

**GROUNDWATER MONITORING AND
PRODUCT RECOVERY PROGRESS REPORT**

**ARAMARK UNIFORM SERVICES, INC.
330 CHESTNUT STREET
OAKLAND, CALIFORNIA**

Sept 95

PREPARED FOR

**ARAMARK UNIFORM SERVICES, INC.
SCHAUMBURG, ILLINOIS**

PREPARED BY

**RMT, INC.
MARINA DEL REY, CA**

SEPTEMBER 1995

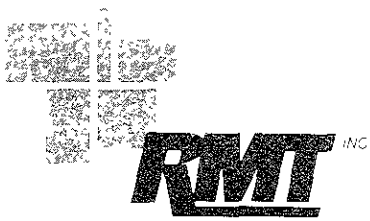
ENVIRONMENTAL
PROTECTION
55 SEP 19 AM 9:35

Kevin Bate

Kevin Bate
Project Engineer

James W. Van Nortwick, Jr.

James W. Van Nortwick, Jr., Ph.D., P.E.
Project Manager



RMT, Inc. — LOS ANGELES
4640 ADMIRALTY WAY SUITE 301
MARINA DEL REY, CA 90292-6621
310/578-1241 310/821-3280 FAX

September 18, 1995

510 692

Ms. Jennifer Eberle
Alameda County - Environmental Health Department
Environmental Protection Division
1131 Harbor Bay Parkway, #250
Alameda, CA 94502-6577

**RE: Quarterly Groundwater Monitoring Progress Report
ARAMARK Uniform Services, Inc.
330 Chestnut Street, Oakland, California**

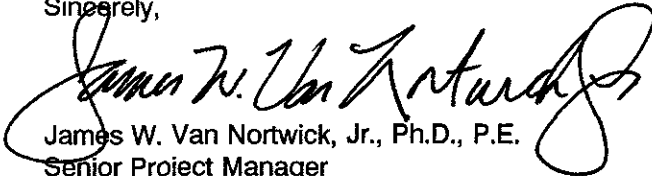
Dear Ms. Eberle:

This letter transmits the results of the groundwater monitoring activities conducted in August 1995, at the referenced facility. As you may note, a comparison of the results of the chemical analyses indicate that contaminant concentrations have decreased since the previous sampling event.

In response to your letter dated August 21, 1995, the groundwater monitoring program will be modified as you requested; i.e., monitoring wells RAO-1, MW-4, and MW-5 will be sampled in November 1995, however, it is proposed that Bio-Clean, a common septic tank additive (active ingredients: bacteria culture, amylase, protease, cellulase, and lipase enzymes) be used to remove residual product that may be present in the product recovery well (RAO-3) screen and surrounding sand pack before initiating sampling activities.

If you have any questions regarding this report, please feel free to contact me at (310) 578-1241, or Bob Robbins at (608) 592-3222.

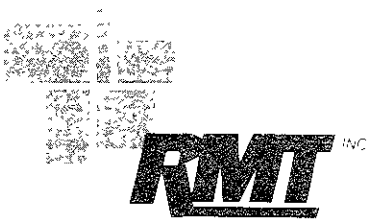
Sincerely,


James W. Van Nortwick, Jr., Ph.D., P.E.
Senior Project Manager

encl: Quarterly Groundwater Monitoring Report

cc: Samuel J. Niemann, The Wetlands Company

NOV 1995
95 SEP 19 AM



RMT, INC. — LOS ANGELES
4640 ADMIRALTY WAY SUITE 301
MARINA DEL REY, CA 90292-6621
310/578-1241 310/821 3280 FAX

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
1. INTRODUCTION	1
1.1 Former Diesel Fuel UST Area	1
1.2 Former Diesel Fuel Dispenser and Mop Oil UST Area	1
1.3 Purpose and Scope	2
2. GROUNDWATER MONITORING ACTIVITIES	4
2.1 Static Water Level Measurements	4
2.2 Groundwater Sample Collection	4
2.3 Groundwater Flow	4
2.4 Chemical Analyses of Groundwater	6
2.5 Disposal of Purged Groundwater	6
3. PRODUCT RECOVERY ACTIVITIES	9

List of Tables

Table 1	Static Water Level Measurements (August 2, 1995)	6
Table 2	Chemical Analyses of Groundwater (Former Diesel Fuel UST Area)	7
Table 3	Chemical Analyses of Groundwater (Former Dispenser and Mop Oil UST Area) ..	8

List of Figures

Figure 1	Site Plan	3
Figure 2	Water Table Map - August 1995	5

List of Appendices

Appendix A	Groundwater Sample Collection Data
Appendix B	Laboratory Report
Appendix C	Waste Manifest
Appendix D	Product Recovery Observations

Section 1
INTRODUCTION

1.1 Former Diesel Fuel UST Area

ARAMARK Uniform Services, Inc., (ARAMARK) owns and operates an industrial laundry facility located at 330 Chestnut Street in Oakland, California. A 2,000-gallon underground diesel fuel storage tank was formerly maintained at this facility to supply fuel for the operation of a boiler. The diesel fuel storage tank was removed from the facility in December 1988 and a tank closure documentation report was submitted to the Alameda County Health Care Services Agency (ACHCSA). Based on the information presented in the tank documentation report, the ACHCSA requested that ARAMARK conduct post-closure sampling activities to determine whether the soil and groundwater surrounding the underground storage tank had been impacted by petroleum hydrocarbons.

Remedial investigation activities were conducted by RMT from March 1989, through November 1992, and included the advancement of soil borings and four groundwater monitoring wells (RAO-1 through RAO-4) in the vicinity of the former excavation area. The results of chemical analyses performed on groundwater samples collected from monitoring wells RAO-1 and RAO-2 identified the presence of total petroleum hydrocarbons (TPH) and benzene, toluene, and xylenes (BTEX) and free-product was consistently observed in the groundwater monitoring well located within the former underground storage tank excavation (RAO-3). Because the results of the sampling activities indicated that the extent of petroleum hydrocarbon contamination was limited to the former tank excavation, a product recovery canister was installed in December 1992. To date, the product recovery system has recovered approximately 6,202-mL of free-product, however, the quantity of product recovered each sampling interval has significantly decreased. In addition, with the exception of the chemical analyses performed on groundwater samples collected during February 1995, the presence of TPH or BTEX has not been identified in any groundwater sample collected since May 1993.

1.2 Former Diesel Fuel Dispenser and Mop Oil UST Area

Two single walled, steel, underground petroleum hydrocarbon storage tanks were maintained at this facility to supply fuel for the delivery vehicles. In addition, an underground mop oil storage tank was also maintained at the facility. RMT, Inc. (RMT), was retained by ARAMARK to document the removal and disposal of the underground storage tanks and perform soil sampling as required by the ACHCSA. Tank removal activities were conducted during the period of September 1993 through January 1994. The results of the chemical analyses performed on the soil samples collected from the floor of the former

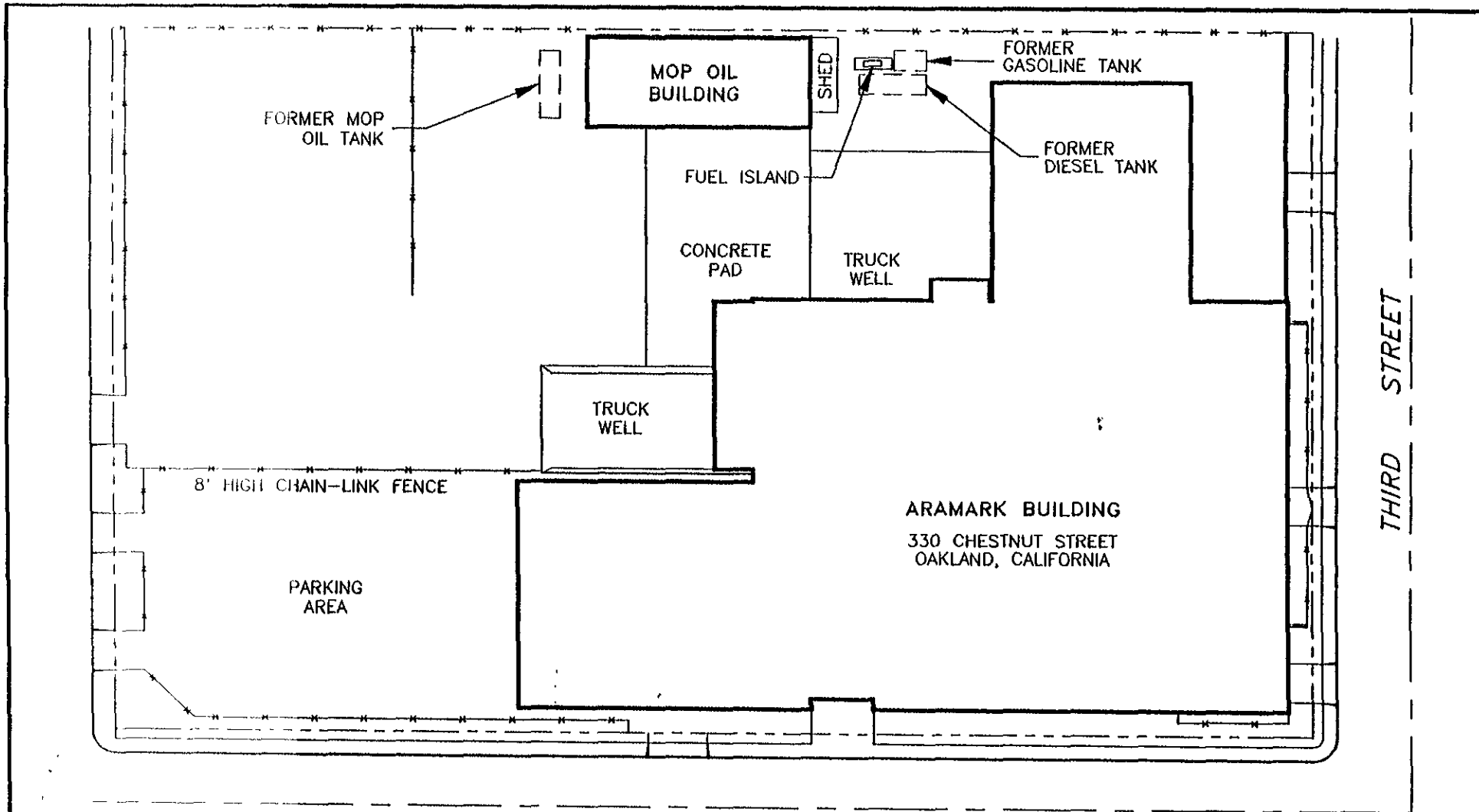
diesel fuel dispenser vault excavations, the former mop oil tank excavation, and in the vicinity of the eastern section of the loading dock identified the presence of petroleum hydrocarbons.

In response to the request from the ACHCSA, ARAMARK engaged the services of RMT, Inc., to conduct soil and groundwater sampling activities in the vicinity of the former diesel fuel dispenser vaults and mop oil tank. Field activities were conducted on May 5, 1995 and included the advancement of two soil borings and the installation of two groundwater monitoring wells; MW-4 located in the vicinity of the former underground mop oil storage tank and MW-5 located in the vicinity of the former diesel fuel dispenser vaults (See Figure 1). The results of the chemical analyses performed on soil samples collected from soil borings located in the vicinity of the former mop oil and diesel fuel underground storage tanks did not identify the presence of petroleum hydrocarbons. In addition, although the results of the chemical analyses performed on groundwater samples collected from the newly installed monitoring wells identified the presence of total petroleum hydrocarbons, TPH-MS and TPH-D concentrations are generally less than 1-mg/L. A site plan showing the location of the former diesel fuel tanks and the mop oil tank is presented in Figure 1.

1.3 Purpose and Scope

The purpose of this report is to summarize the results of the groundwater monitoring activities conducted on August 2, 1995, at the ARAMARK facility. The scope of work conducted during the groundwater investigation included the following:

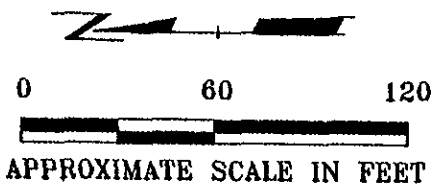
- The purging and sampling of five groundwater monitoring wells, and
- The chemical analyses of groundwater samples for the presence of BTEX and TPH-D using EPA SW-846 Method 8020 and Method 8015M.



CHESTNUT STREET

THIRD STREET

PROJECT:		
ARAMARK UNIFORM SERVICES OAKLAND, CALIFORNIA		
SHEET TITLE:		
SITE PLAN		
DRAWN BY: CRB	SCALE:	PROJ. NO. 12013.11
CHECKED BY:	1" = 60'-0"	FILE NO. 1102
APPROVED BY:	DATE PRINTED:	FIGURE 1
DATE: MAY 1985		



RMT Inc. - Los Angeles
Phone: 310/378-1241
4640 Admiralty Way
Suite 301
Marina Del Rey, CA 90292

Section 2
GROUNDWATER MONITORING ACTIVITIES

Groundwater sampling activities were conducted on August 2, 1995, and included obtaining static water level measurements and groundwater samples from monitoring wells RAO-1, RAO-2, RAO-4, MW-4, and MW-5. Groundwater samples were not collected from monitoring well RAO-3 which is currently being utilized for product recovery.

2.1 Static Water Level Measurements

Prior to collecting groundwater samples, the depth to groundwater was measured in each monitoring well using an electronic water level indicator. Three rounds of groundwater heights were taken to assess any variability in measurement.

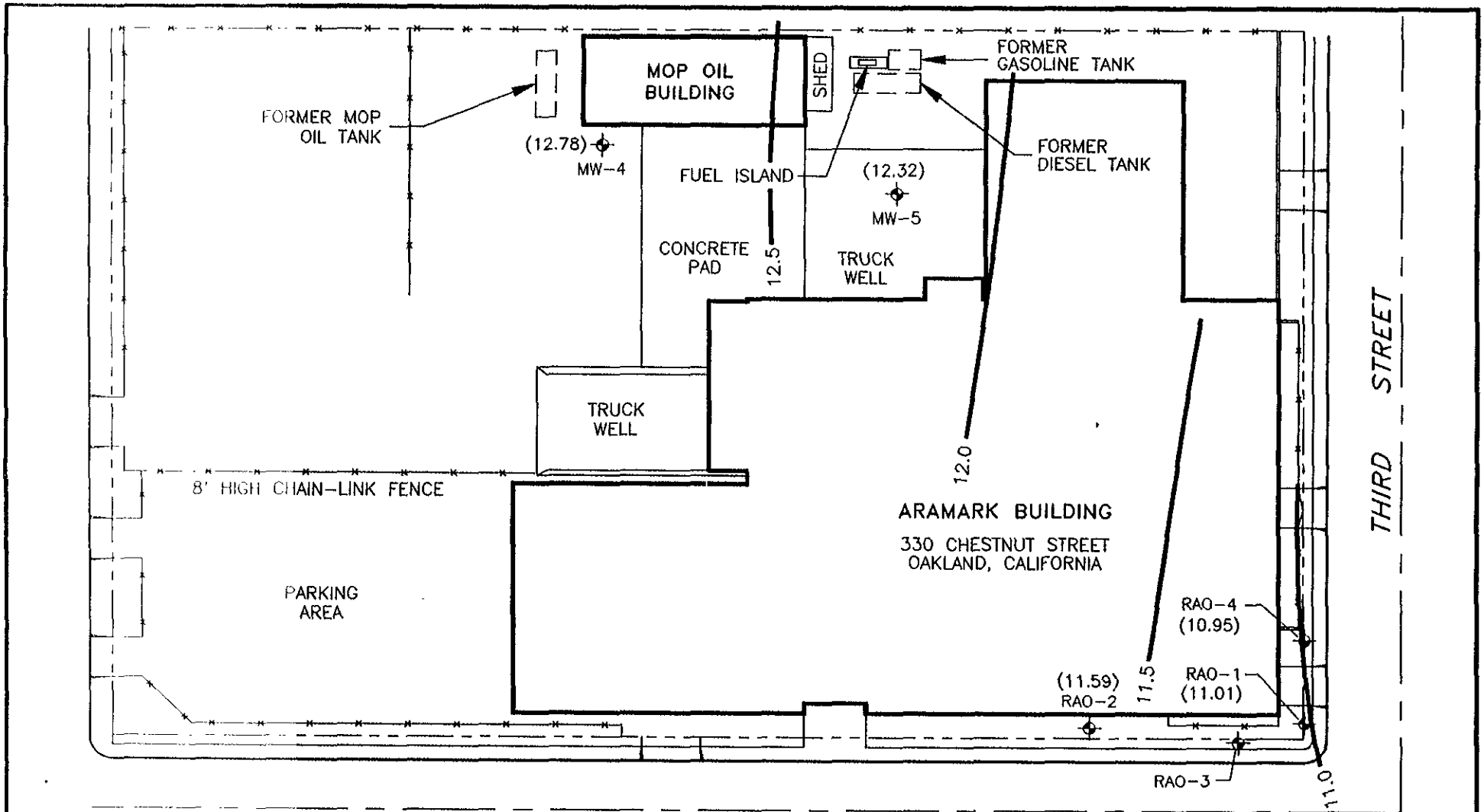
2.2 Groundwater Sample Collection

Groundwater samples were collected from monitoring wells RAO-1, RAO-2, RAO-4, MW-4, and MW-5. Prior to sampling, each monitoring well was purged using a bailer. A minimum of three well casing volumes (casing and sand pack volume) were extracted from each well before collecting groundwater samples. The temperature, pH, and conductivity of the extracted groundwater was measured and recorded at least once per well casing volume. The well casing volume was determined by measuring and recording the static water level and calculating the well volume. The purging bailer was decontaminated between each sampling event by rinsing with tap water to remove particulates, washing with a tri-sodium phosphate solution, and rinsing with deionized water.



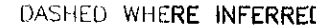
After each monitoring well had recharged to within 80 percent of its pre-purge volume (approximately 15-min) groundwater samples were collected utilizing a disposable Teflon bailer equipped with a teflon stopcock, and dispensed directly into 40-mL borosilicate vials with teflon septa and screw caps. All samples were preserved using hydrochloric acid and stored on ice pending transport to a commercial independent California-certified laboratory according to USEPA protocol, including chain-of-custody procedures. Groundwater sample collection data are presented in Appendix A.

2.3 Groundwater Flow

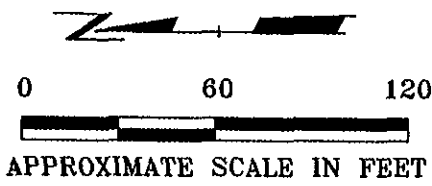
Static water level measurements and groundwater elevations obtained on August 2, 1995, are summarized in Table 1 and the water table map generated from the water level data is presented in Figure 2. The groundwater flow direction is southeast with a gradient of approximately 0.006-ft/ft.



LEGEND:

-  MW 5 GROUNDWATER MONITORING WELL
-  11.50 LINE OF EQUAL GROUNDWATER IN FEET ABOVE MEAN SEA-LEVEL
-  DASHED WHERE INFERRED
- (12.78) GROUNDWATER ELEVATION (IN FEET ABOVE MSL)

CHESTNUT STREET



PROJECT: ARAMARK UNIFORM SERVICES
OAKLAND, CALIFORNIA

SHEET TITLE: WATER TABLE MAP - AUGUST 2, 1995

DRAWN BY: CRB	SCALE: 1" = 60'-0"	PROJ. NO. 12013.11
CHECKED BY:		FILE NO. 1102
APPROVED BY:	DATE PRINTED:	FIGURE 2
DATE: MAY 1995		


 RMI Inc. - Los Angeles
Phone: 310/578-1241
4840 Admiralty Way
Suite 301
Marina Del Rey, CA 90292

Table 1

Static Water Level Measurement

Monitoring Well Location	TOC Elevation (ft above MSL)	Depth to Water (ft below TOC)	Groundwater Elevation (ft above MSL)
RAO-1	19.08	8.07	11.01
RAO-2	19.57	7.98	11.59
RAO-4	19.30	8.35	10.95
MW-4	22.69	9.91	12.78
MW-5	21.09	8.77	12.32

2.4 Chemical Analyses of Groundwater

Groundwater samples collected from monitoring wells RAO-1, RAO-2, RAO-3, and MW-5 (former diesel fuel tank area and diesel fuel dispenser area) were analyzed for the presence of BTEX and TPH-D using EPA SW-846 Method 8020 and Method 8015M, respectively, while groundwater samples collected from monitoring well MW-4 (former mop oil storage tank area) were analyzed for the presence of TPH using EPA SW-846 Methods 8015M. The results of the laboratory analyses are summarized in Table 2 (former diesel fuel UST Area) and Table 3 (former diesel fuel dispenser and mop oil UST area) and a copy of the laboratory report is included in Appendix B. All laboratory analyses were conducted by Curtis & Tompkins, Ltd., of Berkeley, California.

2.5 Disposal of Purged Groundwater

Groundwater extracted during monitoring well purging activities was contained in 55-gal DOT-approved drums, labeled with the date, generator's name, site location, source, and stored on-site pending off-site disposal. A copy of the waste disposal manifest for the second quarter sampling event (May 1995) is included in Appendix C.

Table 2

Chemical Analyses of Groundwater (Former Diesel Fuel UST Area)

Sample Location	Sampling Date	Parameter (ug/L)				
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH-D
RAO-1	08-02-95	<0.5	<0.5	<0.5	<0.5	<50
	05-05-95	<0.5	<0.5	<0.5	<0.5	<50
	02-03-95	<0.5	<0.5	<0.5	<0.5	560
	11-18-94	<1.0	<1.0	<1.0	<1.0	<50
	08-12-94	<1.0	<1.0	<1.0	<1.0	<50
	04-28-94	<1.0	<1.0	<1.0	<1.0	<50
	01-29-94	<1.0	<1.0	<1.0	<1.0	<50
	11-11-93	<0.5	<0.5	<0.5	<0.5	<50
	08-02-93	<0.3	<0.3	<0.3	<0.5	<10
05-11-93	0.4	0.5	<0.3	1.0	<10	
RAO-2	08-02-95	<0.5	<0.5	<0.5	<0.5	<50
	05-05-95	<0.5	<0.5	<0.5	<0.5	<50
	02-03-95	<0.5	<0.5	<0.5	<0.5	<50
	11-18-94	<1.0	<1.0	<1.0	<1.0	<50
	08-12-94	<1.0	<1.0	<1.0	<1.0	<50
	04-28-94	<1.0	<1.0	<1.0	<1.0	<50
	01-29-94	<1.0	<1.0	<1.0	<1.0	<50
	11-11-93	<0.5	<0.5	<0.5	<0.5	<50
	08-02-93	<0.3	<0.3	<0.3	<0.5	<10
05-11-93	0.4	1.0	<0.3	1.0	56	
RAO-4	08-02-95	<0.5	<0.5	<0.5	<0.5	<50
	05-05-95	<0.5	<0.5	<0.5	<0.5	<50
	02-03-95	<0.5	<0.5	<0.5	<0.5	<50
	11-18-94	<1.0	<1.0	<1.0	<1.0	<50
	08-12-94	<1.0	<1.0	<1.0	<1.0	<50
	04-28-94	<1.0	<1.0	<1.0	<1.0	<50
	01-29-94	<1.0	<1.0	<1.0	<1.0	<50
	11-11-93	<0.5	<0.5	<0.5	<0.5	<50
	08-02-93	<0.3	<0.3	<0.3	<0.5	<10
05-11-93	<0.3	<0.3	<0.3	<0.5	<10	

Table 3

Chemical Analyses of Groundwater (Former Dispenser and Mop Oil UST Area)

Sample Location	Sampling Date	Parameter (ug/L)				
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH-D
MW-4	08-02-95	-ND	-ND	-ND	-ND	180
	05-05-95	-	-	-	-	500
MW-5	08-02-95	<0.5	<0.5	<0.5	<0.5	380
	05-05-95	<0.5	<0.5	<0.5	<0.5	1,100

Section 3

PRODUCT RECOVERY ACTIVITIES

During groundwater monitoring activities conducted from March 1990, through November 1992, the presence of a free-product layer was identified in monitoring well RAO-3, located within the former diesel fuel UST excavation area. In December 1992, a product recovery system, consisting of a removable canister (a buoy sheathed by a semi-permeable hydrophobic membrane atop a product storage sump) was installed in monitoring well RAO-3. During the period from December 1992 through May 1995, approximately 6,202-mL of free-product was recovered, however, product recovery activities conducted in June, July, and August 1995, did not result in the recovery of any additional free product. A summary of the product recovery operations is presented in Appendix D.

APPENDIX A
GROUNDWATER SAMPLE COLLECTION DATA

GROUNDWATER SAMPLING INFORMATION

JOB NAME & DATE ARA-OAKLAND 8/2/95

Monitoring Well Location	DTW (ft)	Well Elevation Above MSL (ft)	GW Elevation Above MSL (ft)	Comments
RAO-1	8.07	19.08	11.01	
RAO-2	7.98	19.57	11.59	
RAO-4	8.35	19.30	10.95	
MW-4	9.91	22.69	12.78	
MW-5	8.77	21.09	12.32	

APPENDIX B
LABORATORY REPORT



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (415) 486-0900

ANALYTICAL REPORT

Prepared for:

RMT, Inc.
4640 Admiralty Way
Suite 301
Marina Del Rey, CA 90292

Date: 18-AUG-95
Lab Job Number: 121995
Project ID: N/A
Location: ARAMARK-Oakland

Reviewed by: _____

Reviewed by: _____

This package may be reproduced only in its entirety.



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 121995
CLIENT: RMT, INC.
LOCATION: ARAMARK-OAKLAND

DATE SAMPLED: 08/02/95
DATE RECEIVED: 08/02/95
DATE EXTRACTED: 08/10/95
DATE ANALYZED: 08/17/95
DATE REPORTED: 08/18/95
BATCH NO: 22542

Extractable Petroleum Hydrocarbons in Aqueous Solutions
California DOHS Method
LUFT Manual October 1989

LAB ID	CLIENT ID	DIESEL RANGE (ug/L)	REPORTING LIMIT (ug/L)
121995-001	RAO-1	ND	50
121995-002	RAO-2	ND	50
121995-003	RAO-4	ND	50
121995-004	MW-4	180*	50
121995-005	MW-5	380*	50
METHOD BLANK	N/A	ND	50

ND = Not detected at or above reporting limit.

* Sample chromatogram does not resemble hydrocarbon standard.

QA/QC SUMMARY:

LCS RECOVERY, %	118
-----------------	-----



Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 121995
CLIENT: RMT, . INC.
LOCATION: ARAMARK-OAKLAND

DATE SAMPLED: 08/02/95
DATE RECEIVED: 08/02/95
DATE ANALYZED: 08/03-04/95
DATE REPORTED: 08/18/95
BATCH NO: 22389

Benzene, Toluene, Ethyl Benzene, Xylenes by EPA 8020
Extraction by EPA 5030 Purge and Trap

LAB ID	CLIENT ID	BENZENE (ug/L)	TOLUENE (ug/L)	ETHYL BENZENE (ug/L)	TOTAL XYLENES (ug/L)	REPORTING LIMIT (ug/L)
121995-001	RAO-1	ND	ND	ND	ND	0.5
121995-002	RAO-2	ND	ND	ND	ND	0.5
121995-003	RAO-4	ND	ND	ND	ND	0.5
121995-004	MW-4	ND	ND	ND	ND	0.5
121995-005	MW-5	ND	ND	ND	ND	0.5
121995-006	BLANK	ND	ND	ND	ND	0.5
METHOD BLANK	N/A	ND	ND	ND	ND	0.5

ND = Not detected at or above reporting limit.

QA/QC SUMMARY: MS/MSD OF SAMPLE NO:121273-002

RPD, %	5
RECOVERY, %	101



LABORATORIES

F-268 (R2/92)
(Use Black Ink Only)

121995

Madison, WI 53717
744 Heartland Trail
Phone (608) 831-4444
FAX (608) 831-7530

Fox Valley, WI
Columbus, OH
Milwaukee, WI

Nashville, TN
Greenville, SC

Augusta, GA
Lansing, MI

Chicago, IL
Los Angeles, CA

Cincinnati, OH
Madison, WI

CHAIN OF CUSTODY RECORD

No 051593

Bottles Prepared by _____ Date/Time 8/2/95

Project No _____ Client Aramark - Oakland

Lab No	Yr	Date	Time	Sample Station ID	Total Number Of Containers
-1	95	8/2		RAO-1	4
-2				RAO-2	4
-3				RAO-4	4
-4				MW-4	4
-5				MW-5	4
-6				BLANK	3

Container Inventory	Filtered (Yes/No)	Preserved (Code)	Comments:
8015 - DIESEL			Code: A - None B - HNO3 C - H2SO4 D - NaOH E - HCl F - _____ STANDARD TURNAROUND FAX RESULTS TO TARIQ AHMAD 310 - 821 - 3280
8020 - BTEX			
MATRIX			WATER

SAMPLER Relinquished by (Sig)	Date/Time	Received by (Sig.)	Date/Time
① <u>T. Ahmad</u>	<u>8/2/95 1:15</u>	<u>[Signature]</u>	<u>8/2/95 1:15</u>
②		③	
③		④	
④		⑤	
⑤		⑥	

HAZARDS ASSOCIATED WITH SAMPLES
(For Lab Use Only)
Receipt Temp <u>4°C</u>
Receipt pH _____

Custody Seal Present/Absent Seal Intact/Not Intact Seal #'s

APPENDIX C

WASTE DISPOSAL MANIFESTS

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR

EPA I.D. NO. **NOT REQUIRED**

NAME GRANARY SERVICES, INC.

ADDRESS 1827 WALDEN OFFICE SQUARE/ SITE: 330 CHESTNUT ST

CITY, STATE, ZIP SCHAUMBURG, IL. 60173/ OAKLAND, CA PHONE NO. 608 592-3222

CONTAINERS: No. 1 VOLUME 30 GAL WEIGHT 250 LBS

TYPE: TANK TRUCK DUMP TRUCK DRUMS CARTONS OTHER

WASTE DESCRIPTION NON-HAZARDOUS WATER GENERATING PROCESS SITE INVESTIGATION

WASTE DESCRIPTION		PPM	%	GENERATING PROCESS		PPM	%
COMPONENTS OF WASTE				COMPONENTS OF WASTE			
1.	<u>WATER</u>		<u>99-100</u>	5.			
2.	<u>TDH</u>		<u>1</u>	6.			
3.				7.			
4.				8.	<u>JOB # TDH069</u>		

PROPERTIES: pH 7 SOLID LIQUID SLUDGE SLURRY OTHER

HANDLING INSTRUCTIONS: USE APPROPRIATE SAFETY GEAR WHEN HANDLING.

THE GENERATOR CERTIFIES THAT THE WASTE AS DESCRIBED IS 100% NON-HAZARDOUS.

Robert Robbins TYPED OR PRINTED FULL NAME & SIGNATURE DATE 5/19/95

TRANSPORTER

EPA I.D. NO. CAD000048934

NAME WILSON DISPOSAL SERVICE, INC. NIETO & SONS

ADDRESS 2531 EAST 5TH STREET 1281 BREA CYN RD SERVICE ORDER NO. _____

CITY, STATE, ZIP LONG BEACH, CALIFORNIA 90805 / BREA CA 92621 PICK UP DATE 5/6/95

PHONE NO. (714) 990-6855 (310) 633-4402 RICHARD LUCERO DATE 5-19-95

TRUCK, UNIT, I.D. NO. 5481 #209 DENNIS BARRICA TYPED OR PRINTED FULL NAME & SIGNATURE DATE 5/6/95

TSD FACILITY

EPA I.D. NO. CAT080013352

NAME DOMENICO KERDOON

ADDRESS 1022 S. ELMENA STREET LANDFILL OTHER RECYCLED

CITY, STATE, ZIP CONTON, CA 92822

PHONE NO. _____ Robert Robbins TYPED OR PRINTED FULL NAME & SIGNATURE DATE 5/19/95

Copies to:
Pat Smith/RMT
Bob Robbins
File: 516 Facility

GEN	OLD NEW	L	A	TONS
TRANS		S	B	
CC		RT CO	HWDF	NONE

DISCREPANCY

APPENDIX D

PRODUCT RECOVERY OBSERVATIONS

Appendix D

Product Recovery Observations

Sampling Date	Volume of Product Removed (mL)	Volume of Water Removed (mL)	Depth to Product (ft-bgs)	Depth to Water (ft-bgs)	Thickness of Product (ft)
12-03-92	0	20	8.65	8.67	0.02
12-04-92	0	0	8.61	8.63	0.02
12-08-92	18	0	8.52	8.52	0.00
12-09-92	10	0	8.24	8.24	0.00
12-10-92	0	3	8.02	8.02	0.00
12-14-92	30	200	8.28	8.29	0.01
12-15-92	0	0	8.32	8.32	0.00
12-16-92	0	0	8.52	8.52	0.00
12-18-92	18	0	8.63	8.66	0.03
12-21-92	10	0	8.39	8.42	0.03
12-22-92	20	30	8.56	8.58	0.02
12-23-92	18	0	8.35	8.37	0.02
12-24-92	22	0	8.42	8.53	0.11
12-28-92	15	0	8.53	8.64	0.01
12-29-92	20	0	8.58	8.60	0.02
12-30-92	18	0	8.22	8.24	0.02
01-04-93	23	18	8.45	8.47	0.02
01-05-93	12	0	8.28	8.30	0.02
01-06-93	10	0	8.05	8.48	0.43
01-07-93	8	0	8.64	8.66	0.02
01-08-93	3	10	8.36	8.37	0.01
01-11-93	8	0	8.02	8.16	0.14
01-12-93	13	8	7.68	8.06	0.38
01-13-93	45	0	7.64	8.04	0.40
01-14-93	40	0	8.00	8.32	0.32
01-15-93	40	0	7.98	8.30	0.32
01-18-93	48	0	8.00	8.11	0.11
01-19-93	50	0	8.00	8.22	0.22
01-20-93	44	0	8.00	8.02	0.02
01-21-93	5	40	7.84	8.00	0.16
01-22-93	450	42	7.74	7.98	0.24
02-04-93	25	500	7.99	8.45	0.46
03-25-93	380	70	8.11	8.20	0.09
04-09-93	500	18	8.11	8.20	0.09
04-23-93	210	60	7.49	7.51	0.02
05-03-93	560	90	8.54	8.58	0.04
05-11-93	38	114	8.35	8.45	0.10
05-20-93	1	0	8.39	8.42	0.03
06-02-93	5	65	8.37	8.41	0.04
06-18-93	100	0	8.46	8.57	0.14
07-09-93	150	0	8.20	8.25	0.05
11-11-93	40	80	7.98	7.91	0.07
12-10-93	20	25	8.62	8.59	0.03

Product Recovery Observations

Sampling Date	Volume of Product Removed (mL)	Volume of Water Removed (mL)	Depth to Product (ft-bgs)	Depth to Water (ft-bgs)	Thickness of Product (ft)
01-29-94	0	0	8.76	8.76	0.00
03-10-94	0	0	8.63	8.63	0.00
05-03-94	1,976	658	8.93	9.15	0.22
06-17-94	6	565	8.85	8.85	0.00
06-21-94	1	540	8.50	8.52	0.02
06-28-94	5	400	8.69	8.71	0.01
07-08-94	26	500	8.61	8.61	0.00
07-14-94	0	400	8.73	8.73	0.00
07-20-94	20	500	8.60	8.62	0.02
07-26-94	60	560	8.68	8.71	0.03
08-02-94	21	500	8.46	8.50	0.04
08-12-94	30	640	7.74	7.79	0.05
08-18-94	0	550	9.24	9.24	0.00
08-25-94	0	550	8.78	8.78	0.00
08-31-94	0	550	8.74	8.74	0.00
09-09-94	150	375	7.74	7.76	0.02
09-15-94	0	525	8.93	8.93	0.00
09-22-94	5	305	8.97	8.99	0.02
09-30-94	0	420	8.86	8.86	0.00
10-07-94	0	550	8.74	8.74	0.00
10-14-94	0	520	8.80	8.80	0.00
10-21-94	0	520	8.88	8.88	0.00
10-28-94	0	525	8.90	8.90	0.00
11-04-94	0	550	8.00	8.00	0.00
11-09-94	0	520	7.99	7.99	0.00
11-18-94	80	430	8.05	8.15	0.10
11-25-94	130	300	8.00	7.99	0.01
11-30-94	30	260	7.94	7.95	0.01
12-09-94	30	480	8.03	8.07	0.04
12-16-94	30	120	7.96	7.99	0.03
12-22-94	20	500	8.06	8.09	0.03
12-29-94	80	360	7.71	7.73	0.02
01-06-95	25	500	7.57	7.60	0.03
01-13-95	50	70	7.55	7.54	0.01
01-20-95	5	510	7.53	7.54	0.01
01-26-95	30	500	7.38	7.41	0.03
01-31-95	30	320	7.47	7.48	0.01
02-09-95	20	210	7.63	7.63	0.00
02-14-95	20	175	7.62	7.64	0.02
02-24-95	30	310	7.85	7.89	0.04
03-03-95	20	340	7.75	7.78	0.03
03-09-95	30	510	7.31	7.34	0.03
03-17-95	10	510	7.28	7.29	0.01
03-24-95	15	485	7.23	7.24	0.01
03-31-95	15	475	7.47	7.48	0.01

Product Recovery Observations

Sampling Date	Volume of Product Removed (mL)	Volume of Water Removed (mL)	Depth to Product (ft-bgs)	Depth to Water (ft-bgs)	Thickness of Product (ft)
04-07-95	35	285	7.61	7.62	0.01
04-14-95	20	280	7.68	7.69	0.01
04-21-95	20	290	7.75	7.73	0.02
04-28-95	40	420	7.65	7.68	0.03
05-06-95	20	360	7.70	7.71	0.01
05-12-95	20	390	7.70	7.70	0.00
05-19-95	10	370	7.90	7.90	0.00
05-26-95	10	380	7.80	7.80	0.00
06-02-95	0	240	7.86	7.86	0.00
06-09-95	0	330	7.80	7.80	0.00
06-16-95	0	170	7.87	7.87	0.00
06-23-95	0	300	7.99	7.99	0.00
06-30-95	0	300	7.88	7.88	0.00
07-07-95	0	280	7.82	7.82	0.00
07-14-95	0	290	7.86	7.86	0.00
07-21-95	0	540	7.90	7.90	0.00
07-28-95	0	500	7.92	7.92	0.00
08-04-95	0	480	7.86	7.86	0.00
08-11-95	0	530	7.88	7.88	0.00
08-18-95	0	520	7.86	7.86	0.00
08-25-95	0	500	7.90	7.90	0.00
Total to Date	6,202				