

ENVIRONMENTAL  
PROTECTION

**R. E. NAHAS COMPANY** *Since 1947*

REAL ESTATE DEVELOPERS AND INVESTORS

00 APR 18 AM 10:11

20630 PATIO DRIVE  
CASTRO VALLEY, CALIFORNIA 94546  
TELEPHONE (510) 538-9600  
FAX (510) 881-7618

April 13, 2000

Mr. Scott Seery  
Hazardous Materials Specialist  
Alameda County Health Care Services  
1131 Harbor Bay Pkwy., Room 250  
Oakland, CA 94502-6577

Dear Scott:

Enclosed is the Soil Remediation Closure Report prepared by LifeSprings. I hope, I hope, I hope this meets with your approval and we can be done with this stuff. Not that I haven't enjoyed working with you, but we can do lunch.

Let me know if there is anything else we need to do.

Sincerely,

  
Randall E. Nahas

Enclosure  
REN/tar

**TECHNICAL REPORT**  
**SOIL REMEDIATION CLOSURE REPORT**

**UNDERGROUND FUEL TANK SITE**  
**R.T. NAHAS COMPANY PROPERTY**  
(Formerly Frank Tien Unocal 76 Service Station)  
20405 Redwood Road  
Castro Valley, California 94546

For

R. T. Nahas Company

Prepared By:

Kenneth L. Meleen, P.E.

*Life Springs Environmental, Inc.*

Project Number 98041.2

April 5, 2000

# TABLE OF CONTENTS

	<u>Page Number</u>
REMEDIATION WORK PERFORMED .....	1
Soil Remediation .....	1
Waste Oil Tank and Sump Pit Re-Excavation .....	1
SUPPLEMENTAL CLOSURE WORK PERFORMED .....	2
Supplemental Sampling .....	2
Supplemental Soil Analysis .....	2
Impacted Soil Disposal .....	3
Pit Bottom Sampling .....	3
Final Site Grading .....	3
Monitoring Wells .....	3
DISCUSSION .....	4
Figure 1	REGIONAL MAP
Figure 2	SITE PLAN
Appendix A	Scott Seery (ACEHS) letter of November 2, 1999
Appendix B	COC and Analytical Results for October 27, 1999 Soil Samples
Appendix C	Disposal Request Letter and Waste Evaluation Request, and Non-Hazardous Waste Manifests and Landfill Weigh Tags (Soil)
Appendix D	COC and Analytical Results for December 13, 1999 Soil Samples
Appendix E	Monitoring Well Closure Permit No. 99WR702

**Life  
Springs  
Environmental, Inc.**

3275 Stevens Creek Blvd., #208, San Jose, CA 95117

ENVIRONMENTAL CONSULTING ENGINEERS  
General Engineering Contractor's License No. 709780

408-243-9292  
FAX 408-243-9696

April 5, 2000

Mr. Randall E. Nahas  
R.T. Nahas Company  
20630 Patio Drive  
Castro Valley, CA 94546

Regarding: Soil Remediation Closure Report  
R.T. Nahas Property, Castro Valley

Dear Mr. Nahas:

This report summarizes closure activities performed in the last three months of 1999, at the former Tien Unocal Station, 20405 Redwood Road, Castro Valley. As you are aware, the underground fuel storage tanks (UST's) were removed from this site in November 1998. After the 1998-'99 winter, we proceeded to remediate soil impacted with petroleum hydrocarbons, and completed all site closure activities in December 1999. This report presents a summary of this final closure activity, and presents documentation of the work performed.

A **Regional Map, Figure 1**, which shows the site location with respect to nearby streets and the I-580 Freeway, and a **Site Plan, Figure 2**, showing previously existing site features, are attached.

## **REMEDIATION WORK PERFORMED**

### Soil Remediation

Beginning in April, 1999, impacted soil from the main UST excavation was laid out in shallow beds, and periodically rototilled. This material was re-stockpiled in August 1999 and the stockpiles were analyzed for Total Petroleum Hydrocarbons as Gasoline (TPHG), the gasoline additives Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX compounds), for Methyl tert-Butyl Ether (MTBE) and for Total Petroleum Hydrocarbons as Diesel (TPHD). Analytical results were forwarded to Mr. Scott Seery of the Alameda County Environmental Health Services (ACEHS) in a report dated October 26, 1999. In a November 2, 1999 letter, Mr. Seery approved re-use of this remediated soil. A copy of Mr. Seery's November 2, 1999 letter is presented in **Appendix A**.

### Waste Oil Tank and Sump Pit Re-Excavation

Winter weather considerations led us to replace impacted soil in the excavations for the Waste Oil UST and the Clarifier Sump, in November 1998. These areas also were covered with visqueen to minimize surface water flow into the loosely backfilled pits.

In May 1999 these pits were re-excavated; the impacted soil was placed on visqueen and covered with visqueen. The excavation was extended slightly deeper than the original excavation; soil samples were obtained and analyzed for TPHD and Total Oil and Grease (TOG). These stockpiles also were sampled and analyzed, in preparation for disposal of this impacted soil to a permitted landfill. Analytical results indicated residual traces of TPHD and TOG. These results were discussed with Scott Seery of the Alameda County Environmental Health Services (ACEHS), who indicated minimal concern over low levels of TPHD and TOG, but recommended sampling at deeper levels and analysis for Chlorinated Hydrocarbons (CL HC's). Re-sampling was performed, and results submitted to Mr. Seery in an August 17, 1999 report.

## **SUPPLEMENTAL CLOSURE WORK PERFORMED**

### Supplemental Sampling

Attempting to find the "bottom" of the contaminated zone, the Waste Oil UST pit was resampled in September. Results indicated only trace levels of TPHD and no CL HC's.

Also in September, the remediated soil stockpiles were sampled and analyzed. TPHD was detected in each stockpile at concentrations ranging from 3.3 to 8.0 mg/Kg (parts per million - ppm). Discussion with Mr. Seery indicated these trace levels were not of concern. A second Soil Remediation Status Report dated October 26, 1999 was submitted to Mr. Seery. This resulted in his letter dated November 2, 1999, with the following comments:

- \* Permission to re-use the remediated soil was granted
- \* Acknowledgement as appropriate, the disposal of soil re-excavated from the Waste Oil UST and Sump Pits, at a permitted landfill
- \* Permission granted to destroy monitoring well MW-4, and repair MW-2 and MW-101
- \* Reinstatement of groundwater monitoring was requested on a semi-annual frequency

### Supplemental Soil Analysis

In anticipation of disposing stockpiled soil from the Waste Oil UST and Sump pits, four samples (two from each stockpile) were collected on October 27, 1999. These four samples were composited by the laboratory into one sample for analysis, and analyzed for TPHG/BTEX, TPHD and TOG. In addition, a sample was collected from 9.5-feet below grade in the Sump pit, in an attempt to determine the depth of excavation needed to get through all impacted soil. Analysis of this sump sample indicated that at the 9.5-foot depth, the soil was still slightly impacted with TPHG (71 mg/Kg), TPHD (270 mg/Kg) and TOG (220 mg/Kg). Although these results were not of concern to Mr. Seery, they indicated the Sump excavation should be carried slightly deeper than 9.5 feet. These analytical results and the Chain of Custody document are presented in **Appendix B**.

### Impacted Soil Disposal

Results for the samples collected October 27, 1999, along with results of sample analyses performed earlier in the year and a Waste Evaluation Request, were submitted to BFI - Vasco Road Sanitary Landfill. Copies of the submittal letter and Waste Evaluation Request (excluding the analytical results attachment) are presented in Appendix C. On November 18, 1999, Ms. Judy Erlandson of BFI provided us with Waste Disposal Approval Code No. CA405-111999-02346.

On December 13, 1999 soil from the Waste Oil UST and Sump stockpiles was transported and disposed at the BFI Vasco Road Landfill in Livermore. In addition to the stockpiled material, the Waste Oil UST pit was deepened to 10-feet, and the Sump pit was deepened to 14-feet in an attempt to remove most of the impacted soil. This soil from deeper in the respective pit excavations also was transported and disposed at the BFI landfill. Total quantity of soil disposed at the BFI landfill was 36.1 tons. Copies of the Non-Hazardous Waste Manifests and the landfill Weigh Tags are included in Appendix C.

36.1 tons  
soil to  
BFI

### Pit Bottom Sampling

After completing excavation to the deeper levels, soil samples were collected from about 1-foot below the bottom of the deepened excavations, and analyzed for TPHG/BTEX, TPHD and TOG. The sample from 11-feet in the Waste Oil Pit had no detectable TPHG, BTEX compounds, TPHD or TOG. In the 15-foot deep Sump sample, TPHG was detected at 6.3 mg/Kg, Ethyl Benzene at 0.14 mg/Kg and Xylenes at 0.25 mg/Kg; TPHD was detected at 690 mg/Kg, and TOG at 1,200 mg/Kg. These findings were discussed with Mr. Seery, who responded that these concentrations (particularly of the long chain hydrocarbons - TPHD and TOG) were inconsequential and would not adversely impact a case closure decision. The COC and analytical results for the December 13, 1999 sampling episode are presented in Appendix D.

### Final Site Grading

The Waste Oil Pit and Sump excavations were backfilled with remediated soil. The soil was placed in layers and compacted by rolling with a sheepsfoot roller attached to the backhoe. The shallow depression remaining at the former main UST excavation was backfilled with imported granular soil, with compaction performed as described above.

During backfilling, a representative of BSK & Associates was on site to perform relative compaction measurements using a nuclear gauge. This was to verify backfill compaction to 90 percent of the maximum test value determined by ASTM Test Method D1557. A copy of the BSK & Associates Summary Report is presented in Appendix E.

### Monitoring Wells

A permit application to close MW-4 was submitted to the Alameda County Public Works Department. MW-4 was closed December 23, 1999 by drilling out the original soil boring, and backfilling it with bentonite-cement slurry placed by tremie. The surface enclosures of MW-2 and MW-101 were replaced, as the original enclosures had been damaged during UST removal. A copy of the Monitoring Well Closure Permit No. 99WR702 is presented in Appendix F.

## DISCUSSION

The most recent Waste Oil UST pit bottom (11-feet) sampling and analysis confirms the absence of TPHG/BTEX, TPHD and TOG. Contrarily, sampling below the former Sump (15-feet) indicates a moderate accumulation of long chain hydrocarbons (TPHD and TOG). These results have been discussed with, and determined to be inconsequential by, Mr. Scott Seery of the ACEHS.

The preparation of this report describing final closure activities for this former service station site completes our UST removal and site remediation activities. Any questions regarding this report or the activities performed on this site should be addressed to the undersigned.

Report prepared by,

*Life Springs Environmental, Inc.*

Kenneth L. Meleen  
Licensed Civil Engineer No. C 17487  
License Expires 6/30/2001

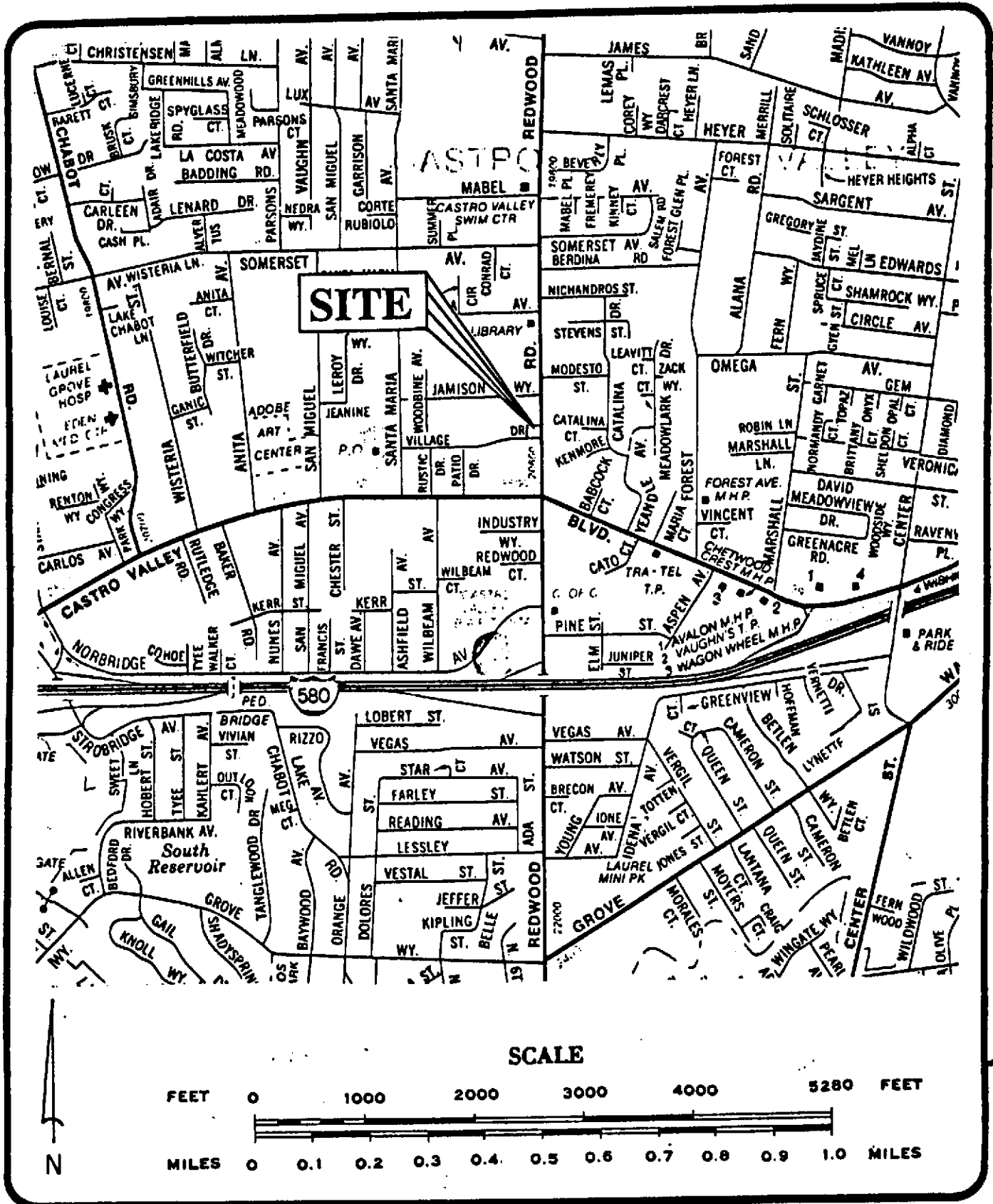


# FIGURES

FIGURE 1. REGIONAL MAP

FIGURE 2. SITE PLAN

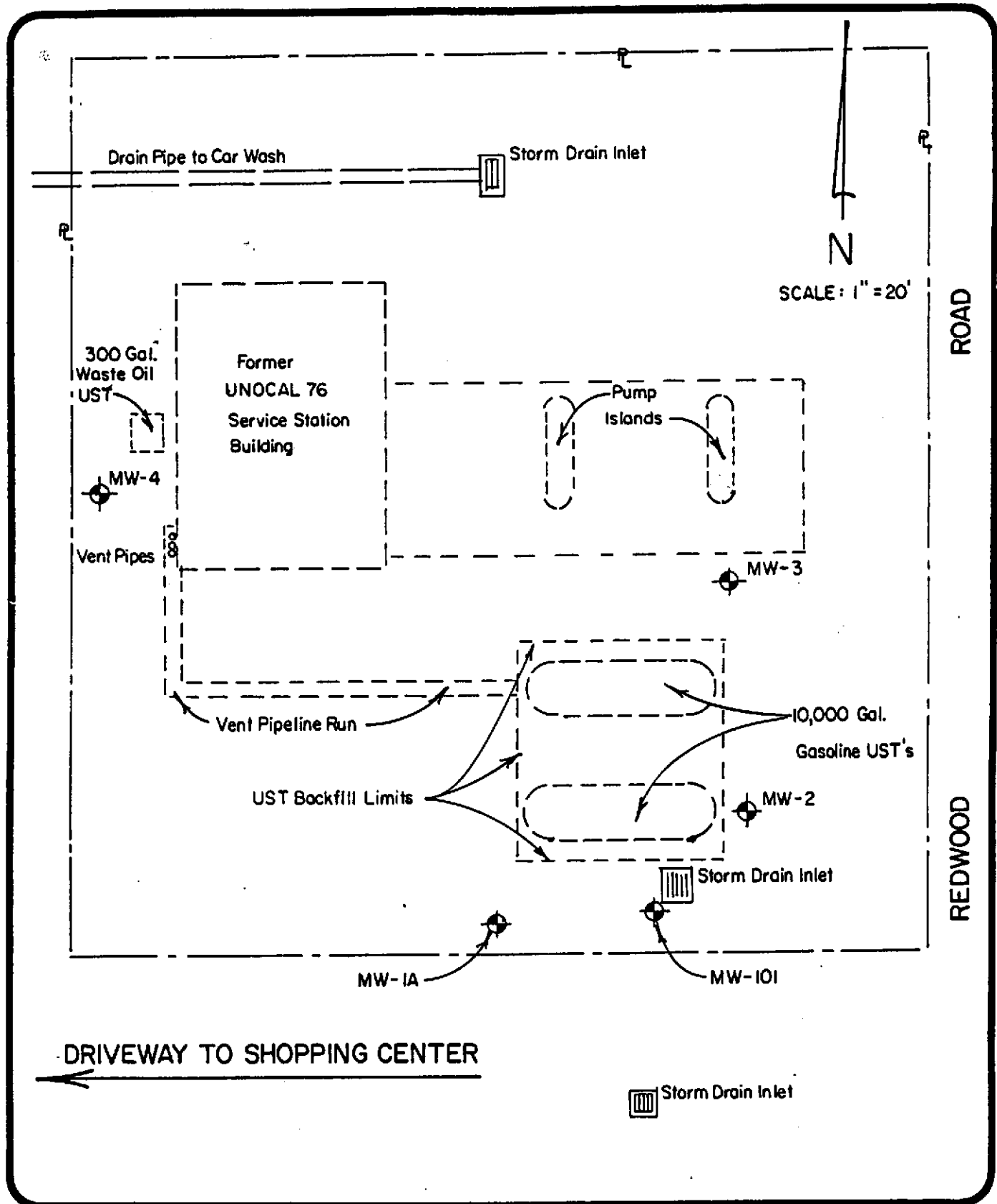




*Life  
Springs  
Environmental, Inc.*

**REGIONAL MAP**  
**R.T. NAHAS COMPANY UST SITE**  
 20405 Redwood Road  
 Castro Valley, California

Figure No.  
 1  
 98041.2  
 Project No.



Life  
Springs  
Environmental, Inc.

**SITE PLAN**  
**R.T. NAHAS COMPANY UST SITE**  
 20405 Redwood Road  
 Castro Valley, California

Figure No.  
2  
 98041.2  
 Project No.

# **APPENDIX A**

**ALAMEDA COUNTY ENVIRONMENTAL HEALTH  
SERVICES LETTER OF NOVEMBER 2, 1999  
(Scott Seery)**

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
(510) 337-9335 (FAX)

November 2, 1999

STID 650

Mr. Randy Nahas  
R.T. Nahas Company  
20630 Patio Drive  
Castro Valley, CA 94546

RE: (FORMER) TIEN'S UNOCAL, 20405 REDWOOD ROAD, CASTRO VALLEY

Dear Mr. Nahas:

I have completed review of the August 17 and October 26, 1999 Life Springs Environmental, Inc. ("Life Springs") status reports for the latest stages of site restoration, sampling, and soil remediation associated with the subject site. The work documented in the Life Springs reports stems from the November 1998 removals of three underground storage tanks (UST) from the site.

Life Springs reports that final samples were collected from the three fuel UST stockpiles, a reported total of ~175 yds<sup>3</sup>, in September of this year following several months of actively-managed on-site aeration. Final stockpile samples were analyzed for the presence of fuel compounds. Life Springs reports that only a maximum of 8.0 mg/kg of total petroleum hydrocarbons as diesel fuel (TPH-D) were detected in these stockpile samples. All other target analytes were below laboratory detection limits.

The fuel UST stockpiles are proposed for reuse to complete restoration of the site. This use is acceptable based on data presented in the cited Life Springs reports.

Life Spring also reports that all soil excavated from the waste oil UST pit and beneath the separator sump will be transported as non-hazardous waste to the BFI Vasco Road Landfill in Livermore. This destination is appropriate based on the type and concentration of compounds (e.g., lead, PNA's) remaining in those stockpiles.

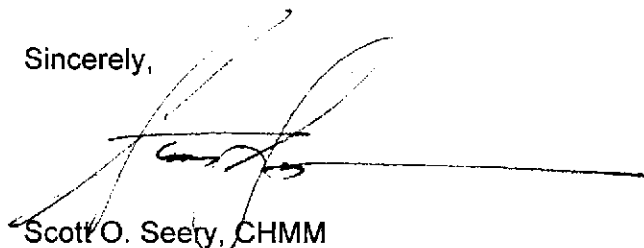
In response to a request from Mr. Ken Meleen (Life Springs), permission is granted for the permanent destruction of well MW-4. You may recall that correspondence from this office dated March 9, 1998 granted prior approval for the destruction of this and several others of the on-site wells in anticipation of extensive over-excavation associated with the (then) pending UST closures. Such extensive over-excavation did not occur, nor were any of the noted wells removed, although I understand that at least two were damaged and will require repair.

Mr. Nahas  
RE: 20405 Redwood Road, Castro Valley  
November 2, 1999  
Page 2 of 2

Finally, please reinstate a semi-annual schedule of well sampling, monitoring, and reporting. You are requested to initiate this effort during the first quarter of 2000, adhering to a 1<sup>st</sup> and 3<sup>rd</sup> quarter schedule. The initial sampling event is also to include off-site wells MW-5, -6, and -7. Target analytes shall continue to be the entire gasoline suite – TPH-gas, BTEX, and MtBE. Any “tentative” detection of MtBE shall be followed by confirmation using EPA Method 8260 on the sample showing the highest concentration.

Please call me at (510) 567-6733 should you have any questions about the content of this letter.

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott O. Seery', is written over a horizontal line. The signature is fluid and cursive.

Scott O. Seery, CHMM  
Hazardous Materials Specialist

- c: Chuck Headlee, RWQCB  
Robert Weston, ACDEH  
James deGeorgio, SWRCB (UST Fund)  
Ken Meleen, Life Springs Environmental, Inc.  
3275 Stevens Creek Blvd., #208, San Jose, CA 95117

# **APPENDIX B**

**CHAIN OF CUSTODY DOCUMENT  
and  
ANALYTICAL RESULTS  
for  
October 27, 1999 Soil Samples**

**Life Springs Environmental**  
3275 Stevens Creek Blvd., Suite 208  
San Jose, CA 95117-1148

Attn.: Mr. Kenneth Meleen

Project: 98041.2  
R.T. Nahas Co.

Dear Mr. Meleen,

Attached is our report for your samples received on Wednesday October 27, 1999. 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 November 26, 1999 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.

Sincerely,

  
Pierre Monette

Diesel

**Life Springs Environmental**

☒ 3275 Stevens Creek Blvd., Suite 208  
San Jose, CA 95117-1148

Attn: Kenneth Meleen

Phone: (408) 243-9292 Fax: (408) 243-9696

Project #: 98041.2

Project: R.T. Nahas Co.

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
WO/SUMP COMP	Soil	10/27/1999	1
SUMP-9.5	Soil	10/27/1999 14:20	2



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0482

To: Life Springs Environmental

Test Method: 8015m

Attn.: Kenneth Meleen

Prep Method: 3550/8015M

Diesel

Sample ID:	<b>WO/SUMP COMP</b>	Lab Sample ID:	<b>1999-10-0482-001</b>
Project:	98041.2 R.T. Nahas Co.	Received:	10/27/1999 15:30
Sampled:	10/27/1999	Extracted:	11/01/1999 09:00
Matrix:	Soil	QC-Batch:	1999/11/01-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	220	1.0	mg/Kg	1.00	11/02/1999 01:50	ld
<i>Surrogate(s)</i> o-Terphenyl	102.5	60-130	%	1.00	11/02/1999 01:50	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0482

To: **Life Springs Environmental**

Test Method: 8015m

Attn.: Kenneth Meleen

Prep Method: 3550/8015M

Diesel

Sample ID: <b>SUMP-9.5</b>	Lab Sample ID: <b>1999-10-0482-002</b>
Project: 98041.2 R.T. Nahas Co.	Received: 10/27/1999 15:30
Sampled: 10/27/1999 14:20	Extracted: 11/01/1999 09:00
Matrix: Soil	QC-Batch: 1999/11/01-01.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	270	1.0	mg/Kg	1.00	11/02/1999 01:14	,ofp
<b>Surrogate(s)</b> o-Terphenyl	99.6	60-130	%	1.00	11/02/1999 01:14	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

To: **Life Springs Environmental**

Test Method: 8015m

Attn.: Kenneth Meleen

Prep Method: 3550/8015M

### Batch QC Report

Diesel

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/11/01-01.10</b>
MB: 1999/11/01-01.10-001		Date Extracted: 11/01/1999 08:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	11/01/1999 11:39	
<b>Surrogate(s)</b> o-Terphenyl	99.0	60-130	%	11/01/1999 11:39	

To: Life Springs Environmental

Test Method: 8015m

Attn: Kenneth Meleen

Prep Method: 3550/8015M

## Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 1999/11/01-01.10
LCS: 1999/11/01-01.10-002	Extracted: 11/01/1999 08:00	Analyzed: 11/01/1999 10:28
LCSD: 1999/11/01-01.10-003	Extracted: 11/01/1999 08:00	Analyzed: 11/01/1999 11:37

Compound	Conc. [ mg/Kg ]		Exp.Conc. [ mg/Kg ]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Diesel	25.0	29.6	41.7	41.7	60.0	71.0	16.8	60-130	25		
<b>Surrogate(s)</b> o-Terphenyl	18.7	20.1	20.0	20.0	93.5	100.5		60-130			

To: **Life Springs Environmental**

Attn: Kenneth Meleen

Test Method: 8015m

Prep Method: 3550/8015M

## Legend & Notes

Diesel

### Analysis Notes

SUMP-9.5 ( Lab# 1999-10-0482-002 )

ofp= Estimated concentration reported due to overlapping fuel patterns.

### Analyte Flags

ld

Hydrocarbon reported is in the late Diesel range, and does not match our Diesel standard

Gas/BTEX and MTBE

<b>Life Springs Environmental</b>	<input checked="" type="checkbox"/> 3275 Stevens Creek Blvd., Suite 208 San Jose, CA 95117-1148
Attn: Kenneth Meleen	Phone: (408) 243-9292 Fax: (408) 243-9696
Project #: 98041.2	Project: R.T. Nahas Co.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
WO/SUMP COMP	Soil	10/27/1999	1

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0482

To: Life Springs Environmental

Test Method: 8020  
8015M

Attn.: Kenneth Meleen

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: <b>WO/SUMP COMP</b>	Lab Sample ID: <b>1999-10-0482-001</b>
Project: 98041.2 R.T. Nahas Co.	Received: 10/27/1999 15:30
Sampled: 10/27/1999	Extracted: 11/01/1999 12:25
Matrix: Soil	QC-Batch: 1999/11/01-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	11/01/1999 12:25	
Benzene	ND	0.0050	mg/Kg	1.00	11/01/1999 12:25	
Toluene	ND	0.0050	mg/Kg	1.00	11/01/1999 12:25	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	11/01/1999 12:25	
Xylene(s)	ND	0.0050	mg/Kg	1.00	11/01/1999 12:25	
MTBE	ND	0.0050	mg/Kg	1.00	11/01/1999 12:25	
<b>Surrogate(s)</b>						
Trifluorotoluene	77.6	53-125	%	1.00	11/01/1999 12:25	
Trifluorotoluene-FID	68.8	53-125	%	1.00	11/01/1999 12:25	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

To: Life Springs Environmental

Test Method: 8020  
8015M

Attn.: Kenneth Meleen

Prep Method: 5030

**Batch QC Report**  
Gas/BTEX and MTBE

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/11/01-01.04</b>
MB: 1999/11/01-01.04-001		Date Extracted: 11/01/1999 06:48

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	11/01/1999 06:48	
Benzene	ND	0.0050	mg/Kg	11/01/1999 06:48	
Toluene	ND	0.0050	mg/Kg	11/01/1999 06:48	
Ethyl benzene	ND	0.0050	mg/Kg	11/01/1999 06:48	
Xylene(s)	ND	0.0050	mg/Kg	11/01/1999 06:48	
MTBE	ND	0.0050	mg/Kg	11/01/1999 06:48	
<b>Surrogate(s)</b>					
Trifluorotoluene	81.2	53-125	%	11/01/1999 06:48	
4-Bromofluorobenzene-FID	78.4	58-124	%	11/01/1999 06:48	



To: **Life Springs Environmental**

Test Method: 8020  
8015M

Attn: Kenneth Meleen

Prep Method: 5030

**Batch QC Report**

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 1999/11/01-01.04	
LCS:	1999/11/01-01.04-002	Extracted:	11/01/1999 07:15	Analyzed:	11/01/1999 07:15
LCSD:	1999/11/01-01.04-003	Extracted:	11/01/1999 07:42	Analyzed:	11/01/1999 07:42

Compound	Conc. [ mg/Kg ]		Exp. Conc. [ mg/Kg ]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.518	0.522	0.500	0.500	103.6	104.4	0.8	75-125	35		
Benzene	0.0974	0.0785	0.1000	0.1000	97.4	78.5	21.5	77-123	35		
Toluene	0.103	0.0832	0.1000	0.1000	103.0	83.2	21.3	78-122	35		
Ethyl benzene	0.104	0.0849	0.1000	0.1000	104.0	84.9	20.2	70-130	35		
Xylene(s)	0.316	0.264	0.300	0.300	105.3	88.0	17.9	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	438	357	500	500	87.6	71.4		53-125			
4-Bromofluorobenzene-FI	429	407	500	500	85.8	81.4		58-124			

Gas/BTEX (Methanol Extraction)

<b>Life Springs Environmental</b>	✉ 3275 Stevens Creek Blvd., Suite 208 San Jose, CA 95117-1148
Attn: Kenneth Meleen	Phone: (408) 243-9292 Fax: (408) 243-9696
Project #: 98041.2	Project: R.T. Nahas Co.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
SUMP-9.5	Soil	10/27/1999 14:20	2

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0482

To: Life Springs Environmental

Test Method: 8020  
8015M

Attn.: Kenneth Meleen

Prep Method: 5030

Gas/BTEX (Methanol Extraction)

Sample ID: <b>SUMP-9.5</b>	Lab Sample ID: <b>1999-10-0482-002</b>
Project: 98041.2 R.T. Nahas Co.	Received: 10/27/1999 15:30
Sampled: 10/27/1999 14:20	Extracted: 11/01/1999 19:32
Matrix: Soil	QC-Batch: 1999/11/01-06.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	71	10	mg/Kg	1.00	11/01/1999 19:32	g
Benzene	ND	0.62	mg/Kg	1.00	11/01/1999 19:32	
Toluene	ND	0.62	mg/Kg	1.00	11/01/1999 19:32	
Ethyl benzene	ND	0.62	mg/Kg	1.00	11/01/1999 19:32	
Xylene(s)	ND	0.62	mg/Kg	1.00	11/01/1999 19:32	
MTBE	ND	0.62	mg/Kg	1.00	11/01/1999 19:32	
<b>Surrogate(s)</b>						
Trifluorotoluene	83.0	53-125	%	.00	11/01/1999 19:32	
4-Bromofluorobenzene-FID	118.6	58-124	%	.00	11/01/1999 19:32	

To: Life Springs Environmental

Test Method: 8020  
8015M

Attn.: Kenneth Meleen

Prep Method: 5030

**Batch QC Report**  
Gas/BTEX (Methanol Extraction)

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/11/01-06.01</b>
MB: 1999/11/01-06.01-001		Date Extracted: 11/01/1999 15:45

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	10	mg/Kg	11/01/1999 15:45	
Benzene	ND	0.62	mg/Kg	11/01/1999 15:45	
Toluene	ND	0.62	mg/Kg	11/01/1999 15:45	
Ethyl benzene	ND	0.62	mg/Kg	11/01/1999 15:45	
Xylene(s)	ND	0.62	mg/Kg	11/01/1999 15:45	
MTBE	ND	0.62	mg/Kg	11/01/1999 15:45	
<b>Surrogate(s)</b>					
Trifluorotoluene	81.8	53-125	%	11/01/1999 15:45	
4-Bromofluorobenzene-FID	74.2	58-124	%	11/01/1999 15:45	

To: Life Springs Environmental

Test Method: 8020  
8015M

Attn: Kenneth Meleen

Prep Method: 5030

## Batch QC Report

Gas/BTEX (Methanol Extraction)

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 1999/11/01-06.01
LCS: 1999/11/01-06.01-002	Extracted: 11/01/1999 19:27	Analyzed: 11/01/1999 19:27
LCSD: 1999/11/01-06.01-003	Extracted: 11/01/1999 16:42	Analyzed: 11/01/1999 16:42

Compound	Conc. [ mg/Kg ]		Exp.Conc. [ mg/Kg ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.516	0.471	0.625	0.625	82.6	75.4	9.1	75-125	35		
Benzene	0.123	0.116	0.125	0.125	98.4	92.8	5.9	77-123	35		
Toluene	0.130	0.116	0.125	0.125	104.0	92.8	11.4	78-122	35		
Ethyl benzene	0.131	0.109	0.125	0.125	104.8	87.2	18.3	70-130	35		
Xylene(s)	0.414	0.339	0.375	0.375	110.4	90.4	19.9	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	459	457	500	500	91.8	91.4		53-125			
4-Bromofluorobenzene-FI	403	376	500	500	80.6	75.2		58-124			

To: **Life Springs Environmental**

Test Method: 8020  
8015M

Attn: Kenneth Meleen

Prep Method: 5030

## Legend & Notes

Gas/BTEX (Methanol Extraction)

### Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Total Oil & Grease

<b>Life Springs Environmental</b>	✉ 3275 Stevens Creek Blvd., Suite 208 San Jose, CA 95117-1148
Attn: Kenneth Meleen	Phone: (408) 243-9292 Fax: (408) 243-9696
Project #: 98041.2	Project: R.T. Nahas Co.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
WO/SUMP COMP	Soil	10/27/1999	1
SUMP-9.5	Soil	10/27/1999 14:20	2

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0482

To: **Life Springs Environmental**

Attn.: Kenneth Meleen

Test Method: 5520 E

Prep Method: 5520 E

## Total Oil & Grease

Sample ID:	<b>WO/SUMP COMP</b>	Lab Sample ID:	<b>1999-10-0482-001</b>
Project:	98041.2 R.T. Nahas Co.	Received:	10/27/1999 15:30
Sampled:	10/27/1999	Extracted:	10/28/1999
Matrix:	Soil	QC-Batch:	1999/10/28-01.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (total)	400	50	mg/Kg	1.00	10/29/1999	



# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0482

To: **Life Springs Environmental**  
Attn.: Kenneth Meleen

Test Method: 5520 E  
Prep Method: 5520 E

## Total Oil & Grease

Sample ID: <b>SUMP-9.5</b>	Lab Sample ID: <b>1999-10-0482-002</b>
Project: 98041.2 R.T. Nahas Co.	Received: 10/27/1999 15:30
Sampled: 10/27/1999 14:20	Extracted: 10/28/1999
Matrix: Soil	QC-Batch: 1999/10/28-01.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (total)	220	50	mg/Kg	1.00	10/29/1999	

To: Life Springs Environmental

Test Method: 5520 E

Attn.: Kenneth Meleen

Prep Method: 5520 E

**Batch QC Report**

Total Oil & Grease

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/10/28-01.23</b>
MB: 1999/10/28-01.23-001		Date Extracted: 10/28/1999

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	10/29/1999	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-10-0482

To: Life Springs Environmental  
Attn: Kenneth Meleen

Test Method: 5520 E  
Prep Method: 5520 E

## Batch QC Report

Total Oil & Grease

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 1999/10/28-01.23
LCS: 1999/10/28-01.23-002	Extracted: 10/28/1999	Analyzed: 10/29/1999
LCSD: 1999/10/28-01.23-003	Extracted: 10/28/1999	Analyzed: 10/29/1999

Compound	Conc. [ mg/Kg ]		Exp. Conc. [ mg/Kg ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Oil & Grease (total)	406	388	400	400	101.5	97.0	4.5	80-120	20		

# CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1004)

1220 Quarry Lane • Pleasanton, California 94566-4750  
 510/404-1919 • Facsimile 510/404-1098

**99-10-0482**

Reference #: 48759

## Chain of Custody

DATE 10/27/99 PAGE 1 OF 1

### ANALYSIS REPORT

PROJ MGR Kenneth L. Meleen  
 COMPANY Life Springs Environmental, Inc.  
 ADDRESS 3275 Stevens Creek Blvd., #208  
San Jose, CA 95117

SAMPLERS (SIGNATURE) Kenneth L. Meleen (PHONE NO.) (408) 243-9292  
 (FAX NO.) (408) 243-9696

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH (EPA 8015, 8020) A. Gas w/ST BTEX B.M.T.BE	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) Dibenzodioxane, Dibenzofuran, Chl. a, o.	PURGEABLE HALOCARBONS, (BYOCs) (EPA 8016)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	TOTAL OIL AND GREASE ISM 5520 B + F, E + F)	PESTICIDES (EPA 8080) PCB'S (EPA 8060)	PNA's by □ 8270 □ 8310	□ Spec. Cond. □ TSS □ TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 8016/7470/7471)	TOTAL LEAD	□ W.T. (STLC) □ TCLP	□ Re-suspend Chromium □ pB (24 hr hold time for H2O)	NUMBER OF CONTAINERS	
<u>WO/SUMP COMP</u>	<u>10/27/99</u>	<u>1350</u>	<u>Soil</u>	<u>Ice</u>																		1
<u>WO-N</u>		<u>1350</u>																				1
<u>WO-S</u>		<u>1400</u>																				1
<u>SUMP-N</u>		<u>1405</u>			X		X					X										1
<u>SUMP-S</u>		<u>1410</u>																				1
<u>SUMP-9.5</u>	✓	<u>1420</u>	✓	✓	X		X					X										1

PROJECT INFORMATION				SAMPLE RECEIPT			
PROJECT NAME <u>R.T. Nicholas Co.</u>	TOTAL NO. OF CONTAINERS <u>5</u>	HEAD SPACE	TEMPERATURE	CONFORMS TO RECORD			
PROJECT NUMBER <u>98041.2</u>	DATE <u>10/27/99</u>	TEMPERATURE	TEMPERATURE	CONFORMS TO RECORD			
P.O.# <u>LSE-202-99</u>	TAT	STANDARD 5-DAY	34	40	72	OTHER	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Electronic Report				SPECIAL INSTRUCTIONS/COMMENTS: <u>Composite of WO and Sump Samples into one sample for analysis</u>			
				<u>5.6°C</u>			

RELINQUISHED BY 1		RELINQUISHED BY 2		RELINQUISHED BY 3	
<u>Kenneth L. Meleen</u> (SIGNATURE)	<u>10/27/99</u> (DATE)				
<u>Kenneth L. Meleen</u> (PRINTED NAME)	<u>10/27/99</u> (DATE)				
<u>Life Springs Environmental</u> (COMPANY)	<u>Inc.</u> (COMPANY)				
RECEIVED BY 1		RECEIVED BY 2		RECEIVED BY (ALTERNATIVE)	
				<u>Denise Harrington</u> (SIGNATURE)	<u>10/27/99</u> (DATE)
				<u>D. Harrington</u> (PRINTED NAME)	<u>1530</u> (DATE)
				<u>Chromalab</u> (COMPANY)	<u>10/27/99</u> (DATE)

# **APPENDIX C**

**SUBMITTAL LETTER/WASTE EVALUATION REQUEST**

**NON-HAZARDOUS WASTE MANIFESTS**

**and**

**LANDFILL WEIGH TAGS**

**Life  
Springs  
Environmental, Inc.**

3275 Stevens Creek Blvd., #208, San Jose, CA 95117

ENVIRONMENTAL CONSULTING ENGINEERS  
General Engineering Contractor's License No. 709780

408-243-9292  
FAX 408-243-9696

November 11, 1999 .

Ms. Judy Erlandson  
BFI - Vasco Road Sanitary Landfill  
4001 N. Vasco Road  
Livermore, CA 94550

Regarding: Disposal of Soil from former Service Station Site

Dear Ms. Erlandson:

Life Springs Environmental, Inc. is coordinating the cleanup of the former Tien Unocal Service Station site at 20405 Redwood Road in Castro Valley, California. The underground tanks and a clarifier sump were removed in November 1998. The backfill material excavated from the gasoline UST pit has been remediated on site, to the point where the Alameda County Environmental Health Department is allowing re-use of this material for backfill.

Soil excavated from the vicinity of the Waste Oil UST and Sump has been determined to be contaminated with used motor oil (TOG) and petroleum hydrocarbons as diesel (TPHD). We have about 50 cubic yard of this material that we would like to dispose at the BFI Vasco Road Landfill. A Waste Evaluation Request form is enclosed for your review. Additionally, we would like to point out that composite samples of the sump and waste oil excavated material stockpiles have been analyzed on several occasions over the past six months. The following explains the nature and purpose of each sampling and analysis episode, and a synopsis of the results.

May 5, 1999 Sampling Event

After discussion with Judy Erlandson, we sampled the two stockpiles (four discreet samples from each, composited into one sample per stockpile for analysis), and analyzed for Semi-Volatile Organic Compounds (SVOC's - EPA 8270), Volatile Organic Compounds (VOC's - EPA 8260), Total Oil and Grease (TOG - EPA 5520 E&F), and CAM 17 Metals. Both stockpiles had no detectable SVOC's or VOC's. For the Sump Composite, TOG was detected at 270 mg/Kg, and for the Waste Oil Composite, TOG was detected at 140 mg/Kg.

The Sump Composite sample had total lead at 11 mg/Kg which is not a problem, but the Waste Oil Composite sample had total lead at 55 mg/Kg, which is more than 10 times the allowable Soluble Threshold Limit Concentration (STLC). This sample should have been subjected to STLC extraction and analyzed for soluble lead, but this was overlooked. Another subsequent sample was obtained and analyzed for both TTLC and STLC lead (see subsequent discussion of this issue).

August 20, 1999 Sampling Event

A single discrete sample from the Waste Oil Stockpile was analyzed for total and soluble lead. TTLC lead was found at 81 mg/Kg, , and STLC lead was detected at 1.8 mg/L. This latter result was well below the hazardous material designation value of 5.0 mg/L.

October 27, 1999 Sampling Event

After reviewing BFI's Waste Acceptance Guidelines, it was apparent that we hadn't analyzed the soil stockpiles for the typical TPHG/BTEX compounds. Two discrete samples were collected from each stockpile, and composited into one sample for analysis. (Note: A confirmation sample from below the bottom of the Sump also was collected and analyzed in this event.)

There was no detectable TPHG or BTEX compounds in the composited sample. TPHD was detected at 220 mg/Kg, and TOG was detected at 400 mg/Kg.

Copies of the analytical results and the related Chain of Custody documents are enclosed.

We believe the enclosed Waste Evaluation Request and the supporting analytical data provides sufficient information for you to accept this material. Upon receipt of formal acceptance notification, we will schedule transport and disposal of this material.

Please call the undersigned at (408) 243-9292 if you have any questions or comments.

Sincerely,

*Life Springs Environmental, Inc.*

  
Kenneth L. Meleen, P.E.

Enclosures

cc: Randall E. Nahas, R.T. Nahas Company



# BROWNING-FERRIS INDUSTRIES

WCD NO. SZ 49008

\_\_\_\_\_  
BFI WASTE CODE

## WASTE EVALUATION REQUEST

BFI to complete this area.

BFI Initiator: \_\_\_\_\_  
Location: \_\_\_\_\_  
Company Number: \_\_\_\_\_  
Telephone: (     ) \_\_\_\_\_  
Fax: (     ) \_\_\_\_\_  
Date: \_\_\_\_\_

Action Requested:  New Waste Approval  
 Up-Date Approval - Previous Number: \_\_\_\_\_  
Disposal Site Requested: \_\_\_\_\_  
Company Number: \_\_\_\_\_  
Disposal Method Requested:  Working Face  Daily Cover  
 Other: \_\_\_\_\_

## WASTE CHARACTERIZATION DATA Petroleum Contaminated Soils

IMPORTANT: This form is to be used to describe contaminated soils resulting from the release of petroleum products only and is not to be used for hazardous waste or PCB's regulated by a federal or applicable state, provincial or local authority.

INSTRUCTIONS: Information for physical completion of this form must be obtained from an authorized representative of the generator. Please be thorough in your answers. The entire form must be completed, answers must be legibly printed in ink or typewritten, and the completed form must be signed and dated. Please attach any additional relevant information such as analytical data that will help to describe the waste and expedite its review. Use the form only one time since this form has a unique WCD number assigned.

### 1. GENERATOR INFORMATION

a) Generator's Name: R.T. Nahas Company  
b) Generating Facility's Address: 20405 Redwood Road  
City: Castro Valley State: CA Zip: 94546  
c) Generator's Representative: Randall E. Nahas  
Title: President  
Telephone: ( 510 ) 538-9600  
Fax: ( 510 ) 881-7618  
d) Emergency/Information Contact: Kenneth L. Meleen  
Title: Consultant  
Telephone: ( 408 ) 243-9292 or Cell Phone (408) 981-3776

#### Billing Information

e) Customer's Name: Life Springs Environmental, Inc.  
f) Customer's Mailing Address: 3275 Stevens Creek Blvd  
City: San Jose State: CA Zip: 95117 #208  
g) Representative: Kenneth L. Meleen  
Telephone: ( 408 ) 243-9292  
Fax: ( 408 ) 243-9696

### 2. GENERAL WASTE STREAM INFORMATION

a) This waste was generated as a result of: 1)  UST Activity 2)  AST Activity 3)  Spill  
b) Type of facility generating the contaminated soil: Inocal Service Station with underground Fuel Storage tanks, Waste Oil Tank and Oil/Water Separator Sump.  
c) Is this waste subject to the UST corrective action regulations under 40 CFR 280?  Yes  No  
d) Anticipated volume: 50  cubic yards  tons  gallons  cubic meters  tonnes (metric) Other \_\_\_\_\_  
Per:  year  month  week  day  one time  other Several Semi-Truck Loads  
To be transported in:  bulk  drums (type/size) \_\_\_\_\_  Other \_\_\_\_\_  
e) Is this a "Hazardous Waste" as defined by State, Provincial, or local Regulations?  Yes  No  
If yes, enter the Waste Identification Number if one has been assigned: \_\_\_\_\_  
f) Recommended personal protection equipment and special handling procedures: Gloves



BFI WASTE CODE

### 3. THIS WASTE CONTAINS

Does the waste contain any of the following: (Check all that apply) If any are checked, specify type (if applicable) and include its concentration.

- |   |   |
|---|---|
| <input type="checkbox"/> Free Liquids     | <input type="checkbox"/> Etiological Agents                     |
| <input type="checkbox"/> Free Cyanide     | <input type="checkbox"/> Radioactive Materials                  |
| <input type="checkbox"/> Free Sulfide     | <input type="checkbox"/> PCB'S not regulated by TSCA 40 CFR 761 |
| <input type="checkbox"/> Organic Solvents | <input checked="" type="checkbox"/> None of the Above           |
| <input type="checkbox"/> OSHA Substances  |   |

Type and concentration \_\_\_\_\_

### 4. SPECIAL WASTE COMPOSITION

Description of the waste:

- Soil contaminated with leaded gasoline
- Soil contaminated with unleaded gasoline
- Soil contaminated with diesel fuel
- Soil contaminated with heating oil
- Soil contaminated with vehicle drain oil
- Soil contaminated with other petroleum products

Specify: Analytical results indicate TPHD present at a concentration of approximately 200 ppm while TOG was detected in a range of 140 to 400 ppm. Lead present at 81 mg/Kg (TTLC), or 1.8 mg/L (STLC).

### 5. GENERATOR'S CERTIFICATION

I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omissions of composition or properties exist, that all known or suspected hazards have been disclosed, analytical results submitted are accurate and representative of the waste (per SW846), and that the waste is not a regulated hazardous waste by the USEPA, by an applicable State or Provincial authority, or by any applicable local authority, and does not contain PCBs regulated by TSCA (i.e., 40 CFR 761) or any Provincial authority.

#### GENERATOR'S AUTHORIZED SIGNATORY

DATE: November 15, 1999

PRINT NAME: Randall E. Nahas SIGNATURE: \_\_\_\_\_ TITLE: President

TELEPHONE: ( 510 ) 538-9600 FAX: ( 510 ) 881-7618



# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.  
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 612432

## Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: R.T. Nahas Company b. Generating Location: Former Tien Unocal 76 Service Station  
 c. Address: 20630 Patio Drive d. Address: 20405 Redwood Road  
Castro Valley, CA 94546 Castro Valley, CA 94546  
 e. Phone No.: (510) 538-9600 f. Phone No.: Not in Service

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: Randall E. Nahas, President h. Owner's Phone No.: \_\_\_\_\_

i. BFI WASTE CODE: 

C	A	4	0	5	1	1	1	9	9	9
---	---	---	---	---	---	---	---	---	---	---

 Containers: 

0	2	3	4	6
---	---	---	---	---

  
 j. Description of Waste: Soil contaminated with Diesel k. Quantity: 

2	2	0	0	0
---	---	---	---	---

 Units: 

P
---

 No.: 

1
---

 TYPE: 

T
---

  
Fuel and used Motor Oil

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Randall E. Nahas  
Generator Authorized Agent Name

Randall E. Nahas  
Signature

1	2	1	3	9	9
---	---	---	---	---	---

  
Shipment Date

UNITS	
P	- POUNDS
Y	- YARDS
M <sup>3</sup>	- CUBIC METERS
Y <sup>3</sup>	- CUBIC YARDS
O	- OTHER

## Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

### TRANSPORTER I

a. Name: George Maciel Trucking, Inc.  
 b. Address: 1550 Boscell  
Fremont, CA 94538  
 c. Driver Name/Title: JERRY MOORE  
PRINT/TITLE  
 d. Phone No.: (510) 226-9244 e. Truck No.: J1  
 f. Vehicle License No./State: 9A 50973  
 Acknowledgement of Receipt of Materials.  
 g. Jerry Moore

1	2	1	3	9	9
---	---	---	---	---	---

  
Driver Signature Shipment Date

### TRANSPORTER II

h. Name: \_\_\_\_\_  
 i. Address: \_\_\_\_\_  
 j. Driver Name/Title: \_\_\_\_\_  
PRINT/TITLE  
 k. Phone No.: \_\_\_\_\_ l. Truck No.: \_\_\_\_\_  
 m. Vehicle License No./State: \_\_\_\_\_  
 Acknowledgement of Receipt of Materials.  
 n. \_\_\_\_\_ 

--	--	--	--	--	--

  
Driver Signature Shipment Date

## Section III DESTINATION (Generator completes a-d, destination site completes e-f)

a. Site Name: BFI/Vasco Road Sanitary Landfill c. Phone No.: (925) 447-0491  
 b. Physical Address: 4001 N. Vasco Road d. Mailing Address: 4001 N. Vasco Road  
Livermore, CA 94550 Livermore, CA 94550

e. Discrepancy Indication Space: \_\_\_\_\_  
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. \_\_\_\_\_ 

12	1	3	9	9
----	---	---	---	---

  
Name of Authorized Agent Signature Receipt Date

## Section IV ASBESTOS (Generator complete a-d, f, g, Shipper\* completes e.)

a. Shippers\* Name: \_\_\_\_\_ b. Shippers\* Phone No.: \_\_\_\_\_  
 c. Shippers\* Address: \_\_\_\_\_  
 d. Shippers\* Special Handling Instructions and additional information: \_\_\_\_\_

CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.



# NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.  
If waste is NOT asbestos waste, complete only Sections I, II and III.

## No. 612433

### Section I GENERATOR (Generator completes all of Section I)

a. Generator Name: R.T. Nahas Company b. Generating Location: Former Tien Unocal 76 Service Station  
 c. Address: 20630 Patio Drive d. Address: 20405 Redwood Road  
Castro Valley, CA 94546 Castro Valley, CA 94546  
 e. Phone No.: (510) 538-9600 f. Phone No.: Not in Service

If owner of the generating facility differs from the generator, provide:

g. Owner's Name: \_\_\_\_\_ h. Owner's Phone No.: \_\_\_\_\_

i. BFI WASTE CODE: 

C	A	4	0	5	1	1	1	9	9	9
---	---	---	---	---	---	---	---	---	---	---

0	2	3	4	6
---	---	---	---	---

 Containers: \_\_\_\_\_

j. Description of Waste: Soil contaminated with Diesel k. Quantity: 

2	2	0	0	0
---	---	---	---	---

 Units: 

P
---

 No.: 

1
---

 TYPE: 

T
---

Fuel and used Motor Oil

TYPE	
DM	- METAL DRUM
DP	- PLASTIC DRUM
B	- BAG
BA	- 6 MIL. PLASTIC BAG or WRAP
T	- TRUCK
O	- OTHER

UNITS	
P	- POUNDS
Y	- YARDS
M <sup>3</sup>	- CUBIC METERS
Y <sup>3</sup>	- CUBIC YARDS
O	- OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Randall E. Nahas Signature: [Signature] Shipment Date: 

1	2	1	3	9	9
---	---	---	---	---	---

### Section II TRANSPORTER (Generator complete a-d; Transporter I complete e-g; Transporter II complete h-n)

**TRANSPORTER I**

a. Name: George Maciel Trucking, Inc.  
 b. Address: 41550 Boscell  
Fremont, CA 94538  
 c. Driver Name/Title: DERRY MOORE  
 d. Phone No.: (510) 226-9244 e. Truck No.: 31  
 f. Vehicle License No./State: 9A 50973  
 Acknowledgement of Receipt of Materials.  
 g. Driver Signature: [Signature] Shipment Date: 

1	2	1	3	9	9
---	---	---	---	---	---

**TRANSPORTER II**

h. Name: \_\_\_\_\_  
 i. Address: \_\_\_\_\_  
 j. Driver Name/Title: \_\_\_\_\_  
 k. Phone No.: \_\_\_\_\_ l. Truck No.: \_\_\_\_\_  
 m. Vehicle License No./State: \_\_\_\_\_  
 Acknowledgement of Receipt of Materials.  
 n. Driver Signature: \_\_\_\_\_ Shipment Date: 

--	--	--	--	--	--

### Section III DESTINATION (Generator completes a-d, destination site completes e-f.)

a. Site Name: BFI/Vasco Road Sanitary Landfill c. Phone No.: (925) 447-0491  
 b. Physical Address: 4001 N. Vasco Road d. Mailing Address: 4001 N. Vasco Road  
Livermore, CA 94550 Livermore, CA 94550

e. Discrepancy Indication Space: \_\_\_\_\_  
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent: \_\_\_\_\_ Signature: [Signature] Receipt Date: 

1	2	1	3	9	9
---	---	---	---	---	---

### Section IV ASBESTOS (Generator complete a-d, f, g, Shipper\* completes e.)

a. Shippers's\* Name: \_\_\_\_\_ b. Shippers's\* Phone No.: \_\_\_\_\_  
 c. Shippers's\* Address: \_\_\_\_\_  
 d. Shippers's Special Handling Instructions and additional information: \_\_\_\_\_

CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked, and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

# VASCO ROAD SANITARY LANDFILL No: 1182553

A DIVISION OF  BROWNING-FERRIS INDUSTRIES

4001 VASCO ROAD  
LIVERMORE, CA 94550  
(510) 447-0491

Date : 12-13-99 Time In: 10:13:14 Time Out: 10:32:14  
 Ticket # : A2155 CMS # : 1018068 LMS #: 1018068  
 Customer : LIFE SPRINGS ENVIRONMENTAL INC  
 Vehicle # : J1 Lic Plate:  
 ALA CASTRO VALLEY  
 Manifest # : 612432 PD #: Transporter: D  
 Source Cd : Generator : RTN RT NAWAS CO  
 Comment : Operator: MARK  
 Capacity : 20.00 yd Scale In #: Manual Scale Out #: 2  
 Gross Wt : 33.82 Tare Wt: 15.37 Net Wt: 17.65 t

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

Item	Descr	Actual	Bill Qty	\$/Unit	Extended
02346	SOIL	13.00	17.65 t	18.00000	317.70
Sub Total..... \$					317.70
Total..... \$					317.70

All children must remain in vehicles.  
Absolutely no salvaging allowed.

Niños deben de permanecer en los carros a todas horas.

No se permite llevar cosas del dompe absolutamente.

THANK YOU FOR YOUR BUSINESS!!!  
HAVE A GREAT DAY!!!

DRIVER 

DRIVER

# VASCO ROAD SANITARY LANDFILL No: 1182652

A DIVISION OF  BROWNING-FERRIS INDUSTRIES

4001 VASCO ROAD  
LIVERMORE, CA 94550  
(510) 447-0491

Date : 12-13-99 Time In: 13:16:45 Time Out: 13:16:45  
 Ticket # : A21264 CMS # : 1018068 LMS #: 1018068  
 Customer : LIFE SPRINGS ENVIRONMENTAL INC  
 Vehicle # : J1 Lic Plate:  
 ALA CASTRO VALLEY  
 Manifest # : 612433 PD #: Transporter: D  
 Source Cd : Generator : RTN RT NAWAS CO  
 Comment : Operator: MARK  
 Capacity : 20.00 yd Scale In #: 1 Scale Out #: Stored  
 Gross Wt : 33.82 Tare Wt: 15.37 Net Wt: 18.45 t

WARNING: Transporting any unauthorized hazardous waste to this facility for disposal is prohibited by law. Persons violating this prohibition are subject to civil and criminal prosecution.

Item	Descr	Actual	Bill Qty	\$/Unit	Extended
02346	SOIL	14.00	18.45 t	18.00000	332.10
Sub Total..... \$					332.10
Total..... \$					332.10

All children must remain in vehicles.  
Absolutely no salvaging allowed.

Niños deben de permanecer en los carros a todas horas.

No se permite llevar cosas del dompe absolutamente.

THANK YOU FOR YOUR BUSINESS!!!  
HAVE A GREAT DAY!!!

DRIVER 

# **APPENDIX D**

**CHAIN OF CUSTODY DOCUMENT  
and  
ANALYTICAL RESULTS  
for  
December 13, 1999 Soil Samples**

**Life Springs Environmental**  
3275 Stevens Creek Blvd., Suite 208  
San Jose, CA 95117-1148

Attn.: Mr. Kenneth Meleen

Project: 98041.2  
RT Nahas Co.

Dear Mr. Meleen,

Attached is our report for your samples received on Monday December 13, 1999  
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 January 12, 2000  
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

Sincerely,



Vincent Vancil

Diesel

<b>Life Springs Environmental</b>	☒ 3275 Stevens Creek Blvd., Suite 208 San Jose, CA 95117-1148
Attn: Kenneth Meleen	Phone: (408) 243-9292 Fax: (408) 243-9696
Project #: 98041.2	Project: RT Nahas Co.

### Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
WO-11	Soil	12/13/1999 09:10	1
SUMP-15	Soil	12/13/1999 09:25	2

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0223

To: Life Springs Environmental

Attn.: Kenneth Meleen

Test Method: 8015m

Prep Method: 3550/8015M

Diesel

Sample ID: <b>WO-11</b>	Lab Sample ID: <b>1999-12-0223-001</b>
Project: 98041.2 RT Nahas Co.	Received: 12/13/1999 16:02
Sampled: 12/13/1999 09:10	Extracted: 12/15/1999 09:00
Matrix: Soil	QC-Batch: 1999/12/15-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/17/1999 09:57	
<b>Surrogate(s)</b> o-Terphenyl	80.2	60-130	%	1.00	12/17/1999 09:57	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096



# CHROMALAB, INC.

Submission #: 1999-12-0223

Environmental Services (SDB)

To: Life Springs Environmental

Test Method: 8015m

Attn.: Kenneth Meleen

Prep Method: 3550/8015M

Diesel

Sample ID: <b>SUMP-15</b>	Lab Sample ID: <b>1999-12-0223-002</b>
Project: 98041.2 RT Nahas Co.	Received: 12/13/1999 16:02
Sampled: 12/13/1999 09:25	Extracted: 12/15/1999 09:00
Matrix: Soil	QC-Batch: 1999/12/15-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	690	2.0	mg/Kg	2.00	12/20/1999 14:01	ndp
<i>Surrogate(s)</i> o-Terphenyl	80.8	60-130	%	2.00	12/20/1999 14:01	

1220 Quarry Lane \* Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

To: **Life Springs Environmental**  
Attn.: Kenneth Meleen

Test Method: 8015m  
Prep Method: 3550/8015M

**Batch QC Report**  
Diesel

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/12/15-03.10</b>
MB: 1999/12/15-03.10-003		Date Extracted: 12/15/1999 09:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	12/16/1999 14:53	
<b>Surrogate(s)</b> o-Terphenyl	76.0	60-130	%	12/16/1999 14:53	

Environmental Services (SDB)

To: Life Springs Environmental

Test Method: 8015m

Attn: Kenneth Meleen

Prep Method: 3550/8015M

## Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 1999/12/15-03.10
LCS: 1999/12/15-03.10-001	Extracted: 12/15/1999 09:00	Analyzed: 12/16/1999 13:58
LCSD: 1999/12/15-03.10-002	Extracted: 12/15/1999 09:00	Analyzed: 12/16/1999 14:36

Compound	Conc. [ mg/Kg ]		Exp.Conc. [ mg/Kg ]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	32.3	32.1	41.7	41.7	77.5	77.0	0.6	60-130	25		
<b>Surrogate(s)</b>											
o-Terphenyl	18.5	17.7	20.0	20.0	92.5	88.5		60-130			

To: **Life Springs Environmental**

Attn: Kenneth Meleen

Test Method: 8015m

Prep Method: 3550/8015M

## Legend & Notes

Diesel

## Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Gas/BTEX and MTBE

**Life Springs Environmental**

✉ 3275 Stevens Creek Blvd., Suite 208  
San Jose, CA 95117-1148

Attn: Kenneth Meleen

Phone: (408) 243-9292 Fax: (408) 243-9696

Project #: 98041.2

Project: RT Nahas Co.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
WO-11	Soil	12/13/1999 09:10	1
SUMP-15	Soil	12/13/1999 09:25	2

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0223

To: **Life Springs Environmental**

Test Method: 8020  
8015M

Attn.: Kenneth Meleen

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: <b>WO-11</b>	Lab Sample ID: <b>1999-12-0223-001</b>
Project: 98041.2 RT Nahas Co.	Received: 12/13/1999 16:02
Sampled: 12/13/1999 09:10	Extracted: 12/20/1999 14:03
Matrix: Soil	QC-Batch: 1999/12/20-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	12/20/1999 14:03	
Benzene	ND	0.0050	mg/Kg	1.00	12/20/1999 14:03	
Toluene	ND	0.0050	mg/Kg	1.00	12/20/1999 14:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	12/20/1999 14:03	
Xylene(s)	ND	0.0050	mg/Kg	1.00	12/20/1999 14:03	
MTBE	ND	0.0050	mg/Kg	1.00	12/20/1999 14:03	
<b>Surrogate(s)</b>						
Trifluorotoluene	100.2	53-125	%	1.00	12/20/1999 14:03	
4-Bromofluorobenzene-FID	90.8	58-124	%	1.00	12/20/1999 14:03	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

To: Life Springs Environmental

Test Method: 8020  
8015M

Attn.: Kenneth Meleen

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: <b>SUMP-15</b>	Lab Sample ID: <b>1999-12-0223-002</b>
Project: 98041.2 RT Nahas Co.	Received: 12/13/1999 16:02
Sampled: 12/13/1999 09:25	Extracted: 12/20/1999 14:34
Matrix: Soil	QC-Batch: 1999/12/20-01.03

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	6.3	1.0	mg/Kg	1.00	12/20/1999 14:34	g
Benzene	ND	0.0050	mg/Kg	1.00	12/20/1999 14:34	
Toluene	ND	0.0050	mg/Kg	1.00	12/20/1999 14:34	
Ethyl benzene	0.14	0.0050	mg/Kg	1.00	12/20/1999 14:34	
Xylene(s)	0.25	0.0050	mg/Kg	1.00	12/20/1999 14:34	
MTBE	ND	0.0050	mg/Kg	1.00	12/20/1999 14:34	
<b>Surrogate(s)</b>						
Trifluorotoluene	77.0	53-125	%	1.00	12/20/1999 14:34	
Trifluorotoluene-FID	83.0	53-125	%	1.00	12/20/1999 14:34	

To: Life Springs Environmental

Test Method: 8020  
8015M

Attn.: Kenneth Meleen

Prep Method: 5030

**Batch QC Report**  
Gas/BTEX and MTBE

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/12/20-01.03</b>
MB: 1999/12/20-01.03-001		Date Extracted: 12/20/1999 04:15

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	12/20/1999 04:15	
Benzene	ND	0.0050	mg/Kg	12/20/1999 04:15	
Toluene	ND	0.0050	mg/Kg	12/20/1999 04:15	
Ethyl benzene	ND	0.0050	mg/Kg	12/20/1999 04:15	
Xylene(s)	ND	0.0050	mg/Kg	12/20/1999 04:15	
MTBE	ND	0.0050	mg/Kg	12/20/1999 04:15	
<b>Surrogate(s)</b>					
Trifluorotoluene	112.2	53-125	%	12/20/1999 04:15	
4-Bromofluorobenzene-FID	113.6	58-124	%	12/20/1999 04:15	



Environmental Services (SDB)

To: **Life Springs Environmental**

Test Method: 8020  
8015M

Attn: Kenneth Meleen

Prep Method: 5030

## Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 1999/12/20-01.03	
LCS:	1999/12/20-01.03-002	Extracted:	12/20/1999 13:00	Analyzed:	12/20/1999 13:00
LCSD:	1999/12/20-01.03-003	Extracted:	12/20/1999 05:17	Analyzed:	12/20/1999 05:17

Compound	Conc. [ mg/Kg ]		Exp.Conc. [ mg/Kg ]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.492	0.432	0.500	0.500	98.4	86.4	13.0	75-125	35		
Benzene	0.0802	0.104	0.1000	0.1000	80.2	104.0	25.8	77-123	35		
Toluene	0.0808	0.100	0.1000	0.1000	80.8	100.0	21.2	78-122	35		
Ethyl benzene	0.0793	0.101	0.1000	0.1000	79.3	101.0	24.1	70-130	35		
Xylene(s)	0.239	0.301	0.300	0.300	79.7	100.3	22.9	75-125	35		
<b>Surrogate(s)</b>											
Trifluorotoluene	450	561	500	500	90.0	112.2		53-125			
4-Bromofluorobenzene-Fl	509	434	500	500	101.8	86.8		58-124			

To: Life Springs Environmental

Test Method: 8015M  
8020

Attn: Kenneth Meleen

Prep Method: 5030

## Legend & Notes

Gas/BTEX and MTBE

## Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Petroleum Oil & Grease

**Life Springs Environmental**

✉ 3275 Stevens Creek Blvd., Suite 208  
San Jose, CA 95117-1148

Attn: Kenneth Meleen

Phone: (408) 243-9292 Fax: (408) 243-9696

Project #: 98041.2

Project: RT Nahas Co.

**Samples Reported**

Sample ID	Matrix	Date Sampled	Lab #
WO-11	Soil	12/13/1999 09:10	1
SUMP-15	Soil	12/13/1999 09:25	2

Environmental Services (SDB)

To: **Life Springs Environmental**

Test Method: 5520 E & F

Attn.: Kenneth Meleen

Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>WO-11</b>	Lab Sample ID: <b>1999-12-0223-001</b>
Project: 98041.2 RT Nahas Co.	Received: 12/13/1999 16:02
Sampled: 12/13/1999 09:10	Extracted: 12/20/1999
Matrix: Soil	QC-Batch: 1999/12/20-01.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	1.00	12/20/1999	

# CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-12-0223

To: **Life Springs Environmental**  
Attn.: Kenneth Meleen

Test Method: 5520 E & F  
Prep Method: 5520 E & F

Petroleum Oil & Grease

Sample ID: <b>SUMP-15</b>	Lab Sample ID: <b>1999-12-0223-002</b>
Project: 98041.2 RT Nahas Co.	Received: 12/13/1999 16:02
Sampled: 12/13/1999 09:25	Extracted: 12/20/1999
Matrix: Soil	QC-Batch: 1999/12/20-01.23

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Oil & Grease (Petroleum)	1200	50	mg/Kg	1.00	12/20/1999	

1220 Quarry Lane \* Pleasanton, CA 94566-4756  
Telephone: (925) 484-1919 \* Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Life Springs Environmental**  
Attn.: Kenneth Meleen

Test Method: 5520 E & F  
Prep Method: 5520 E & F

**Batch QC Report**  
Petroleum Oil & Grease

<b>Method Blank</b>	<b>Soil</b>	<b>QC Batch # 1999/12/20-01.23</b>
MB: 1999/12/20-01.23-001		Date Extracted: 12/20/1999

Compound	Result	Rep. Limit	Units	Analyzed	Flag
Oil & Grease (Petroleum)	ND	50	mg/Kg	12/20/1999	

Environmental Services (SDB)

To: **Life Springs Environmental**  
 Attn: Kenneth Meleen

Test Method: 5520 E & F  
 Prep Method: 5520 E & F

**Batch QC Report**

Petroleum Oil & Grease

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 1999/12/20-01.23	
LCS:	1999/12/20-01.23-002	Extracted:	12/20/1999	Analyzed:	12/20/1999
LCSD:	1999/12/20-01.23-003	Extracted:	12/20/1999	Analyzed:	12/20/1999

Compound	Conc. [ mg/Kg ]		Exp.Conc. [ mg/Kg ]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Oil & Grease (Petroleum)	394	408	400	400	98.5	102.0	3.5	80-120	20		

# CHROMALAB, INC.

1220 Quarry Lane • Pleasanton, California 94566-4758  
510/484-1919 • Facsimile 510/484-1098

99120223

Reference #: 49512  
Chain of Custody

Environmental Services (SDB) (DOIS 1094)

DATE 12/13/99 PAGE 1 OF 1

PROJ MGR Kenneth L. Meleen  
COMPANY Life Springs Environmental, Inc.  
ADDRESS 3275 Stevens Creek Blvd., #208  
San Jose, CA 95117

SAMPLES (SIGNATURE) Kenneth L. Meleen (PHONE NO.) (408) 243-9292  
(FAX NO.) (408) 243-9696

## ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH (EPA 8015, 8020) <input checked="" type="checkbox"/> Gas w/ <input type="checkbox"/> Hex plate	PURGEABLE AROMATICS STEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) Dioxins, O.Dioxin, O.M.O.	PURGEABLE HALOCARBONS, (BVOCs) (EPA 8016)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMI-VOLATILES (EPA 8270)	TOTAL OIL AND GREASE (SM 8520 B + F, E + F)	<input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8060)	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8510	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 8016/7470/7471)	TOTAL LEAD	D.W.E.T. (STLC) DTCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (2.4 hr hold time for H2O)	NUMBER OF CONTAINERS	
WO-11	12/13/99	0910	Soil	Ice	X		X					X										1
SUMP-15	12/13/99	0915	Soil	Ice	X		X					X										1

**PROJECT INFORMATION**

PROJECT NAME: RT Nolas Co.  
PROJECT NUMBER: 98041.2  
P.O. #: 65E-204-99

**SAMPLE RECEIPT**

TOTAL NO. OF CONTAINERS: 2  
HEAD SPACE: \_\_\_\_\_  
TEMPERATURE: \_\_\_\_\_  
CONFORMS TO RECORD: \_\_\_\_\_

TAT: STANDARD 3-DAY    24    48    72    OTHER

Report:  Routine  Level 2  Level 3  Level 4  Electronic Report

SPECIAL INSTRUCTIONS/COMMENTS:

**RELINQUISHED BY 1**  
Signature: Kenneth L. Meleen 15:30  
Printed Name: Kenneth L. Meleen 12/13/99  
Company: Life Springs Environmental Inc.

**RELINQUISHED BY 2**  
Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Company: \_\_\_\_\_

**RELINQUISHED BY 3**  
Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Company: \_\_\_\_\_

**RECEIVED BY 1**  
Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Company: \_\_\_\_\_

**RECEIVED BY 2**  
Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Company: \_\_\_\_\_

**RECEIVED BY (LABORATORY) 3**  
Signature: Caparas 15:30  
Printed Name: CRISTINA 12/13/99  
Company: \_\_\_\_\_



# **APPENDIX E**

**BSK & ASSOCIATES**

**SOIL COMPACTION TESTING REPORT**



1181 Quarry Lane, Building 300  
Pleasanton, CA 94566  
(925) 462-4000 • FAX (925) 462-6283

December 31, 1999

BSK JOB NO. 04-20-0571

Mr. Kenneth L. Meleen  
Life Spring Environmental  
3275 Stevens Creek Boulevard, #208  
San Jose, California 95117

Subject: **SUMMARY REPORT**  
Compaction Testing Services  
Remediation Phase  
*Tien's Unocal Station*  
20405 Redwood Road  
Castro Valley, California  
(Period Covered: November 1998 and December 1999 )

Dear Mr. Meleen:

At your request and authorization, we have performed earthwork testing and observation services during the remediation phase for the subject project.

Our activities were coordinated by Mr. Kenneth L. Meleen who was apprised of the results at the time of testing. Based on our observations and nuclear density test results, the top 3 to 5 feet of the excavation backfill tested, met the required minimum relative compaction of 90 percent.

Enclosed are summaries of our daily field activities and results of field compaction and laboratory tests performed for this project.

Respectfully submitted,  
**BSK & Associates**

Alex Y. Eskandari, P.E.  
Project Manager  
C.E. 38101

AYE:hhc  
(DOC\GEO\DATA\RPTS\0420 571.R#1)

Enclosures:  
Summaries of Field Activities and Test Results  
Terms and Limitations

Distribution:  
**Life Spring Environmental**  
Attn: Mr. Kenneth L. Meleen (2 copies)

**SUMMARY REPORT**

Compaction Testing Services

Remediation Phase

*Tien's Unocal Station*

20405 Redwood Road

Castro Valley, California

(Period Covered: November 1998 and December 1999 )

BSK Job No. 04-20-0571

December 31, 1999

Enclosure 1

Page 1

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**SUMMARY OF FIELD ACTIVITIES**

---

Obtained a bulk sample of imported fill from the site stockpile and transported it to our laboratory for a moisture/density curve determination.

---

**SUMMARY OF LABORATORY TEST DATA**

Test:	Moisture/Density Curve Determination
Method:	ASTM D 1557 (6" Mold)
Date Sampled:	November 25, 1998
Date Tested:	November 30, 1998
Sample Location:	Site Stockpile
Material Description:	Gray Silty Gravel (Imported Backfill)
Maximum Dry Density:	139.5 p.c.f.
Optimum Moisture:	7.5 percent

---

**TECHNICIAN:** R. Greguras

**WORK PERFORMED ON:** Wednesday, 11/25/98

**TIME:** 2 Hours

**FIELD REPRESENTATIVE:** K. Meleen

---

**SUMMARY REPORT**

Compaction Testing Services

Remediation Phase

*Tien's Unocal Station*

20405 Redwood Road

Castro Valley, California

(Period Covered: November 1998 and December 1999 )

BSK Job No. 04-20-0571

December 31, 1999

Enclosure 1

Page 2

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**SUMMARY OF FIELD ACTIVITIES**

---

A bulk sample of soil was delivered to our laboratory by Mr. Kenneth L. Meleen of Life Springs Environmental on 12/08/99 for a moisture/density curve determination.

---

**SUMMARY OF LABORATORY TEST DATA**

Test:	Moisture/Density Curve Determination
Method:	ASTM D 1557 (4" Mold)
Date Sampled:	December 8, 1999
Date Tested:	December 8, 1999
Sample Location:	Site Stockpile ("Clean" Excavation Spoil)
Material Description:	Brown Silty Gravelly Sand
Maximum Dry Density:	124.0 p.c.f.
Optimum Moisture:	13.0 percent

---

**SUMMARY REPORT**

Compaction Testing Services

Remediation Phase

Tien's Unocal Station

20405 Redwood Road

Castro Valley, California

(Period Covered: November 1998 and December 1999 )

BSK Job No. 04-20-0571

December 31, 1999

Enclosure 1

Page 3

**NUCLEAR FIELD DENSITY TESTS RESULTS**

<b>Test No.</b>	<b>Test Location</b>	<b>Depth Below Existing Adjacent Grade (Feet)</b>	<b>Field Moisture (Percent)</b>	<b>Maximum Dry Density (pcf)</b>	<b>Field Compaction (Percent)</b>	<b>Required Compaction (Percent)</b>
<b><u>Gas Storage Tank Removal Excavation Backfill (Imported Fill)</u></b>						
1	See Attached Site Plan	2.0	9.5	139.4	94	90
2	" "	2.0	8.8	139.5	94	90
<b><u>Pit Excavation Backfill - Waste Oil Tank and Dispenser Area (On-Site Soil)</u></b>						
3	See Attached Site Plan	5.0	12.2	124.0	92	90
4	" "	5.0	13.4	124.0	85	90
4R1*	" "	5.0	12.0	124.0	90	90
5	" "	3.0	12.0	124.0	91	90
6	" "	3.0	13.1	124.0	91	90
<b><u>Gas Storage Tank Removal Excavation Backfill (On-Site Soil)</u></b>						
7	See Attached Site Plan	0.0	10.9	124.0	90	90
8	" "	0.0	10.1	124.0	93	90

\*Denotes Retest

(Date Work Performed: Monday, 12/13/99)

Continued on next page

**BSK**

**SUMMARY REPORT**

Compaction Testing Services

Remediation Phase

Tien's Unocal Station

20405 Redwood Road

Castro Valley, California

(Period Covered: November 1998 and December 1999 )

BSK Job No. 04-20-0571

December 31, 1999

Enclosure 1

Page 4

**NUCLEAR FIELD DENSITY TESTS RESULTS****SUMMARY OF FIELD ACTIVITIES**

Test No.	Test Location	Depth Below Existing Grade (Feet)	Field Moisture (Percent)	Maximum Dry Density (pcf)	Field Compaction (Percent)	Required Compaction (Percent)
<b><u>Pit Excavation Backfill - Waste Oil Tank and Dispenser Areas (On-Site Soil)</u></b>						
9	See Attached Site Plan	0.0	10.5	124.0	88	90
9R1*	" "	0.0	13.1	124.0	90	90

\*Denotes Retest

**ACTIVITIES:** Observed backfilling of the top 3 to 5 feet of the excavations for tank and dispenser removal and performed nuclear density tests and a *retest* on the backfill materials to monitor degree of compaction.

**TECHNICIAN:** G. Minerales**WORK PERFORMED ON:** Monday, 12/13/99**TIME:** 4 Hours**FIELD REPRESENTATIVE:** K. Meleen

**SUMMARY REPORT**

Compaction Testing Services

Remediation Phase

*Tien's Unocal Station*

20405 Redwood Road

Castro Valley, California

(Period Covered: November 1998 and December 1999 )

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BSK Job No. 04-20-0571

December 31, 1999

Enclosure 2

Terms and Limitations

Compaction test results reported herein provide an indication of the degree of compaction of materials for specific, prescribed locations but do not necessarily reflect the overall character of the prepared materials. Test results should be considered accurate only at the locations and depths indicated. All results are submitted to the project engineer and representing job inspector for their review and evaluation.

Interpretation of test results as to the adequacy of compacted materials remains solely the responsibility of the project engineer and no engineering evaluations, unless specifically stated, are provided herein as to the adequacy of compacted material.

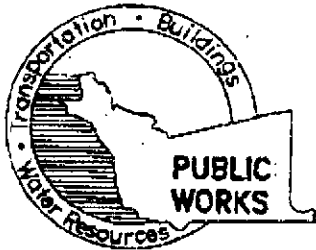
Respectfully submitted,  
**BSK & Associates**

**BSK**

# **APPENDIX F**

**ALAMEDA COUNTY PUBLIC WORKS DEPARTMENT  
MONITORING WELL CLOSURE PERMIT NO. 99WR702**





**COUNTY OF ALAMEDA  
PUBLIC WORKS AGENCY**  
951 Turner Court, Room 300  
Hayward, CA 94545-2651

**FAX TRANSMITTAL**

**TO:** Kenneth Meleen  
Life Springs  
Environmental Inc.

**DATE:** 12/9/99

**FAX NO.:** 408-243-9696

**TRANSMITTING THE FOLLOWING:**

**TITLE/DESCRIPTION**

Drilling Permit 99WR702 and destruction  
requirements -

3 **TOTAL PAGES INCLUDING THIS SHEET.**

**FROM WATER RESOURCES**

**NAME:** Marlon Magallanes/Cindy Hutchinson **TEL:** (510) 670-5248 **FAX:** (510) 670-5262

**E-MAIL:** Wrebcc@acwpa.mail.co.alameda.ca.us-Cindyh@acwpa.mail.co.alameda.ca.us

**IF YOU EXPERIENCE PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL US.**

**REMARKS:**

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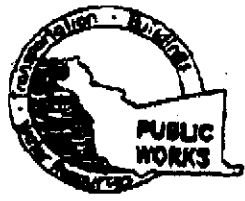
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# ALAMEDA COUNTY PUBLIC WORKS AGENCY

**WATER RESOURCES SECTION**  
951 TURNER COURT, SUITE 300, MAYWARD, CA 94543-2651  
PHONE (910) 676-3348 MARLON MAGALLANES/CINDY HUTCHINSON  
FAX (910) 676-5342

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT Former Tien Ungeal Service Station  
30405 Redwood Road  
Castro Valley, CA 94546

PERMIT NUMBER 99WR702  
WELL NUMBER \_\_\_\_\_  
APN \_\_\_\_\_

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT  
Name R.T. Nolas Co.  
Address 20430 Kato House Phone (510) 539-9600  
City Castro Valley Zip 94546

APPLICANT  
Name Life Springs Environmental, Inc.  
(Kearney, Alameda, CA) Fax (925) 233-9296  
Address 2110 Stevens Creek Blvd Phone (925) 233-9292  
City San Jose Zip 95117

TYPE OF PROJECT  
Well Construction  Geotechnical Investigation   
Cathodic Protection  General   
Water Supply  Contamination   
Monitoring  Well Destruction

PROPOSED WATER SUPPLY WELL USE  
New Domestic  Replacement Domestic   
Municipal  Irrigation   
Industrial  Other

DRILLING METHOD:  
Mud Rotary  Air Rotary  Auger   
Cable  Other  Pressure Grout

DRILLER'S LICENSE NO. C-57 - 404288  
Exploration Geoservices, Inc.

WELL PROJECTS  
Drill Hole Diameter 8 in. Maximum Depth 25 ft.  
Casing Diameter 8 in. Number MW-4  
Surface Seal Depth \_\_\_\_\_ ft.

GEOTECHNICAL PROJECTS  
Number of Borings \_\_\_\_\_ Maximum Depth \_\_\_\_\_ ft.  
Hole Diameter \_\_\_\_\_ in.

ESTIMATED STARTING DATE Week of 12/13/99  
ESTIMATED COMPLETION DATE No later than 12/23/99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-6E.

APPLICANT'S SIGNATURE Hermit L. Nelson DATE 12/09/99  
Licensed Civil Engineer No. C17487  
License Expires 06/30/2001

- A. GENERAL
  - 1. A permit application should be submitted to us to arrive at the ACPWA office five days prior to proposed starting date.
  - 2. Submit to ACPWA within 90 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
  - 3. Permit is void if project not begun within 90 days of approval date.

- B. WATER SUPPLY WELLS
  - 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
  - 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

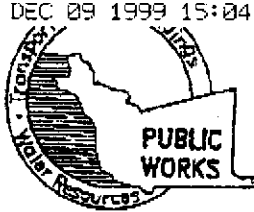
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
  - 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
  - 2. Minimum seal depth for monitoring wells is the maximum depth accessible or 20 feet.

- D. GEOTECHNICAL
  - Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings.

- E. CATHODIC:
  - Fill hole above anode zone with concrete placed by tremie.

- F. WELL DESTRUCTION
  - See attached.
- G. SPECIAL CONDITIONS

APPROVED Frank L. Codd DATE 12-9-99



# ALAMEDA COUNTY PUBLIC WORKS AGENCY

## WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651

PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262  
(510) 670-5248 ALVIN KAN

### WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE For Monitoring Well at Clean or Contaminated Site

#### Destruction Requirements:

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.
2. Sound the well as deeply as practicable and record for your report.
3. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.
4. After the seal has set, backfill the remaining hole with compacted material.