions or concerns, please contact me at (925) 426-2261.

Sincerely,



Robert Aldenhuisen  
Environmental Supervisor

cc: R. Bier  
D. Tsuchida  
B. Kelly  
J. Robertson  
Files

RMC Pacific Materials, Inc.

December 01, 2003

P.O. Box 5252  
Pleasanton, CA 94566  
Attn.: Robert Aldenhuysen  
Project: EL10T

Dear Mr. Aldenhuysen,

Attached is our report for your samples received on 11/20/2003 15:01  
This report has been reviewed and approved for release. Reproduction of this report  
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after  
01/04/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,  
please call me at (925) 484-1919.

You can also contact me via email. My email address is: [vvancil@stl-inc.com](mailto:vvancil@stl-inc.com)

Sincerely,



Vincent Vancil  
Project Manager

**SUBSURFACE SOIL INVESTIGATION REPORT**  
**RMC Pacific Materials - Eliot Aggregate Plant**  
**Under Dispenser Fuel System Upgrade**  
**1544 Stanley Blvd., Pleasanton, CA.**

**INTRODUCTION**

This report describes the results of a subsurface soil investigation beneath the gasoline fuel dispenser at the above-referenced site. Analysis of the soil sample by a state certified laboratory indicates that petroleum contamination exists directly beneath the dispenser.

**SAMPLING PROTOCOL**

In late November 2003 both the gasoline and diesel UST fuel dispensers at the Eliot Aggregate Plant were upgraded with under-dispenser containment sumps to meet the SB 989 requirements. Mr. Robert Weston of the Alameda County Environmental Health Department was present to inspect the upgrade work and the sampling of soil beneath the dispensers.

Sampling under the gasoline dispenser began after approximately eighteen inches of compacted aggregate fill material was removed with a hand shovel. A 2-inch diameter hand auger was then used to dig into the native soil layer. Upon penetrating into the native soil layer the hand auger was removed and a 2-inch drive-sampler containing a clean laboratory supplied 2-inch brass sleeve was inserted into the hole. The sampler was then driven into the soil with a slide hammer until the sampling tube was completely filled with soil. The sampler was then extracted from the hole; the brass sleeve was removed from the sampler and soil sample packed down with latex-gloved hands. The ends of the brass sleeve were then covered with a clean section of plastic sheeting and laboratory provided end caps, leaving no space for volatilization of organic compounds. The sample was promptly labeled and then placed into a chilled ice chest for subsequent laboratory analysis at Severn Trent Laboratory (STL) in Pleasanton. Proper chain-of-custody protocol was maintained at all times. An attempt to sample the soil beneath the diesel dispenser proved unsuccessful due to the thick volume of aggregate fill material underlying that dispenser, making it very difficult to excavate the aggregate without caving in the sidewalls before reaching native soil. After a brief discussion with Mr. Weston it was decided that a sample would not be required due to the small amount of contaminated gravel observed and the sampling conditions. All petroleum contaminated aggregate material removed during the dispenser upgrade and sampling of the two dispenser areas was placed into two sealed 55-gallon drums for later, manifested, off-site disposal (copy of manifest to be supplied at a future date).

## **Results of Analysis**

The soil sample taken from beneath the gasoline dispenser was analyzed by STL for TPH-gasoline, BTEX and MTBE (EPA method 8015M/8021B). Laboratory analyses indicate that petroleum contamination was detected in the soil sample. The concentration of gasoline in the sample was found to be 2,300 mg/Kg. The levels of BTEX were as follows: Benzene - 12 mg/Kg, toluene - 110 mg/Kg, ethyl benzene - 53 mg/Kg, and xylene - 260 mg/Kg. The analysis for MTBE indicated a level of 71 mg/Kg. The results of analysis are presented in Table 1. A copy of the laboratory report and the chain-of-custody are included in Appendix A.

## **CONCLUSIONS**

Based on the laboratory analysis of the soil sample detectable concentration levels of petroleum contamination exist under the site's gasoline dispenser. The fuel upgrade contractor (Reinholdt Engineering Construction) had not reported finding any loose or leaking connections during any of the previous annual inspections or upgrade repairs to the system. RMC contends that this contamination is surficial and that it most likely came from the accumulation of minor fuel spillage running down through small joint cracks in the concrete pad during the filling of site vehicles. RMC knows that the groundwater level under the plant is at approximately 125 feet below surface grade and has therefore not been affected. RMC requests that site clean up be postponed until the UST system is removed in the coming years. For the foreseeable future RMC has instituted new under-dispenser inspection procedures to monitor the system on a routine basis.

Alameda County  
DEC 31 2003  
Environmental Health

# Appendix A

Laboratory Results of Analysis

**Table 1**  
**Eliot Aggregate Plant**  
**Results of Analysis - Gas/BTEX Compounds**  
**Under Dispenser Soil Sampling**

Sample Date	Sample ID	Sample Depth <sup>1</sup>	Gasoline (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl-benzene (mg/Kg)	Xylene (mg/Kg)	MTBE (mg/Kg)
11/20/2003	G-1	3	2300	12	110	53	260	71

Notes:

<sup>1</sup> = feet below surface grade

Gas/BTEX Compounds (High Level)

RMC Pacific Materials, Inc.

Attn.: Robert Aldenhuisen

P.O. Box 5252

Pleasanton, CA 94566

Phone: (925) 426-2261 Fax: (925) 426-2231

Project: EL10T

Received: 11/20/2003 15:01

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
G-1	11/20/2003 13:55	Soil	1

Gas/BTEX Compounds (High Level)

RMC Pacific Materials, Inc.

Attn.: Robert Aldenhuisen

P.O. Box 5252

Pleasanton, CA 94566

Phone: (925) 426-2261 Fax: (925) 426-2231

Project: EL10T

Received: 11/20/2003 15:01

Prep(s):	5030	Test(s):	8015M
	5030		8021B
Sample ID:	G-1	Lab ID:	2003-11-0716 - 1
Sampled:	11/20/2003 13:55	Extracted:	11/25/2003 14:05
Matrix:	Soil	QC Batch#:	2003/11/25-05.05

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	2300	100	mg/Kg	10.00	11/25/2003 14:05	
Benzene	12	6.2	mg/Kg	10.00	11/25/2003 14:05	
Toluene	110	6.2	mg/Kg	10.00	11/25/2003 14:05	
Ethyl benzene	53	6.2	mg/Kg	10.00	11/25/2003 14:05	
Xylene(s)	260	6.2	mg/Kg	10.00	11/25/2003 14:05	
MTBE	71	6.2	mg/Kg	10.00	11/25/2003 14:05	
<b>Surrogate(s)</b>						
Trifluorotoluene	NA	53-125	%	1.00	11/25/2003 14:05	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	11/25/2003 14:05	sd



Gas/BTEX Compounds (High Level)

RMC Pacific Materials, Inc.  
Attn.: Robert Aldenhuisen

P.O. Box 5252  
Pleasanton, CA 94566  
Phone: (925) 426-2261 Fax: (925) 426-2231

Project: EL10T

Received: 11/20/2003 15:01

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Method Blank

Soil

QC Batch # 2003/11/25-05.05

MB: 2003/11/25-05.05-001

Date Extracted: 11/25/2003 10:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	11/25/2003 10:29	
Benzene	ND	0.62	mg/Kg	11/25/2003 10:29	
Toluene	ND	0.62	mg/Kg	11/25/2003 10:29	
Ethyl benzene	ND	0.62	mg/Kg	11/25/2003 10:29	
Xylene(s)	ND	0.62	mg/Kg	11/25/2003 10:29	
MTBE	ND	0.62	mg/Kg	11/25/2003 10:29	
<b>Surrogates(s)</b>					
Trifluorotoluene	101.6	53-125	%	11/25/2003 10:29	
4-Bromofluorobenzene-FID	112.4	58-124	%	11/25/2003 10:29	

Gas/BTEX Compounds (High Level)

RMC Pacific Materials, Inc.

Attn.: Robert Aldenhuisen

P.O. Box 5252

Pleasanton, CA 94566

Phone: (925) 426-2261 Fax: (925) 426-2231

Project: EL10T

Received: 11/20/2003 15:01

Batch QC Report

Prep(s): 5030

Test(s): 8021B

Laboratory Control Spike

Soil

QC Batch # 2003/11/25-05.05

LCS 2003/11/25-05.05-002

Extracted: 11/25/2003

Analyzed: 11/25/2003 11:01

LCSD 2003/11/25-05.05-003

Extracted: 11/25/2003

Analyzed: 11/25/2003 11:32

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	0.120	0.126	0.125	96.0	100.8	4.9	77-123	35		
Toluene	0.125	0.130	0.125	100.0	104.0	3.9	78-122	35		
Ethyl benzene	0.117	0.124	0.125	93.6	99.2	5.8	70-130	35		
Xylene(s)	0.376	0.395	0.375	100.3	105.3	4.9	75-125	35		
<b>Surrogates(s)</b>										
Trifluorotoluene	543	561	500	108.6	112.2		53-125	0		

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2003 16:43

Gas/BTEX Compounds (High Level)

RMC Pacific Materials, Inc.

Attn.: Robert Aldenhuysen

P.O. Box 5252

Pleasanton, CA 94566

Phone: (925) 426-2261 Fax: (925) 426-2231

Project: EL10T

Received: 11/20/2003 15:01

Batch QC Report

Prep(s): 5030

Test(s): 8015M

Laboratory Control Spike

Soil

QC Batch # 2003/11/25-05.05

LCS 2003/11/25-05.05-004

Extracted: 11/25/2003

Analyzed: 11/25/2003 09:55

LCSD 2003/11/25-05.05-005

Extracted: 11/25/2003

Analyzed: 11/25/2003 10:27

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	0.635	0.651	0.625	101.6	104.2	2.5	75-125	35		
<i>Surrogates(s)</i>										
4-Bromofluorobenzene-FID	535	552	500	107.0	110.4		58-124			

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/01/2003 16:43

Gas/BTEX Compounds (High Level)

RMC Pacific Materials, Inc.

Attn.: Robert Aldenhuisen

P.O. Box 5252

Pleasanton, CA 94566

Phone: (925) 426-2261 Fax: (925) 426-2231

Project: EL10T

Received: 11/20/2003 15:01

---

Legend and Notes

---

**Result Flag**

sd

Surrogate recovery not reportable due to required dilution.

**2003-11-0716**

**Report To** **Analysis Request**

Attn: ROB ALDENHUYSEN  
 Company: RMC PACIFIC  
 Address: PO BOX 5252  
 Phone: (925) 426-2261 Email:  
 Bill To: \_\_\_\_\_ Sampled By: \_\_\_\_\_  
 Attn: \_\_\_\_\_ Phone: \_\_\_\_\_

TPH EPA -  8015/8021  8260B  
 Gas w/  BTEX  MTBE  
 Purgeable Aromatics  
 BTEX EPA -  8021  8260B  
 TEPH EPA 8015M  Silica Gel  
 Diesel  Motor Oil  Other \_\_\_\_\_  
 Fuel Tests EPA 8260B:  Gas  BTEX  
 Five Oxygenates  DCA, EDB  Ethanol  
 Purgeable Halocarbons  
 (HVOCS) EPA 8021  
 Volatile Organics GC/MS (VOCs)  
 EPA 8260B  624  
 Semivolatiles GC/MS  
 EPA 8270  625  
 Oil and Grease  Petroleum  
 (EPA 1684)  Total  
 Pesticides  EPA 8081  608  
 EPA 8082  608  
 PCBs  
 PNAs by  8270  8310  
 C-AM17 Metals  
 (EPA 6010/7470/7471)  
 Metals:  Lead  LUFT  RCRA  
 Other: \_\_\_\_\_  
 W.E.T (STLC)  
 TCLP  
 Hexavalent Chromium  
 pH (24h hold time for H<sub>2</sub>O)  
   
 Spec Conc:  Alkalinity  
 TSS  TDS  
 Anions:  Cl  SO<sub>4</sub>  NO<sub>3</sub>  F  
 Br  NO<sub>2</sub>  PO<sub>4</sub>

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B <input checked="" type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M <input type="checkbox"/> Silica Gel <input type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other _____	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCS) EPA 8021	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1684) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608 PCBs	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	C-AM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other: _____	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H <sub>2</sub> O) <input type="checkbox"/> <input type="checkbox"/>	Spec Conc: <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> PO <sub>4</sub>	Number of Containers	
G-1	11/20/03	13:55	SDA	1/A	X																	1

**Project Info.**  
 Project Name: ELIOT  
 Project#: \_\_\_\_\_  
 PO#: \_\_\_\_\_  
 Credit Card#: \_\_\_\_\_

**Sample Receipt**  
 # of Containers: \_\_\_\_\_  
 Head Space: \_\_\_\_\_  
 Temp: 14.0°C  
 Conforms to record: \_\_\_\_\_

T 5 Day 72h 48h 24h Other:  
 Report:  Routine  Level 3  Level 4  EDD  State Tank Fund EDD  
 Special Instructions / Comments:  Global ID \_\_\_\_\_

1) Relinquished by:  
Robert Aldenhuyesen 15:01  
 Signature Time  
ROBERT ALDENHUYSEN 11/20/03  
 Printed Name Date  
RMC PACIFIC MATERALS  
 Company

1) Received by:  
 Signature Time  
 Printed Name Date  
 Company

2) Relinquished by:  
 Signature Time  
 Printed Name Date  
 Company

2) Received by:  
 Signature Time  
 Printed Name Date  
 Company

3) Relinquished by:  
 Signature Time  
 Printed Name Date  
 Company

3) Received by:  
Denise Harrington  
 Signature Time  
D. Harrington 1501  
 Printed Name Date  
STL SF 11/20/03  
 Company

**STL San Francisco**

### Sample Receipt Checklist

Submission #: 2003- 11 - 0716

Checklist completed by: (initials) NK Date: 11 / 20 /03

Courier name:  STL San Francisco  Client \_\_\_\_\_

- Custody seals intact on shipping container/samples Yes \_\_\_ No \_\_\_ Not Present
- Chain of custody present? Yes  No \_\_\_
- Chain of custody signed when relinquished and received? Yes  No \_\_\_
- Chain of custody agrees with sample labels? Yes  No \_\_\_
- Samples in proper container/bottle? Yes  No \_\_\_
- Sample containers intact? Yes  No \_\_\_
- Sufficient sample volume for indicated test? Yes  No \_\_\_
- All samples received within holding time? Yes  No \_\_\_
- Container/Temp Blank temperature in compliance ( $4^{\circ}C \pm 2$ )? Temp: 14.0 °C Yes  No \_\_\_
- Ice Present Yes \_\_\_ No
- Water - VOA vials have zero headspace? No VOA vials submitted  Yes \_\_\_ No \_\_\_

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt?  Yes  No soil  
 pH adjusted- Preservative used:  HNO<sub>3</sub>  HCl  H<sub>2</sub>SO<sub>4</sub>  NaOH  ZnOAc -Lot #(s) \_\_\_\_\_

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: < hrs from sampling

#### Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) \_\_\_\_\_ Date: \_\_\_\_\_ / \_\_\_\_\_ /03

Client contacted:  Yes  No

Summary of discussion: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action (per PM/Client): \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_